Catalog
2017-2018

100 Campus Drive
Weatherford, Oklahoma 73096
Phone: (580) 772-6611  FAX: (580) 774-3795
Web site: http://www.swosu.edu

CURRICULA CHANGES

The University reserves the right to recommend changes in curricula, degree requirements, course offerings, and all academic regulations at any time. All changes must be approved by the Regional University System of Oklahoma (RUSO) and the Oklahoma State Regents for Higher Education (OSRHE). Certain program modifications reflected in this publication are pending approval. When a program has undergone change, the effective date of the revised program will be indicated.

FEE STRUCTURE

Fees listed in this catalog are those in effect at the time of publication and are subject to change. The current tuition/fee schedule may be viewed at http://www.swosu.edu/resources/tuition.asp.
The Americans with Disabilities Act Amendments Act (ADAAA) requires the provision of "reasonable accommodations" to those qualified individuals with disabilities by providing equal, non-discriminatory program access in the academic setting.

Students need to take the verifying documentation to the Dean of Students Office, where it will be kept confidential and private to the extent possible. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability or disabilities. It is the student's responsibility to request documentation from such professionals, and to request a record of accommodations received at any other educational institution. Appropriate documentation for learning disabilities should be provided. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner after admission to allow time for the development and arrangement of appropriate accommodations. In some cases, as when books on tape or sign language interpreters need to be requested, documentation should be provided several weeks prior to the beginning of the semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University's documentation guidelines are on the Dean of Students' website or office, room 214, Gen. Thomas P. Stafford Center, (580) 774-3767.

Please note: Students should be admitted to SWOSU before seeking accommodations from the Dean of Students.

AFFIRMATIVE ACTION COMPLIANCE STATEMENT

Southwestern Oklahoma State University, to the extent required by law, is in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans With Disabilities Act Amendments Act of 1990, the American with Disability Act as Amended of 2009, and other federal laws and regulations does not discriminate on the basis of race, color, national origin, sex, age, religion, disability, gender, sexual orientation, genetic information or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, housing, and educational service.
## University and Program Accreditations

<table>
<thead>
<tr>
<th>ACCREDITING ORGANIZATION</th>
<th>PHONE NUMBER/FAX NUMBER/WEB SITE/E-MAIL ADDRESS</th>
<th>ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCREDITATION COUNCIL FOR PHARMACY EDUCATION</td>
<td>Phone: (312) 664-3575 FAX: (312) 664-6652</td>
<td>20 North Clark Street, Suite 2500 Chicago, Illinois 60602-5109</td>
</tr>
<tr>
<td>ACCREDITATION COUNCIL FOR OCCUPATIONAL THERAPY EDUCATION</td>
<td>Phone: (312) 652-2682 FAX: (312) 652-7711 E-mail: <a href="mailto:accred@ota.org">accred@ota.org</a></td>
<td>P.O. Box 31220 Bethesda, Maryland 20824-1220</td>
</tr>
<tr>
<td>ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS</td>
<td>Phone: (703) 917-9503 E-mail: <a href="mailto:info@abhes.org">info@abhes.org</a></td>
<td>7777 Leesburg Pike, Suite 730 Falls Church, Virginia 22043</td>
</tr>
<tr>
<td>AMERICAN CHEMICAL SOCIETY COMMITTEE ON PROFESSIONAL TRAINING</td>
<td>Phone: (202) 872-4589 FAX: (202) 872-6066 Web site: <a href="http://www.acs.org">http://www.acs.org</a> E-mail: <a href="mailto:cpt@acs.org">cpt@acs.org</a></td>
<td>1155 16th Street, N.W. Washington, D.C. 20036</td>
</tr>
<tr>
<td>AMERICAN MUSIC THERAPY ASSOCIATION, INC.</td>
<td>Phone: (312) 589-3300 FAX: (312) 589-5175 Web site: <a href="http://www.musictherapy.org">http://www.musictherapy.org</a> E-mail: <a href="mailto:amta@musictherapy.org">amta@musictherapy.org</a></td>
<td>8455 Colesville Road Suite 1000 Silver Spring, Maryland 20910</td>
</tr>
<tr>
<td>ASSOCIATION OF TECHNOLOGY, MANAGEMENT AND APPLIED ENGINEERING (ATMAE)</td>
<td>Phone: (630) 433-4514 FAX: (630) 563-9181 Web site: <a href="http://www.atmae.org">http://www.atmae.org</a> E-mail: <a href="mailto:atm@atmae.org">atm@atmae.org</a></td>
<td>275 N. York Street, Suite 401 Elmhurst, Illinois 60126</td>
</tr>
<tr>
<td>COMMISSION ON ACCREDITATION IN PHYSICAL THERAPY EDUCATION</td>
<td>Phone: (703) 684-APTA (2782) FAX: (703) 684-7343 E-mail: <a href="http://www.apta.org">http://www.apta.org</a></td>
<td>1111 North Fairfax Street Alexandria, Virginia 22314</td>
</tr>
<tr>
<td>COMMISSION ON ACCREDITATION OF ATHLETIC TRAINING EDUCATION</td>
<td>Phone: (312) 733-9700 Web site: <a href="http://www.caate.net">http://www.caate.net</a> FAX: (512) 733-9701</td>
<td>2201 Double Creek Drive, Suite 5006 Round Rock, Texas 78664</td>
</tr>
<tr>
<td>INTERNATIONAL ASSEMBLY FOR COLLEGIATE BUSINESS EDUCATION</td>
<td>Phone: (913) 631-3009 FAX: (913) 631-9154 Web site: <a href="http://www.iacbe.net">http://www.iacbe.net</a> E-mail: <a href="mailto:iacbe@iacbe.org">iacbe@iacbe.org</a></td>
<td>P.O. Box 25217 Overland Park, Kansas 66225</td>
</tr>
<tr>
<td>JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)</td>
<td>Phone: (312) 704-5300 FAX: (312) 704-5304</td>
<td>20 North Wacker Drive, Suite 900 Chicago, Illinois 60606-2901</td>
</tr>
<tr>
<td>NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC</td>
<td>Phone: (703) 437-0700 FAX: (703) 437-6312 Web site: <a href="http://www.nasmarts-accredit.org">http://www.nasmarts-accredit.org</a> E-mail: <a href="mailto:info@arts-accredit.org">info@arts-accredit.org</a></td>
<td>11250 Roger Bacon Drive, Suite 21 Reston, Virginia 20190</td>
</tr>
<tr>
<td>COUNCIL FOR THE ACCREDITATION OF EDUCATOR PREPARATION</td>
<td>Phone: (202) 233-0077</td>
<td>1140 19th Street, N.W. Suite 400 Washington, D.C. 20036</td>
</tr>
<tr>
<td>ACCREDITATION COMMISSION FOR EDUCATION IN NURSING, INC.</td>
<td>Phone: (404) 975-5000 FAX: (404) 975-5020 Web site: <a href="http://www.acenursing.org">http://www.acenursing.org</a></td>
<td>3343 Peachtree Road NE, Suite 850 Atlanta, Georgia 30326</td>
</tr>
<tr>
<td>OKLAHOMA BOARD OF NURSING</td>
<td>Phone: (405) 962-1800 FAX: (405) 962-1821 Web site: <a href="https://nursing.ok.gov">https://nursing.ok.gov</a></td>
<td>2915 N. Classen Boulevard, Suite 524 Oklahoma City, Oklahoma 73106</td>
</tr>
<tr>
<td>OKLAHOMA COMMISSION FOR TEACHER PREPARATION (OCTP)</td>
<td>Phone: (405) 525-2612 FAX: (405) 525-0373 Web site: <a href="http://www.octp.org">http://www.octp.org</a> E-mail: <a href="mailto:octp@octp.org">octp@octp.org</a></td>
<td>4545 N. Lincoln Blvd., Suite 275 Oklahoma City, Oklahoma 73105-3418</td>
</tr>
<tr>
<td>OKLAHOMA COUNCIL ON LAW ENFORCEMENT, EDUCATION AND TRAINING</td>
<td>Phone: (405) 239-5100 FAX: (580) 310-9143 Web site: <a href="http://www.ok.gov/cleet/">http://www.ok.gov/cleet/</a></td>
<td>2401 Egypt Road Ada, Oklahoma 74820-0669</td>
</tr>
<tr>
<td>OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION</td>
<td>Phone: (405) 225-9100 FAX: (405) 225-9235 Web site:<a href="http://www.okhighered.org/">http://www.okhighered.org/</a></td>
<td>655 Research Parkway, Suite 200 Oklahoma City, Oklahoma 73104</td>
</tr>
<tr>
<td>ENGINEERING TECHNOLOGY ACCREDITATION COMMISSION (ETAC) OF THE ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY (ABET)</td>
<td>Phone: (410) 347-7700 FAX: (410) 625-2238 Web site: <a href="http://www.abet.org">http://www.abet.org</a></td>
<td>415 North Charles Street Baltimore, Maryland 21201</td>
</tr>
<tr>
<td>THE HIGHER LEARNING COMMISSION NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS (NCA)</td>
<td>Phone: (800) 621-7440 FAX: (312) 263-7462</td>
<td>230 South LaSalle Street, Suite 7-500 Chicago, Illinois 60604</td>
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</table>
### Southwestern Oklahoma State University
#### Academic Calendar 2017-2018

**Fall Semester 2017**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 16</td>
<td>Wednesday</td>
<td>New Student Orientation; New Faculty Orientation</td>
</tr>
<tr>
<td>August 17</td>
<td>Thursday</td>
<td>New Faculty Orientation (continued)</td>
</tr>
<tr>
<td>August 18</td>
<td>Friday</td>
<td>Faculty Workshop; Enrollment for students who did not pre-enroll</td>
</tr>
<tr>
<td>August 21</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork begins</td>
</tr>
<tr>
<td>August 25</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to add classes</td>
</tr>
<tr>
<td>September 1</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to drop a class or totally withdraw for a refund</td>
</tr>
<tr>
<td>September 4</td>
<td>Monday</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>October 13</td>
<td>Friday</td>
<td>1st 8 week classes end</td>
</tr>
<tr>
<td>October 16</td>
<td>Monday</td>
<td>2nd 8 week classes begin</td>
</tr>
<tr>
<td>October 18</td>
<td>Wednesday</td>
<td>(10:00 p.m.) Fall break begins</td>
</tr>
<tr>
<td>October 23</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork begins</td>
</tr>
<tr>
<td>November 3</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to drop with a guaranteed &quot;W&quot; and last day to add CAI courses</td>
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<tr>
<td>November 21</td>
<td>Tuesday</td>
<td>(10:00 p.m.) Thanksgiving vacation begins</td>
</tr>
<tr>
<td>November 27</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork resumes</td>
</tr>
<tr>
<td>December 6</td>
<td>Wednesday</td>
<td>(4:30 p.m.) Last day to drop with Instructor permission</td>
</tr>
<tr>
<td>December 11-15</td>
<td>Monday - Friday</td>
<td>Final exams</td>
</tr>
<tr>
<td>December 15</td>
<td>Friday</td>
<td>(10:00 p.m.) Semester ends and semester break begins</td>
</tr>
<tr>
<td>December 18</td>
<td>Monday</td>
<td>(5:00 p.m.) Final grades due</td>
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**Spring Semester 2018**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
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<tr>
<td>January 5</td>
<td>Friday</td>
<td>Enrollment for students who did not pre-enroll</td>
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<tr>
<td>January 8</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork begins</td>
</tr>
<tr>
<td>January 12</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to add classes</td>
</tr>
<tr>
<td>January 15</td>
<td>Monday</td>
<td>Martin Luther King Jr. Day (Holiday)</td>
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<tr>
<td>January 22</td>
<td>Monday</td>
<td>(4:30 p.m.) Last day to drop a class or totally withdraw for a refund</td>
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<tr>
<td>March 2</td>
<td>Friday</td>
<td>1st 8 week classes end</td>
</tr>
<tr>
<td>March 5</td>
<td>Monday</td>
<td>2nd 8 week classes begin</td>
</tr>
<tr>
<td>March 16</td>
<td>Friday</td>
<td>(5:00 p.m.) Spring break begins</td>
</tr>
<tr>
<td>March 26</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork resumes</td>
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<tr>
<td>March 30</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to drop with a guaranteed &quot;W&quot; and last day to add CAI courses</td>
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<tr>
<td>April 25</td>
<td>Wednesday</td>
<td>(4:30 p.m.) Last day to drop with Instructor permission</td>
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<tr>
<td>April 30-May 4</td>
<td>Monday - Friday</td>
<td>Final exams</td>
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<tr>
<td>May 4</td>
<td>Friday</td>
<td>(10:00 p.m.) Semester ends and semester break begins</td>
</tr>
<tr>
<td>May 5</td>
<td>Saturday</td>
<td>(10:00 a.m.) Convocation</td>
</tr>
<tr>
<td>May 7</td>
<td>Monday</td>
<td>(5:00 p.m.) Final grades due</td>
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**Summer Semester 2018**

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<tr>
<th>Date</th>
<th>Day</th>
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<tr>
<td>June 1</td>
<td>Friday</td>
<td>Enrollment for students who did not pre-enroll</td>
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<tr>
<td>June 4</td>
<td>Monday</td>
<td>(8:00 a.m.) Classwork begins</td>
</tr>
<tr>
<td>June 5</td>
<td>Tuesday</td>
<td>(4:30 p.m.) Last day to add classes</td>
</tr>
<tr>
<td>June 11</td>
<td>Monday</td>
<td>(4:30 p.m.) Last day to drop a class or totally withdraw for a refund</td>
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<tr>
<td>June 28</td>
<td>Thursday</td>
<td>Final exams for the 1st 4 week classes</td>
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<tr>
<td>July 2</td>
<td>Monday</td>
<td>2nd 4 week classes begin</td>
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<tr>
<td>July 4</td>
<td>Wednesday</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>July 13</td>
<td>Friday</td>
<td>(4:30 p.m.) Last day to drop with a guaranteed &quot;W&quot; and last day to add CAI courses</td>
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<tr>
<td>July 23</td>
<td>Monday</td>
<td>(4:30 p.m.) Last day to drop with Instructor permission</td>
</tr>
<tr>
<td>July 25-26</td>
<td>Wednesday and Thursday</td>
<td>Final exams for the 2nd 4 week &amp; 8 week classes</td>
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<tr>
<td>July 26</td>
<td>Thursday</td>
<td>(5:00 p.m.) Semester ends and semester break begins</td>
</tr>
<tr>
<td>July 27</td>
<td>Friday</td>
<td>(5:00 p.m.) Final grades due</td>
</tr>
</tbody>
</table>

*See early enrollment dates listed here: [http://www.swosu.edu/resources/schedules.aspx](http://www.swosu.edu/resources/schedules.aspx)
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Shamus Moore; B.B.A., M.B.A. ............................................................Registrar
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Laura Smith; B.S.N., R.N. .....................................................................Director of Health Services
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Lynne Thurman; B.A., M.Ed. ............................................................Assistant to the President for Institutional Initiatives
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Shelby Unruh; B.A., M.B.A. .................................................................Bursar
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Karen Wilson; B.S. ........................................................................Web Designer/Web & Creative Services
Bryce Wood ........................................................................Manager of Fine Arts Center
Wendy Yoder; B.A., M.Ed. .................................................................Retention Management Coordinator
FACULTY

VERONICA AGUINAGA (2015) .................................................Education Instructor; B.S., Southwestern Oklahoma State University; M.Ed., University of Central Oklahoma.

WARREN AKERS (2004) ..................................................Mathematics Instructor; B.S., University of Alaska; M.S., University of Colorado; M.S., University of Oregon.


FRED ALSBERG (1991) ..................................................Language and Literature Associate Professor; B.A., Columbia College (Illinois); M.F.A., University of Arkansas.

COPHIE C. ANDERSON (2011) ..............................Asst. Women’s Basketball Coach B.S., California State University, Fresno; M.Ed., Southwestern Oklahoma State University.

WAYNE ANDERSON (2011) ..................................................Kinesiology Instructor; A.A., Northern Oklahoma College; B.S., Central Oklahoma University; M.Ed., Central Oklahoma University.

LISA APPEDEDU (2002) ..................................................Pharmaceutical Sciences Associate Professor; B.S., M.S., University of Kentucky; Ph.D., New Mexico State University.

JIMENA ARACENA (2006) ..................................................Biological Sciences Associate Professor; B.S., University of Kansas; M.S., University of Miami; Ph.D., University of Kansas.

MELODY ASHENFELTER (1987) .........................Business & Computer Science Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., Oklahoma State University; C.P.A.


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Adjunct Instructors, Department of Biological Sciences
Program Directors and Medical Directors

Stacey Paryag; MPA, AHI (AMT), MLS (ASCP) CM,
Program Director
Carol Dittman, M.D., Medical Director
Comanche County Memorial Hospital
Lawton, OK

Leah Babcock; MSHR, MT (ASCP),
Program Director
Dr. L. W. Cartmell, Medical Director
Mercy Hospital Ada
Ada, OK

Nathan Harden; MS, MLS (ASCP)
Program Director
Sigrid Wayne, M.D., Medical Director
Tulsa, OK

Karen Ford; MBA, MT (ASCP) BB,
Program Director
Kari Butler; MLS, AMT, Program Educator
Mercy Hospital Ardmore
Ardmore, OK
MISSION, VALUES AND VISION

Southwestern Oklahoma State University is one of twenty-five institutions in the Oklahoma State System of Higher Education (Oklahoma Constitution, Article XIII-A, Section 1). The Oklahoma State Regents for Higher Education is the legal structure for public education at the collegiate level and is the coordinating board of all state institutions for higher education. Southwestern is one of six state supported regional universities governed by the Regional University System of Oklahoma. Southwestern Oklahoma State University provides access to higher education for all individuals without discrimination on the basis of race, national origin, gender, or disability status.

The mission of Southwestern Oklahoma State University, a member of the Regional University System of Oklahoma, is to provide educational opportunities, research, scholarly and creative activities, and service in a safe, accessible, nurturing learning environment that meets the needs of the state and region and contributes to the educational, economic, and cultural environment. SWOSU provides traditionally strong programs of study leading to a variety of degrees, from associate to doctoral degrees. The University’s areas of study, nationally accredited programs, general education curriculum, service and experiential learning activities, and participation in student activities and organizations provide students with opportunities to obtain skills, knowledge, and cultural appreciation that promote achievement by students and alumni.

SWOSU confirmed its values with its stakeholders.

- We value our standing as a premier Oklahoma institution of higher education that meets the needs of the state and the region by providing accessible, affordable, high-quality associate's, bachelor’s, master’s, and professional degree programs.
- We are committed to high standards for instruction, administrative services, research, scholarly and creative activities, and service to the university and community.
- Our faculty, staff, and administration are committed to fostering a safe, healthy, and diverse intellectual, cultural, and social environment for student success.
- We are dedicated to the economic stability and growth of our region, and we cherish our role as a center for arts, culture, science, and technology.
- We guide our actions by fairness, honesty and integrity as we meet our obligations through wise use of the financial and natural resources entrusted to us.

As a premier university responding to an ever-changing world, SWOSU will provide an environment for faculty, student and graduate success and public service through a variety of elements:

- Innovative and accessible academic programs;
- Student activities and opportunities;
- Cultural inclusion and diversity;
- Expanded international programs, opportunities for international students, and promotion of global awareness;
- Community and private sector partnerships that benefit students, faculty and staff and the community;
- Student and faculty research, scholarly, and creative activities that expand bodies of knowledge and enhance quality of life;
- Activities and investments that promote ethical, intellectual, professional, and personal growth;
- Promotion of university and community health and wellness;
- Commitment to advancing and maintaining technologies that optimizes university operations and classroom and student distance learning;
- Management of our financial resources and establishment of new avenues to support and preserve quality programs; and
- Expansion of alumni relations, recognition, partnerships and support.

Southwestern Oklahoma State University at Sayre enables the university to focus its mission to provide lower division programs and educational opportunities in higher education.

The following institutional functions have been approved by the Oklahoma State Regents for Higher Education, and are considered essential components of the mission on the Sayre campus:
To provide a lower division program of higher education for traditional and non-traditional students in Western Oklahoma and the Texas Panhandle.

To provide a general education that enables students to become informed responsible citizens.

To provide programs of education in the liberal arts and sciences leading to the Associate in Science degree through campus-based and distance learning.

To provide career and technical programs to enable students to seek employment in various job fields, with completion of such programs culminating in the awarding of the Associate in Applied Science degree or an appropriate certificate.

To provide transfer programs, which include liberal arts, sciences, and pre-professional subjects, thus enabling students to pursue completion of baccalaureate or professional degrees at four-year colleges and universities.

To provide courses, services, and programs in remedial education for individuals who require such assistance in order to function effectively at the collegiate level.

To provide guidance services and a program of student activities for the promotion of personal development and effective citizenship.

The University's academic organization includes colleges of Arts and Sciences, Associate and Applied Programs-Sayre Campus, Pharmacy, and Professional and Graduate Studies. Each of these entities and their subdivisions establish specific objectives that contribute to the achievement of University objectives.

DEGREES GRANTED

Southwestern Oklahoma State University is authorized to grant the following degrees:

- Associate in Applied Science
- Associate in Science
- Bachelor of Applied Science
- Bachelor of Arts
- Bachelor of Arts in Education
- Bachelor of Business Administration
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Music Education
- Bachelor of Science
- Bachelor of Science in Education
- Bachelor of Science in Nursing
- Master of Business Administration
- Master of Education
- Master of Music
- Master of Science
- Master of Science in Nursing
- Specialist in Education
- Doctor of Pharmacy

SOUTHWESTERN CAMPUS

The Southwestern Oklahoma State University campus includes 80 acres along the crest of an elevation overlooking the city of Weatherford and the Little Deer Creek Valley. Campus facilities include the following:

- **AARON CUSTER & ED DRURY MEMORIAL STALL BARN:** This memorial barn was built in 2013 to honor two freshmen members of the Rodeo program who died in 2011. The memorial barn is semi-enclosed and features 30 stalls.

- **ART BUILDING:** This building contains the Department of Art, Communication and Theatre.

- **ASSESSMENT CENTER:** The Assessment Center is located across the street south from Neff Hall at College and Eighth Streets. Various student tests administered through Assessment include ACT, AMT, CLEP, CPT, English Proficiency Exam, GED, GRE, OGET, OPTE, OSAT, PCAT, TEAS, TOEFL, and other assessments and services such as fingerprinting.

ATHLETIC FIELDS: Milam Stadium, the football field, has a seating capacity of approximately 10,000 and includes a quarter-mile track. In summer 2010, artificial turf was installed, and the field was newly named ASAP Energy Field when Rick Koch purchased naming rights. Intramural football and soccer fields are located in the northeast section of the campus. The Southwestern Athletic Complex is located on Caddo Street, ¼ mile north of Davis Street. All varsity baseball and softball games are played at the complex as well as varsity women’s soccer. A new building for concessions and public restrooms was completed in 2011, and the Everett Dobson Indoor Golf Facility was completed in 2015. Future construction includes additional softball and flag football fields for intramurals and a cross-country track.

BULLDOG PLAZA: The center for student activity on the north side of campus is the Bulldog Plaza, located on the west side of Rogers and Jefferson residence halls. In this plaza, you will find the University Bookstore and Market equipped with an ATM machine as well as a wireless internet student lounge with both private and TV watching areas.

- **BURTON HOUSE:** This structure, located on the south edge of the campus, was formerly used as the President's residence. It has been converted into offices for Institutional Advancement.

- **CAMPBELL BUILDING:** This building provides faculty offices and classrooms for the Department of Language and Literature and the Department of Mathematics. It is located in the northeast corner of the campus.

- **CAMPUS POLICE:** Located at the corner of College and State Streets, it provides for all safety related matters and has police officers available 24 hours a day for university safety and security.

- **CHEMISTRY-PHARMACY-PHYSICS BUILDING:** This facility houses the College of Pharmacy and Department of Chemistry and Physics. The original building, completed in 1963, was doubled in size by the addition of a wing in 1969.

- **CLASSROOM ANNEX:** This building is located between the Chemistry-Pharmacy-Physics Building and Stewart Hall.

- **CONFERENCE CENTER:** The University Conference Center is located at the corner of 7th and Davis just west of the Milam Stadium. The facility has the following rooms: Redbud Hall (main large room), Sunflower Room (just off the kitchen), the Mesquite Room, and the Dogwood Room, which are used for breakout rooms and small groups. The facility is used for seminars, workshops, banquets and special events. The Business Enterprise Center is also housed in this building.

- **DR. JOE ANNA HIBLER EDUCATION CENTER:** This two-story building houses the Dean of the College of Professional Studies and Graduate Studies, Department of Education, Department of Parks and Recreation Management, Graduate School Office, Center for Excellence in Teaching and Learning, and ITV classrooms.

- **ED AND WINNIE OLA BERRONG MUSIC HALL:** This building includes facilities for practice rooms, as well as large rehearsal rooms and classrooms.

- **FINE ARTS CENTER:** The 1,376-seat auditorium with support facilities for theatre and music activities, including rehearsal space and faculty offices, was completed in 1985. The Margaret Renz Replogle addition, completed in 1986, provides practice rooms and houses the Department of Music.

- **GENERAL THOMAS P. STAFFORD CENTER:** This 65,000 square foot building was dedicated in 1996 in honor of astronaut Thomas P. Stafford, a native of Weatherford. The building contains the Bernhardt Lecture Hall, 10 classrooms, 5 computer labs, and 2 seminar rooms. The Everett Dobson School of Business and Technology and the Department of Business and Computer Science occupy the third floor of the building. The second floor houses the offices of Information Technology Services, Enrollment Management, Admissions and Recruitment, Career Services
& Placement, New Student Orientation, Retention Management Coordinator, Student Financial Services, and the Dean of Students and Director of Student Activities.

HILLTOP THEATRE: Completed in 2008, this 9,500 square foot theatre was made possible by the Oklahoma Higher Education “Futures Under Construction” Capital Bond Program. The theatre is located just west of the Fine Arts Center.

JOHN HAYS ADMINISTRATION BUILDING: This building contains the offices of the President, Vice President for Administration and Finance, Provost and Vice President for Academic Affairs, Associate Provost for Academic Affairs, Vice President for Student Affairs, Vice President for Public Relations & Marketing, Business Affairs, Human Resources, International Student Affairs, Payroll, Registrar, and Sponsored Programs.

MARY MABRY SAVAGE APARTMENTS: Located in the southwest area of the campus, these one-bedroom units provide housing for full-time students that are either married or with dependents.

MEMORIAL STUDENT CENTER: Located on the main floor is Duke’s Diner (cafeeteria), the Bulldog Beanery (coffee shop), Yogurt Corner (yogurt shop) and the University Grill, which includes The Corner Bakery (breakfast items), Arrezzio’s Italian Cafè (pizza), Brandy’s Grill (hamburgers & fries), Casa Solana Mexican Cantina, and the Strip Joint (chicken strips). Adjacent to the University Grill is a recreational area. The Student Government Association offices are located near the north entrance on the first floor. On the second floor are the Ballroom, East Ballroom, and the Bonny Board Room for banquets and meetings. Also located on the second floor are the Director’s office and Auxiliary Services office, where you can get your official university ID, made and your meal card. Located downstairs on the southeast side of the Memorial Student Union is the Upward Bound offices.

PHARMACY II (Annex): Completed in 1975, this facility houses specialized laboratories, classrooms, and offices for the College of Pharmacy.

PIONEER CELLULAR EVENT CENTER: The 93,000 square foot, 3,400-seat event center is home to the SWOSU basketball and volleyball programs and is used for a variety of purposes including banquets, classes, meetings, trade shows, concerts, and more. As the premier event center in western Oklahoma, the Pioneer Cellular Event Center hosts nearly 100,000 guests each year. The event center is a glowing example of the support of the community of Weatherford for SWOSU and its students. Via the “Yes Weatherford” campaign, the citizens of Weatherford along with the student body and the SWOSU Foundation funded the project, and we are all very proud of the results. Call or stop in any time for a tour with the Director or Athletic staff.

QUANAH PARKER CENTER: This facility houses laboratories, classrooms, and offices for the School of Nursing and the Department of Psychology.

RANKIN WILLIAMS HEALTH AND PHYSICAL EDUCATION BUILDING: This building houses a basketball gymnasium with a seating capacity of 2,500, a swimming pool, classrooms and offices, and dressing rooms for athletic teams and classes. In January 2008, the Rankin Williams Field House Court was renamed Kelli Litsch Court. An addition to the building, completed in 1982, provided a second gymnasium. The former psychology department area was renamed the Cecil Perkins Football Complex in 2012.

RESIDENCE HALLS: There are six residential facilities located throughout the SWOSU campus and are assigned to full-time resident students. A total of both men and women. These buildings include: Black Kettle Hall, Stewart Hall, Oklahoma Hall, Rogers Hall, Jefferson Hall, and Neff Hall. The Residence Life office is located at the southwest corner of Neff Hall.

SCIENCE BUILDING: The "Old Science Building" is the oldest structure on campus. The building has been remodeled and air-conditioned since its construction in 1909. It houses the Dean of the College of Arts and Sciences, the Department of Biological Sciences, the Department of Social Sciences, and the Allied Health Sciences program. The building is on the National Register of Historic Places.

STUDENT GOVERNMENT ASSOCIATION OFFICES: Located near the north entrance on the first floor of the Memorial Student Center. All students are welcome to visit the offices. It is typically staffed by SGA members during normal business hours.

SWOSU LIBRARIES: Located near the center of the campus, the Al Harris Library houses books, periodicals, videos, government documents, and provides access to electronic resources including the institutional repository (Digital Commons). Individual study carrels are provided for students, seminar rooms for group use including the technologically robust Huddle Room, Media Studio, News Room, a 125-seat auditorium, and Writing Center in the lower level. Audiovisual equipment, wireless laptops, and a PC network with a public printer are also available in the Library.

SWOSU MAIN STREET BUILDING: SWOSU purchased this building in downtown Weatherford in 2009. The building houses the Weatherford area Chamber of Commerce and the SWOSU museum.

TECHNOLOGY COMPLEX: Located in the northeast quadrant of the campus and houses the Department of Engineering Technology.

WELLNESS CENTER: Health Services, Counseling Services, Intramural offices and a concession area surround a complete workout facility consisting of three basketball courts, a cardiovascular wing, a free weight room, aerobic rooms, classrooms, a 33-foot freestanding rock wall, and a meeting area for students.

Y CHAPEL HONORS BUILDING: The native stone structure was built in 1941. Recently renovated, it serves as a picturesque reminder of an earlier period and is the home of the SWOSU Honors Program.

RESIDENCE LIFE HOUSING INFORMATION AND REGULATIONS

At SWOSU, residential living is a significant part of the university experience, designed to support student success. Our program focuses on academic success, civic and community engagement, social and recreational involvement, healthy relationships, inclusive communities and personal wellness. Additionally, the residential community offers a variety of options for leadership, peer relationships and employment. Whether a student is beginning college or continuing an education, the Residence Life Department encourages everyone to consider the many benefits of campus living.

RESIDENCE HALLS

The SWOSU campus provides on-campus housing to over 1,200 students with six residence halls: Black Kettle Hall, Stewart Hall, Oklahoma Hall, Neff Hall, Rogers Hall and Jefferson Hall. Most residents stay in double occupancy rooms during their stay, however, a limited number of private rooms are available depending on availability. Rooms vary in size and design, but all come with two standard twin beds, two desks, two chairs, and closet space with chest of drawers for two. Each building has its own laundry facilities, study areas, lounges with televisions, and recreation rooms outfitted with pool tables, foosball, and other entertainment.

All residence hall contracts are binding for a 9-month academic term (fall and spring semesters). Rates listed are per semester and include a furnished room, all utilities, expanded cable service, and wireless internet. All residents must also select a meal plan for use on campus. Reserving a room can be accomplished by submitting an application with deposit to the Residence Life office, located at the southwest corner of Neff Hall.

MARY MABRY SAVAGE APARTMENTS

There are 32 University-owned, one-bedroom apartments available to full-time students that are either married or with dependents. All of these units are unfurnished. Monthly rent covers all utilities, cable TV, and internet access. Inquiries should be made in the Residence Life Office, located at the southwest corner of Neff Hall.
# TUITION AND FEES

Tuition and other fees are established by the Oklahoma State Regents for Higher Education. The charges listed in this catalog are those in effect at the time of publication and are subject to change (refer to academic schedule for current fees).

Tuition and fees* include all charges for enrollment with the exception of those listed under "Charges for Special Services".

Rates shown are per credit hour.

## TUITION*

| Level Courses | 1- 2- 3- 4000 | $233.50 |
| Tuition Lock | | $251.50 |
| Reach Higher (ORG) Courses | | $242.00 |
| Level Courses | 5000 | $270.50 |
| Pharm.D. Courses | | $615.00 |

## NON-RESIDENT STUDENT TUITION*

| Level Courses | 1- 2- 3- 4000 | $453.50 |
| Reach Higher (ORG) Courses | | $542.00 |
| Level Courses | 5000 | $540.50 |
| Pharm.D. Courses | | $1041.00 |

## NURSING TUITION

| RN/BSN** | $194.00 |
| Masters of Nursing | | $315.00 |

## NON-RESIDENT NURSING TUITION

| RN/BSN** | $424.00 |
| Masters of Nursing | | $585.00 |

*Tuition rates include the following mandatory fees per credit hour ($36.50 Total):
- Event Center Fee – $6.50
- Technology Service Fee - $11.00

** RN/BSN students will pay the following fees in addition to tuition per credit hour:
- Online Technology Service Fee - $11.00
- RN/BSN Distance Learning Fee - $40.00

*** Traditional Nursing students will pay the following fee in addition to tuition and mandatory fees ($36.50) per credit hour:
- Nursing Academic Fee – $70.00

## CHARGES FOR SPECIAL SERVICES

| ACT Residual Exam | $55.00 |
| Advanced Standing Credits (per credit hour) | $5.00 |
| Allied Health Software Fee (per course) | $100.00 |
| Application Fee | $15.00 |
| Arts and Sciences Academic Fee | $10.00 |
| Art Supply Fee (per course) | $90.00 |
| Art, Technology, Instructional Media, Cost of material used, Audit (without credit), each credit hour | Same charge as tuition Biology Lab Fee (per credit hour) | $5.00 |
| Blended/ITV Course Fee (per hour) | $30.00 |
| Business & Technology Academic Fee | $15.00 |
| (per hour on School of Business classes) Certification/Software Fee | $60.00/$95.00/$100.00 |
| (per semester on select Pharmacy classes) Chemistry Lab Fee (per course) | $60.00 |
| CAAS AEP Success (per credit hour on Sayre courses) | $4.00 |
| CAS AEP Success | $4.00 |
| CGPS AEP Advising | $3.00 |
| (per hour on classes under Professional & Graduate Studies) CLEP Exams | $105.00 |
| CLEP Comp. 1 Essay | $10.00 |
| CLEP Comp. 2 Essay | $10.00 |
| Distance Learning Fee | $40.00 |
| Electronic M/R Technology Fee (per course) | $60.00 |
| Emergency Vehicle Operation Fee (per course) | $400.00 |
| English Proficiency Exam | $20.00 |
| GED Exam (subject to change) | $136.00 |
| ITV-ZOOM Fee (per credit hour) | $25.00 |
| Medical Terminology Advanced Standing Exam | $40.00 |
| New Student Orientation Fee | $5.00 |
| Nursing Software Fee (per course) | $100.00 |
| Nursing-Test of Essential Academic Skills (TEAS) Exam | $65.00 |
| Parking Fee | $25.00 |
| (Fall and Spring for students with a parking decal) Pharmacy Care Lab 1 Fee (per course) | $60.00 |
| Pharmacy Care Lab 2 Fee (per course) | $55.00 |
| Pharmacy Care Lab 3 Fee (per course) | $130.00 |
| Pharmacy Care Lab 4 Fee (per course) | $65.00 |
| Pharmacy Immunization Certification Fee (per course) | $95.00 |
| Pharmacy Organization Activity Fee | $1.00 |
| (per hour on Professional Pharmacy Classes) Pharmacy Software Fee (Fall and Spring Semester) | $35.00 |
| Pharmacy Student Professional Liability Insurance | $12.50 |
| (per semester) Professional and Graduate Studies Academic Fee | $10.00 |
| (per hour on classes under Professional & Graduate Studies) Proctoring Fee (Non-SWOSU students) | $20.00 |
| Proctoring Fee (SWOSU students) | $10.00 |
| Proctoring fee at a remote location is at the discretion of the proctoring institution Radiologic Tech Clinical Fee (per credit hour) | $15.00 |
| Remedial Course Fee (per hour) | $40.00 |
| Science Laboratory Course | $10.00 |
| Cost of breakage Supplies Fee | Varies by department (applies to some Art, Biology, Chemistry, Communications, Computer, Geology, and P.E. classes; Fee is in lieu of supplies being purchased by student) Whitewater Rafting Fee (per course) | $190.00 |

## APPLIED MUSIC CHARGES

Accompanist Fees:
- Choir Music Accompanist (per course) | $100.00 |
- Music Accompanist I Fee (per course) | $45.00 |
- Music Accompanist II Fee (per course) | $75.00 |

Private lessons in music (per hour) | $75.00 |
Semi-private lessons in music (per hour) | $35.00 |
(Enrollment priority in private lessons is given to majors. Enrollment in applied music is by permission of the department.)

Organ rental, per semester | $10.00 |
Practice Room rental, per semester | $30.00 |
Primary instrument rental, per semester | $20.00 |
Secondary instrument rental, per semester | $5.00 |
(Instruments rented as available.)

## REFUNDS

Refunds for approved withdrawals from the institution are as follows (see current class schedule for calendar dates):

I. **Complete Withdrawal from SWOSU**
   - A. **100 percent** refund for dropping all courses before the course begins. In order to receive a refund for courses shorter in duration than four weeks, the student must drop the course before the course begins.
   - B. **100 percent** refund for dropping all courses during the first 10 class days for a regular term course, first five class days of a regular summer or eight-week course, or first two class days of a four-week course.
   - C. **No** refund for students withdrawing after the tenth class day for a regular term course, after the fifth day of a regular summer or program.
eight-week course, or after the second class day of a four-week course. For interim/seminar courses, there is no refund if the student drops after the course begins.

II. Schedule Adjustments (DROP)
   A. 100 percent refund for dropping class(es) during the first 10 days of a regular term course, during the first five days of a summer or eight-week course, during the first two days of a four-week course, or prior to the first class meeting of a course less than four weeks in length.
   B. No refund for dropping class(es) after the tenth day of a regular term course, after the fifth day of a summer or eight-week course, or after the second day of a four-week course. Courses shorter in duration than four weeks must be dropped before the course starts in order to receive a refund.

Refunds are based upon the day the classes are dropped or the official student withdrawal is completed, not on the date that the student stopped attending classes. To officially withdraw from all courses, student must contact the Registrar’s Office in person or by their SWOSU email.

Tuition refunds will not be processed until after the tenth class day of each semester or fifth class day of the summer. Refunds are disbursed to students via Bank Mobile.

For schedule adjustments (not complete withdrawals):
- 16 week – 10 days to drop for a refund
- 8 week – 5 days to drop for a refund
- 4 week – 2 days to drop for a refund
- Interim/seminar courses (courses less than 4 weeks) – prior to the first day of class

NOTE: Fees and tuition stated are those in effect when the catalog was published. Since charges are subject to change, current schedule of fees is available upon request.

GUARANTEED TUITION RATE PROGRAM
The Bursar’s Office coordinates, monitors, and records tuition payments including the guaranteed tuition rate program established with the start of the 2008-2009 academic year. This will allow students to guarantee their tuition rate for four years. If a student chooses to participate in the guaranteed tuition rate program, tuition (excluding fees) will be guaranteed for four years at 115% of the current tuition rate at the time of initial enrollment. The program is only available to full-time, undergraduate students entering college for the first time. Students must be enrolled full-time each fall and spring semester at SWOSU for four years to remain in the guaranteed tuition rate program. If a student qualifies for a tuition scholarship, the scholarship will be calculated at the regular or non-guaranteed tuition rate. The student will be responsible for the balance of tuition and fees.

Examples are available in the Bursar’s Office, Admissions and Recruitment Office, and the Registrar’s Office that may assist a student to determine if this program will benefit them. Students choosing to participate in the guaranteed tuition rate program should understand that they could possibly pay more in tuition in some cases (e.g. if at some point within the four-year guaranteed period they stop attending, drop below full-time enrollment, transfer to/from another institution, or if they are later admitted into the College of Pharmacy). Pre-Pharmacy majors who choose to participate in the program will not be able to continue with the guaranteed tuition rate upon admittance into the College of Pharmacy. However, in most cases, students who choose to lock in their tuition rate, continue their undergraduate fulltime enrollment and progress satisfactorily to graduate with a degree in four years may pay less in tuition than if they did not lock in their tuition rate. The program is only available to undergraduate students.

If a student chooses to participate in the guaranteed tuition rate program, they must return the completed form prior to enrollment. This form must be signed and documented in the Registrar’s Office prior to enrolling or attending one of the designated New Student Orientation sessions. Students may return this form as they register on the morning of the New Student Orientation session they choose to attend.
SERVICES, ACTIVITIES & ORGANIZATIONS

CAMPUS POLICE

SWOSU maintains a Campus Police pursuant to authority granted by Statutory Law of the state of Oklahoma (title 74, 360.17). Police officers of the Campus Police department are bona fide peace officers, bonded and commissioned by the Regional University System of Oklahoma. The Campus Police has the responsibility of enforcing state law and all regulations of the University.

CENTER FOR EXCELLENCE IN TEACHING AND LEARNING

The Center for Excellence in Teaching and Learning assists Southwestern Oklahoma State University, a student-centered university, by providing resources and professional growth opportunities for faculty on enhancing instructional practices, integrating technology in the classroom, advancing online learning, and promoting strategies which increase student learning and success.

SWOSU has several different options for distance learning.
- **Online** courses are delivered over the Internet and provide access to the teacher and to classmates wherever the student is able to connect to the Internet. At SWOSU, online course work uses Canvas, a learning management system that will allow students to have course materials delivered to them with the ability to connect with faculty and students in ongoing discussions each week.
- **Interactive Television (ITV)** is another delivery system for course work at Southwestern Oklahoma State University. ITV courses are conducted via two-way television, and students are able to interact with the teachers and fellow students in a way that most closely replicates the traditional classroom experience.
- **Webinar** courses are similar to ITV courses in that students meet at a specific time each week, but differs in that the lectures and class interactions are delivered through the student’s laptop or desktop computer. Seeing and hearing the instructor and other students is done computer to computer.
- **Blended** courses are ones where a combination of delivery methods is employed such as ITV and Online together with in-person attendance.

COUNSELING SERVICES

Personal counseling is offered at Counseling Services. Confidential counseling is provided by licensed professional counselors and is available to Southwestern students at no charge. Students are often seen for things such as depression, anxiety, relationship problems, grief, eating disorders, self-esteem, anger management, PTSD, and substance abuse and/or assault. Referrals are provided for SWOSU students as needed. Counseling Services is located in the Wellness Center and is open Monday through Friday, 8:00 a.m. - 12:00 p.m. and 1:00 p.m. – 5:00 p.m.

DEAN OF STUDENTS AND DIRECTOR OF STUDENT ACTIVITIES

Major functions and responsibilities of the Office of the Dean of Students include monitoring student conduct and compliance with university policies and for providing leadership for the resolution of student problems. Areas of direct responsibility include FERPA, Title IX, student organizations and activities, student ombudsperson, accommodations for students with documented disabilities, student conduct, student appeals, parental contacts, and verification of student records.

ENROLLMENT MANAGEMENT

Includes the following:
- **Admissions and Recruitment**
  The Admissions and Recruitment Office coordinates public relations with high schools in the area served by the University. Representatives visit schools, attend career day programs, provide admission counseling and campus tours for all interested students.

Whether you are a recent high school graduate, a transfer student or a returning adult learner, the Admissions and Recruitment Office offers tours of the campus and residence halls and answers inquiries about SWOSU.

- **Career Services**
  Southwestern Oklahoma State University provides career services for all students and alumni. Career Services also provides assistance to students in selecting a major, securing internships, summer work opportunities and full-time employment upon graduation.

Students can utilize Career Services at any point during or after their college career. Some of the services offered include resume review/critique, mock interviews, on-campus interviews, resume referrals, job listings, company research material and several annual career fairs and events.

Students and alumni can also take advantage of the Bulldog Job Board to search for employment opportunities. Visit Career Services at www.swosu.edu/administration/careers for complete details or visit their office located in STF-209.

- **Freshmen Orientation/New Student Orientation**
  All freshmen are required to participate in New Student Orientation (NSO). NSO includes enrollment sessions prior to the beginning of the fall semester in which students receive academic advisement and enroll in fall coursework; Mass Orientation, a SWOSU tradition when students meet as an entire class; and a freshman orientation course. More than 40 student Orientation Leaders (OLs) assist with all aspects of the program to help new students make a smooth transition into college life at SWOSU. A student is exempt from the NSO enrollment process if they have been out of high school two or more years.

For more information, contact the New Student Orientation Office in STF-209 (580) 774-3233 or e-mail orientation@swosu.edu.

HEALTH SERVICES

The University employs a Registered Nurse (RN) who sees students for illness and minor injuries as well as wellness care. Health Services also manages student compliance with state immunization laws. Health Services is located in the Wellness Center and is open Monday through Friday, 8:00 a.m. - 12:00 p.m. and 1:00 p.m. – 5:00 p.m. For an appointment or for walk-in hours, please call Health Services.

HUMAN RESOURCES

Once a student has secured a job through the Bulldog Job Board, they will visit the Human Resources (HR) office to complete new hire paperwork. The Human Resources Office must meet with the student on or before their first day of work to verify employment eligibility using the E-Verify system. In addition, the student will complete other required documents including, but not limited to a loyalty oath, W-4 and direct deposit. A variety of student positions are available on the Bulldog Job Board. Student employees are scheduled based on the needs of the on-campus department. The average hours worked per week is between 12 and 15. However, students cannot work more than 20 hours per week. Student workers may exceed the 20 hour limit between semesters and during the summer months.

Human Resources provides complete information about a number of issues which affect student employees. Individuals may refer to the bulletin board outside the Human Resources office and in the Staff Handbook on the website for information about the extent of these issues, the risks involved, the legal standards adopted, and the offices and/or agencies which may offer assistance.
Students can find additional assistance from the Human Resources office with any employment related concerns. (The Dean of Students or any Executive Officers are also available if needed.)

INFORMATION TECHNOLOGY SERVICES

Southwestern Oklahoma State University maintains a campus-wide computer network. Through this network, all students can access various computer resources and applications, as well as full Internet and e-mail services. Access is provided via a large number of labs, wireless networks and other sites across campus. The Information Technology Services Department provides assistance and support to all students, academic departments, and administrative offices.

INTERNATIONAL STUDENT AFFAIRS

The Office of International Student Affairs (ISA) provides services to international students at SWOSU and supports international efforts at SWOSU. ISA recruits international students, processes applications for admission from students requiring a student visa, and provides to these students needed immigration documents. ISA continually provides advice and assistance to international students as needed throughout their association with SWOSU. ISA serves as the liaison between SWOSU and the United States Citizenship and Immigration Services (USCIS) Office and the Department of Homeland Security (DHS) in matters concerning student visas.

PUBLICATIONS

Southwestern Oklahoma State University students are directly involved in the preparation of two publications, The Southwestern and The Graduate Record. A weekly newspaper, The Southwestern, has a general circulation on campus and is mailed to subscribers. The Graduate Record includes photos of SWOSU seniors and faculty. A complimentary copy of The Graduate Record is provided to each graduate. Additional copies may be purchased from the University Bookstore.

An alumni news magazine, Echoes from the Hill, is published biannually by the Office of Institutional Advancement and mailed to members of the Alumni Association.

Departmental brochures are prepared and published by the respective departments.

The Department of Chemistry and Physics publishes the SW Physics Alumni Newsletter and the Chemistry Newsletter.

The Department of Education publishes the Student Teaching Handbook.

The Fact Book is a summary of demographic information for both campuses that is published by the Institutional Research Office each fall. This office also publishes a Retention Report as well as an Enrollment Report each semester.

The Faculty Handbook is published by the Office of the Vice President for Academic Affairs.

The Graduate Catalog is published by the Office of the Dean of the College of Professional and Graduate Studies.

The College of Arts and Sciences publishes aCADemicS, the monthly newsletter of the College.

The College of Pharmacy has three publications: The Apothecary, an annual journal; The Sig, a professional newsletter; and The Bulletin.

The Sayre University Catalog is published by the Office of the Dean of Associate and Applied Programs.

The Scholarship Handbook, the semester schedules, the Student Handbook, and the Undergraduate Catalog are published by the Office of the Vice President for Student Affairs.

The Staff Handbook and Employment Practices Review are published by the Human Resources Office.

SWOSU Journal of Undergraduate Research is a journal developed and run by SWOSU students and faculty featuring research activities.

Westview is a literary journal featuring short stories, poetry, and essays. It is published by the College of Arts and Sciences.

PUBLIC RELATIONS & MARKETING

The Public Relations & Marketing Office is responsible for all publicity of activities and events concerning the University as they relate to media sources. The office operates a news service for daily and weekly newspapers, radio and television stations, and the SWOSU web site. SWOSU PR & Marketing also communicates with various constituents through several social media sites. The office also assists in the promotion of interscholastic events and other University projects on and off campus.

RETENTION MANAGEMENT

The Office of Retention Management focuses on helping students attain their collegiate goals and maximize their academic success. The department works with academically at-risk students to assist them in accessing university resources. This office assists committed students in recognizing their strengths while addressing any weaknesses that may be counterproductive to achievement.

SCHOLARSHIPS

The SWOSU Foundation, Inc. is a non-profit charitable organization that awards scholarships to selected incoming and continuing students from over 200 distinctive scholarship funds generously provided by SWOSU’s private donors. Scholarship amounts vary from $250 to over $1,000 per year. Applications and information about the funds may be obtained by visiting www.SWOSUFoundation.org, calling 580-774-3267, or by visiting the SWOSU Institutional Advancement Offices at the Burton House.

STEP AHEAD PROGRAM

The Step Ahead program provides area high school students with the opportunity to earn college credit while in high school. Students may enroll in summer, fall, or spring semesters if they meet criteria approved by the State Regents for Higher Education and their high school.

STUDENT FINANCIAL SERVICES

The Student Financial Services Office coordinates, monitors and records scholarship data from all sources. The office also evaluates the results of the student's application for federal financial assistance, establishes eligibility to participate in the various loan, grant, and work study programs, and awards to the student from each source any aid for which he qualifies in an amount not to exceed the student's demonstrated need and cost of attendance. Questions relating to the application process for scholarships or federal financial aid should be directed to the Student Financial Services Director at SWOSU.

STUDENT ORGANIZATIONS

All students are encouraged to become active in one or more of our campus organizations which are listed at the following website: http://www.swosu.edu/stuorgs/projectmain/DirectorySearch.aspx

SWOSU LIBRARIES

SWOSU Libraries serves a vital role in research, which occupies a significant place in the life of the university.

The Al Harris Library, named in honor of a former University president, is a major resource to the University. It is centrally located on the Weatherford campus. It is open seven days a week (8:45 hours a week). The Oscar H. McMahen Library, named in honor of the first president of the Sayre Campus, is open weekdays (56 hours a week). Open book stacks, loans of library materials, and full access to digital books, periodicals, audiobooks, and streaming videos, both on and off campus.
make library resources easily accessible to students and faculty. Research assistance is provided by faculty librarians on both campuses, both in person and virtually.

The SWOSU Libraries has over 303,000 bound volumes, over 210,000 electronic books, and subscribes to approximately 38,000 print and electronic periodicals. The collection is expanded by 1,200,000 microforms, over 4,600 media materials, and access to 100 online and full text databases. The Library is a partial U. S. Government and Oklahoma state document depository.

Interlibrary loan and document delivery service and library instruction sessions on research skills and information literacy are offered in undergraduate, graduate courses and online instruction.

**TESTING SERVICES**

The Assessment Center serves as a clearinghouse for students wishing to take admissions tests, course placement exams, various state and national tests and advanced standing exams. The advanced standing plan at Southwestern was established to give students an opportunity to begin college work on the level commensurate with their demonstrated achievement. With certain limitations, all such achievement, once certified to be at the college level by this institution, receives appropriate academic credit.

**UPWARD BOUND**

The Upward Bound Program prepares low-income, first generation students within target area high schools for post-secondary education. Services provided to qualifying participants include a six-week summer residential program, tutoring, ACT test preparation classes, academic and career counseling, cultural and educational enrichment field trips, community service activities, college campus visitations, exposure to professional careers and mentors, and assistance with financial aid, scholarship and college admission applications.

**VETERANS**

All students attending the University under the Veterans Administration (VA) Benefits Program may obtain admission and benefit information in the Registrar's Office. For additional assistance, the toll-free Veterans Administration number is 1-800-827-1000 or you can visit [www.gibill.va.gov](http://www.gibill.va.gov).

**VOCATIONAL REHABILITATION**

The State Board of Vocational Rehabilitation maintains an office in Weatherford. Guidance and financial assistance is provided to eligible physically handicapped students. Contact the Vocational Rehabilitation office for information.

Vocational Rehabilitation
1501 Lera Drive, Ste. 1
Weatherford, OK 73096
Phone: 580-816-4100
STUDENT FINANCIAL SERVICES

Financial aid at Southwestern Oklahoma State University includes employment, loans, scholarships, grants, awards, and other forms of financial assistance. Our institution distributes over $37,000,000 annually in federal and state financial aid including Federal Pell Grants, Federal SEOG grants, Oklahoma Tuition Aid Grants, Oklahoma Promise, Federal Work-Study employment, Federal Stafford Loans, and Federal Parent PLUS Loans. Information pertaining to these types of aid may be obtained from the Office of Student Financial Services in the Gen. Thomas P. Stafford Center, Room 224, or by calling (580) 774-3786. Students may apply for student employment in the Human Resources Office of the University. The University offers work-study (federally assisted) and regular student employment.

Financing a college education today can be challenging, but does not have to be overwhelming. Our objective is to work with students and create a financial aid package that will help them attend Southwestern Oklahoma State University. Since educating a student is a family responsibility, the financial service resources in this catalog are not designed to replace family assistance, but to supplement it. Although students and parents are expected to be contributors toward educational expenses, over 65 percent of Southwestern Oklahoma State University students receive some kind of financial assistance.

Financial assistance consists of scholarships, grants, loans, and work-study opportunities. Scholarships are generally merit-based awards. They are awarded to a student on the basis of skill or accomplishment. Scholarships are generally not cash awards, but instead waivers applied toward tuition and room charges incurred at the university. Other financial service programs described are awarded to a student on the basis of financial need, taking into consideration the expected family contribution (EFC) and the cost of attending school. Grants, loans, and work-study programs fall into this category.

Students who are convicted of possession or sale of illegal drugs while receiving federal financial assistance will lose eligibility for continued assistance.

HOW TO APPLY FOR FINANCIAL ASSISTANCE

Students should complete a Free Application for Federal Student Aid (FAFSA), which is available online at http://www.fafsa.ed.gov.

Once the federal processor has completed calculations, SWOSU will automatically receive the student’s data if we are listed as a school recipient. The Office of Student Financial Services will notify the student of his/her eligibility. It is important that the student respond in a timely manner to prevent any delay in completion of the financial aid process.

Financial aid is not automatically renewed each year. Typically, a student is awarded financial aid for the fall/spring semesters. **A student needs to reapply after October 1 for financial aid consideration for the following fall/spring terms.**

FINANCIAL AID APPLICATION
RECOMMENDED COMPLETION DATES

Many financial aid programs at Southwestern Oklahoma State University are administered on a first-come, first-served basis. For best consideration, students should strive to complete the appropriate paperwork by the following dates:

- Foundation Scholarship Application ................ March 1
- Freshman Scholarship for students admitted by: March 1
- Free Application for Federal Student Aid - Fall/Spring ........................................ March 1

SATISFACTORY ACADEMIC PROGRESS

Federal law requires that all students who receive financial aid must maintain the requirements of the Satisfactory Academic Progress (SAP) policy of the University to continue receiving financial aid from the following programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Oklahoma Tuition Aid Grant, Federal Subsidized Stafford Loan, Federal Unsubsidized Stafford Loan, Federal Parent PLUS Loan. State law now also requires that students meet the Federal (SAP) policy to receive OHLAP or Oklahoma Promise.

For a copy of the Southwestern Oklahoma State University Satisfactory Academic Progress (SAP) policy, contact the Office of Student Financial Services or see our web page at www.swosu.edu/sfs/.

RETURN OF TITLE IV FUNDS

Federal law requires that students who receive financial aid and completely withdraw before the 60 percent point of a semester will be subject to pay back some of the financial aid that they received. If a student needs to completely withdraw, he/she should consult with the Office of Student Financial Services before doing so to see what implications withdrawal will have.
**FINANCIAL AID AND RESOURCES**

**Need Based Financial Aid**
A student must complete a Free Application for Federal Student Aid (FAFSA) in order to apply for need based financial aid. Household size, the number of children in college, and family income are important variables in determining eligibility for need based financial aid. All of the programs listed on this page require a FAFSA be completed.

**Federal Pell Grant**
Over $6,000,000 per year is given to SWOSU students from the Federal Pell Grant Program. It is the largest federal grant program. Federal Pell Grants are available to help undergraduate students pay for their education. For Federal Pell Grant Programs, an undergraduate is one who has not earned a bachelor’s degree. The amount a student can receive depends on whether the student is full-time, half-time, or less than half-time, and the student’s Expected Family Contribution (EFC) number, which is on the Student Aid Report (SAR). Students must reapply each academic year to have his/her eligibility assessed and be making satisfactory academic progress. Typically, other than in the case of a complete withdrawal by the student, Federal Pell Grants do not have to be repaid.

**Federal Supplemental Educational Opportunity Grant (SEOG)**
The Federal Supplemental Educational Opportunity Grant (SEOG) is a federal grant program limited to undergraduate students who are enrolled at least half-time with exceptional financial need. It must be awarded to Federal Pell Grant recipients who have the lowest Expected Family Contribution (EFC). The amount a student can receive depends on the student need, the availability of Federal Supplemental Educational Opportunity Grant funds, and the amount of other financial assistance the student is receiving. Typically, Federal Supplemental Educational Opportunity Grants do not have to be repaid.

**Federal Work-Study Employment**
Funded by the federal government, this is a program that provides jobs for students who are eligible for need-based financial assistance. The amount of the offer depends on the student’s need, the availability of funds for the program and the amount of assistance the student receives from other programs. Students generally work 10 to 20 hours per week during each semester. The student must be enrolled at least half-time to be eligible for this program. In addition to Federal Work-Study jobs on the campus, there are also a limited number of opportunities for students to participate in a reading and math tutoring program off campus. Work-study job assignments are not guaranteed by the University.

**Federal Stafford Loans**

**Subsidized**
Subsidized Federal Stafford Loans are low-interest, need-based loans made to the student by the U.S. Department of Education to help pay for the student’s education. A student must be enrolled at least half-time to be eligible to receive a loan and must complete an entrance interview before receiving student loan funds. Loan amounts vary depending on the student’s grade level and other financial aid the student may be receiving. The student does not have to begin repayment on the loan for six months after they have either graduated or dropped below half-time enrollment.

**Unsubsidized**
Unsubsidized Federal Stafford loans are low-interest, non-need based loans made to the student by the U.S. Department of Education, to help pay for the student’s education. A student must be enrolled at least half-time to be eligible to receive a loan and must complete an entrance interview before receiving student loan funds. Loan amounts vary depending on the student’s grade level. The student is responsible for paying the interest on this loan while in school. Repayment of the principal balance begins six months after the student either graduates or drops below half-time enrollment.

**Oklahoma Tuition Aid Grant (OTAG)**
The Oklahoma State Regents for Higher Education sponsor the Oklahoma Tuition Aid Grant Program. This grant program is based on a student’s financial need. The student must be a resident of the state of Oklahoma and be enrolled at least half-time to be eligible. The asking student uses the Free Application for Federal Student Aid to apply for this grant, and traditionally, the application data must be received by the federal government by December 1 to be considered for available funds.

**Oklahoma Higher Learning Access Program (OHLAP)**
The Oklahoma State Regents for Higher Education sponsor the OHLAP Program. Students sign up for the program while they are in 8th, 9th, or 10th grade. Students whose parents earn $50,000 or less at the time they sign up and less than $100,000 at the time they begin college are eligible to have tuition paid while enrolled at SWOSU.
UNDERGRADUATE ADMISSIONS

GENERAL ADMISSION REQUIREMENTS

Minimum requirements for admission to Southwestern Oklahoma State University have been established by the Oklahoma State Regents for Higher Education. Minimum requirements for first time entering freshmen are as follows:

- Graduate of an accredited high school.
- Meets or exceeds minimum ACT score of 20 or SAT score of 940; or has a high school cumulative grade point average of at least 2.7 (based on 4.0 scale) and is ranked in top 50% of the high school graduating class; or has a 2.7 GPA in the 15-unit core curriculum.
- Meets the minimum high school curricular requirements:
  - 4 years of English (grammar, composition, literature)
  - 3 years of mathematics (Algebra I, Algebra II, Geometry, Trigonometry, Math Analysis, Calculus)
  - 3 years of lab sciences (may not include general science)
  - 3 years of History and Citizenship Skills (including one year of American history and two additional years from the subjects of history, economics, geography, government, non-Western culture)
  - 2 years of additional units (computer science, foreign language, or any Advanced Placement course except applied courses in fine arts)

*Foreign Language is not required for admission to SWOSU, but if you are pursuing a major in the education field, then it is recommended (two years of same language).

- Graduates of unaccredited high schools or home study programs may satisfy admission requirements by meeting the minimum ACT (or SAT) score and satisfying curricular requirements.
- Southwestern Oklahoma State University considers the following nonacademic criteria in admitting first time, transfer, or readmission students: (a) whether applicants have been expelled, suspended, or denied admission or denied readmission by any other educational institution; (b) whether the applicants have been convicted of a felony or convicted of a lesser crime involving moral turpitude; (c) whether the applicant’s conduct has been such that if the applicant was a student at the time of the conduct in question, the conduct would have been grounds for expulsion, suspension, dismissal; or denial of readmission at the University.

ADULT ADMISSION

General admission requirements apply to all students seeking admission to Southwestern Oklahoma State University. Adult students who are 21 years of age or older or on active military duty who do not meet general admission requirements may be admitted under adult admission criteria. The ACT, SAT or second level assessment scores are required for placement in classes. The class placement listed under Second Level Assessment/Remedial Courses will be used.

SECOND LEVEL ASSESSMENT/REMEDIAL COURSES

The Oklahoma State Regents for Higher Education established an ACT score of 19 as the “first cut” in determining student readiness for college level coursework. Students must score 19 or above in the four subject areas of mathematics, English, reading, and science reasoning in order to avoid second level testing and/or remediation. Students who score below 19 on an ACT subtest must complete second level testing. The course placement test (CPT) is used as a second level test. Students may contact the University Assessment Center for information about testing, remediation through the Placement Roadmap to Success, and possible placement in required remedial courses. CPT scores have been established for remedial course placement as follows:

<table>
<thead>
<tr>
<th>CPT TEST</th>
<th>SCORE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Below 70</td>
<td>0123 Fund. of English</td>
</tr>
<tr>
<td>Reading</td>
<td>Below 75</td>
<td>0122 Improve. of Reading</td>
</tr>
<tr>
<td>Math if 1513 College Algebra is required for your major:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elem. Algebra</td>
<td>Below 75</td>
<td>0114 Fund. of Algebra I and 0133 Fund. of Algebra II</td>
</tr>
<tr>
<td>or</td>
<td>76-91</td>
<td>0133 Fund. of Algebra II</td>
</tr>
<tr>
<td>Math if 1513 College Algebra is not required for your major:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arithmetic</td>
<td>Below 90</td>
<td>0144 Found. of Math Reason. or</td>
</tr>
<tr>
<td>Elem. Algebra</td>
<td>Below 75</td>
<td>0144 Found. of Math Reason.</td>
</tr>
</tbody>
</table>

Science

Students with ACT science reasoning score below 19 must satisfy all remediation requirements before enrolling in science courses. The first science course must be a general education science course.

Some courses may be recommended based on students’ CPT scores.

Students requesting to enroll in a college level course based on the completion of a remedial course(s) at another institution must have successfully completed an acceptable remedial course(s) that is subject to approval from the appropriate department chair. Please contact the Registrar’s office to find out if the successful completion of a specific remedial course(s) at another institution will meet the prerequisite requirement for enrollment in a college level course at SWOSU. Students who completed a remedial transfer course(s) that is not an acceptable prerequisite for enrollment in a college level course at SWOSU should contact the University Assessment Center to enter the Placement Roadmap to Success.

ALTERNATIVE ADMISSION

- Individuals who meet curricular requirements but do not qualify for admission on performance criteria (e.g. ACT score or high school GPA and class rank) may be eligible for admission through the alternative admission category. Applicants admitted in the alternative category must present evidence that they have a reasonable chance for academic success. Other criteria for admission include unusual talent/ability (e.g. art, music, drama) or a disadvantaged educational and/or economic background. Admission in this category is limited. Contact the Admissions and Recruitment Office for additional information.
- Individuals who meet performance requirements may satisfy a maximum of two course deficiencies in the summer term prior to the regular semester of desired entry. The student
must successfully complete deficiency courses during the first 24 hours; however, students that have not completed required deficiency courses within the first 24 hours may be eligible for further enrollment in cases where s/he is enrolled in the necessary courses that are required to remove deficiencies.

- Adult students (21 years and older) who do not meet regular admission requirements may be admitted under adult admission criteria. The ACT or other entry-level assessment will be required for placement in classes.

**ADMISSION FOR CONCURRENT ENROLLMENT**

A senior student enrolled in an accredited Oklahoma high school may, if the student meets the requirements set forth below, be admitted provisionally to SWOSU.

- The student must meet the published criteria of the State Regents (other than high school graduation) for admission to the institution to which they applied.
- The student must be eligible to complete requirements for graduation from high school no later than the spring of the senior year as attested by the high school principal.
- A high school student admitted under the provisions set forth above may enroll in a combined number of high school and college courses per semester not to exceed a full-time college workload of 19 semester credit hours. For purposes of calculating workload, one high school credit course shall be equivalent to three semester credit hours of college work. The collegiate portion of the student’s workload must be taken on the SWOSU campus or through interactive video with regular faculty members of the institution.
- A student who is otherwise eligible under this policy may enroll in a maximum of nine semester credit hours during a summer session or term at a college or university of the state system following the end of the junior year of high school without the necessity of being concurrently enrolled in high school classes during the summer term. The completion of the high school curricular requirements set forth above shall not be required of concurrently enrolled high school students.
- Following high school graduation, such a student may continue enrollment at the institution to which the student has been admitted or may transfer to another institution in the state system, provided that during the provisional enrollment period the student has achieved a college grade-point average of 2.0 or above on a 4.0 scale and meets the entrance requirements of the receiving institution, including the high school curricular requirements.

**SPECIAL ADMISSION FOR NON-DEGREE SEEKING STUDENTS**

- Individuals having no intent to pursue a degree may enroll in a maximum of nine credit hours without submitting academic credentials or meeting the academic performance or curricular requirements. Retention standards will be enforced. Before enrolling in hours beyond the nine credit hour maximum, students must be formally admitted to the University.

**TRANSFER STUDENTS**

Transfer students from other accredited colleges and universities who are legal residents of Oklahoma may transfer to SWOSU under the following conditions:

- If the student originally met both the high school curricular requirements and academic performance standards of SWOSU, the student must have a grade point average high enough to meet SWOSU’s retention standards; or
- If the student originally met the high school curricular requirements but not the academic performance standards of SWOSU, the student must have a grade point average high enough to meet SWOSU’s retention standards, and must also complete the curricular requirements before transferring; or
- If the student originally met neither the curricular nor the performance requirements of SWOSU, the student must have a grade point average high enough to meet SWOSU’s retention standards based on at least 24 completed semester credit hours of regularly-graded (A, B, C, D, F) college work and must also complete the curricular requirements, as specified.

Transfer students who are not residents of Oklahoma may transfer from an out-of-state institution if they meet the following requirements:

- meet University admission requirements.
- have a cumulative college GPA of at least 2.0.
- be in good standing at the institution from which they are transferring.

**TRANSFER CREDIT**

- Transcripts of record from colleges or universities accredited by the Higher Learning Commission or other regional associations will be given full value when appropriate to the student’s degree program.
- Transcripts of records from institutions not accredited by a regional association may be accepted in transfer when appropriate to the student’s degree program and when Southwestern Oklahoma State University has had the opportunity to validate the courses or programs.
- Validation of credits may include, but is not limited to, the completion of college level courses and/or evaluation by an appropriate academic department.
- Credit accepted in transfer that is not in semester credit hours will be converted to semester credit hours.
- All transfer credit is calculated in the cumulative grade point average.
- Evaluation of military service may be accomplished by submitting service records to the Office of the Registrar.
- Credit recommendations from the American Council on Education will be considered.

**OKLAHOMA TAXPAYER AND CITIZEN PROTECTION ACT OF 2007 (HB 1804 IMMIGRATION LAW)**

HB 1804 provides that an individual who is not lawfully present in the United States shall not be eligible on the basis of residence within Oklahoma for any postsecondary education benefit, including but not limited to, scholarships or financial aid, or for resident tuition, except as provided under new law set forth in other provisions of HB 1804 and under the revised State Regents’ policy (3.18.9) which conforms with that new law. However, HB
1804 also provides that this provision regarding eligibility for resident tuition and state financial aid shall not apply to an undocumented immigrant student enrolled in a degree program during the 2006-07 school year or any prior school year who received a resident tuition benefit pursuant to the pre-HB 1804 statute and pre-HB 1804 State Regents policy regarding undocumented immigrant students. In addition, SB 820 of the 2007 legislative session creates unique treatment of undocumented immigrant students participating in Oklahoma’s Promise.

The new legislation identifies three categories of undocumented immigrant students:

- **Category I** – students enrolled in a degree program during the 2006-07 year or any prior school year who received a resident tuition benefit pursuant to the pre-HB 1804 statute and pre-HB 1804 State Regents’ policy. These students are “grandfathered” and remain eligible for resident tuition and state financial aid under the pre-HB 1804 law and pre-HB1804 policy.

- **Category II** – students enrolling in a postsecondary education institution in 2007-08 and thereafter. These students are subject to the new restrictions under HB 1804 and the State Regents’ policy that became effective November 1, 2007.

- **Oklahoma’s Promise** – While students participating in Oklahoma’s Promise also fall into either Category I or Category II, SB 820 provides unique treatment of these students with respect to their eligibility to receive the Oklahoma’s Promise award.

**INTERNATIONAL STUDENTS**

- An international student is a student attending the university with a student visa (F-1) immigration status.

- Before being considered for admission as a first time freshman, an international applicant must provide the Office of International Student Affairs with a satisfactory SAT or ACT score and proof of English proficiency by meeting one of the following test standards: a score of 500 or higher on the paper-based version of the Test of English as a Foreign Language (TOEFL), or a 61 or higher on the internet-based version of the TOEFL, or a 5.5 or higher on the International English Language Testing System (IELTS).

- International student applicants must provide a financial certificate on a university-provided form showing sufficient resources to pay for the student’s study and living expenses.

- Application deadlines for international students are June 15 for fall semesters, October 15 for spring semesters, and March 15 for summer semesters.

- The student should understand that admission to the university in no way indicates acceptance into the College of Pharmacy, School of Nursing, or other professional programs.

- International students are considered non-residents of Oklahoma and as such, they pay non-resident tuition and fees.

- International students are expected to follow all USCIS regulations concerning employment while attending Southwestern Oklahoma State University.

- U.S. Government Federal Financial Aid is not available to international students.

- SWOSU relies on foreign credential evaluation reports compiled by a NACES member (http://www.naces.org/) company to evaluate coursework completed in non-USA postsecondary institutions. Coursework completed at a non-USA institution will be evaluated for transfer to SWOSU after receipt of this evaluation report (course-by-course) and after a student has begun classes at SWOSU. Please be aware that SWOSU may request course descriptions for specific courses. This transfer process is often completed within five months following the receipt of the evaluation report from a recognized evaluation company but in some instances more time is required.

- Medical insurance is required. Details are available through the Office of International Student Affairs.

- A non-citizen who has attained Permanent Resident immigrant status or whose citizenship is pending will be treated as a U.S. citizen for admission purposes. The regular admissions criteria for in-state or out-of-state students, as applicable, would then apply. (Students for whom English is a second language will be required to prove English proficiency.)

**INTERNATIONAL TRANSFER STUDENTS FROM ACCREDITED U.S. COLLEGES**

- Must have a cumulative GPA of not less than 2.0 (on a 4.0 scale) in all hours attempted and meet other specified requirements.

- Must provide a satisfactory SAT or ACT score and must provide proof of English proficiency by meeting one of the following test standards: a score of 500 or higher on the paper-based version of the Test of English as a Foreign Language (TOEFL), or a 61 or higher on the internet-based version of the TOEFL, or a 5.5 or higher on the International English Language Testing System (IELTS).

- Must provide financial certificate.
GENERAL ACADEMIC INFORMATION

THE UNDERGRADUATE CURRICULA

The undergraduate curricula offered at Southwestern Oklahoma State University are organized into two parts – a lower division (1000-2000 level courses) and an upper division (3000-4000 level courses). The lower-division courses are foundational in nature and are generally completed during the freshman and sophomore years. The upper-division courses generally completed during the junior and senior years are professional studies. (Some 5000-level advanced professional courses are included in the Pharmacy curriculum.)

Most undergraduate degree programs are designed to provide the student with the opportunity to elect both upper- and lower-division courses for exploratory purposes. Students are provided faculty advisors to assist in the development of their programs of study so that there will be a proper balance between required and elected courses.

The University Catalog and the Graduate Catalog are the sources of information for academic rules, regulations, procedures, and programs of study.

ACADEMIC FORGIVENESS PROVISIONS

The Oklahoma State Regents for Higher Education approved grading policy for state colleges and universities includes three academic forgiveness provisions. The repeated courses policy, the academic reprieve policy, and the academic renewal policy may help a student overcome low academic standing by establishing a retention and graduation grade point average in addition to the cumulative grade point average. Although the academic transcript will continue to be a full and accurate reflection of the student’s academic performance, the academic forgiveness provision will be reflected in the calculation of the retention and graduation grade-point average. Students who believe the academic forgiveness provisions may assist them in meeting academic goals may contact the Office of the Registrar for application forms and additional information.

AMERICANS WITH DISABILITIES

ACT AMENDMENTS ACT

The Americans with Disabilities Act Amendments Act (ADAAA) requires the provision of “reasonable accommodations” to those qualified individuals with disabilities by providing equal, non-discriminatory program access in the academic setting.

Students need to take the verifying documentation to the Dean of Students’ office where it will be kept confidential and private. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of, and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability. It is the student’s responsibility to request documentation from such professionals and to request a record of accommodations received at any other educational institution. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner after admission to allow time for the development and arrangement of appropriate accommodations. In some cases, as when books on tape need to be requested, documentation should be provided several weeks prior to the beginning of each semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University’s documentation guidelines are on the Dean of Students’ website or office, room 214, General Thomas P. Stafford Center (580) 774-3767. Please note: Students should be admitted to SWOSU before seeking accommodations from the Dean of Students.

ADVANCED STANDING

In most cases, advanced standing examinations are administered through the CLEP program. Any person interested in participating in this program should contact the Assessment Center. Advanced standing credit toward a degree is limited to 31 hours within each of the upper- and lower-division levels.

ADVISEMENT

Students are assigned a faculty advisor to assist with their academic planning. First-time entering freshmen are assigned advisors while participating in a New Student Orientation enrollment session. Other students are assigned faculty advisors during the admissions process. Information regarding the advisement process is available in the Dean of Students’ office.

ARTICULATION POLICY

Southwestern Oklahoma State University cooperates fully with the requirements of the Oklahoma State Regents for Higher Education Articulation Policy for transfer of students among institutions in the Oklahoma State System of Higher Education. A student who has been awarded the Associate of Arts or Associate of Science degree from an Oklahoma accredited college or junior college will have completed general education requirements if the degree program includes the minimum course requirements called for in the articulation policy and if Oklahoma State Regents’ requirements for the baccalaureate degree are met. (Note exceptions in teacher education and certain professional programs.)

Students with the Associate of Arts or Associate of Science degree from a regionally accredited out-of-state college will be given benefit of the Oklahoma articulation policy to the extent that their degree contains the minimum requirements of the policy.

ATTENDANCE

Students are expected to attend class. Attendance policies are set in each class by the instructor. The instructor will provide students with a written statement of these policies. In emergencies, notification of instructors of such absences may be made through the Dean of Students’ office.

An instructor may drop a student from class for excessive absences.
CLASSIFICATION

Freshman: A student with 0 to 29 semester hours of college credit.
Sophomore: A student with 30 to 59 semester hours.
Junior: A student with 60 to 89 semester hours.
Senior: A student with 90 or more semester hours.
Post Graduate: A student with a bachelor’s degree who is not currently pursuing advanced degrees.
Graduate: A student with a bachelor’s degree who is enrolled for graduate credit.
Exception: The classifications do not necessarily apply to students in the College of Pharmacy except for the purpose of eligibility for office in a student organization.

CREDITS

All credits are earned in semester hours. Semester hour credits are calculated as follows:

- One semester hour is awarded for a lecture class meeting one hour (50 minutes) per week and a minimum of two additional hours of work outside of class time for 16 weeks exclusive of enrollment, orientation, and vacation time. Lecture classes for two semester hours of credit will normally meet two days per week. Lecture classes for three semester hours of credit will normally meet three days per week, and so forth.
- One semester hour of credit will normally be awarded for a laboratory meeting a minimum of two hours per week for 16 weeks. Laboratories offered for multiple hours of credit will meet a minimum of two times the number of hours per week for 16 weeks as the number of semester hours credit to be awarded.
- Instruction offered through a combination of classes and laboratory meetings will normally observe the standards set forth in (1) and (2) above.

DEGREE REQUIREMENTS

The general education courses, two majors, a major-minor, or one major and one minor; and sufficient electives to make a total of 120 semester hours comprise the curriculum. The 120 semester hours of coursework does not include any physical education activities. (Exceptions for professional programs, e.g., pharmacy and teacher education are noted in the program section of the catalog.) To complete a degree, students must meet the following general requirements:

- A minimum of 120 semester hours of college credit with at least twice as many grade points as total hours of acceptable work (2.00 average on a 4.00 scale). Some degree programs require more than 120 semester hours of college credit to meet degree requirements. In cases involving work done at more than one college, the grade average must be attained in the work done at Southwestern Oklahoma State University, as well as in the total combined college work. (These are minimum academic grade standards. Some degree programs and professional programs require a higher grade-point average.)
- At least 40 semester hours of work must be at the senior college level (3000 and 4000 courses). A minimum of eight semester hours of coursework at the 3000- or 4000-level must be completed at Southwestern Oklahoma State University within the department of the major.
- A minimum of 30 semester hours of resident credit applied toward the bachelor’s degree shall be taken at the awarding institution, exclusive of correspondence work. In general, the residence work must include at least 15 of the final 30 credit hours that apply toward the degree or at least 50 percent of the hours required in the major field.
- A maximum of 60 semester credit hours taken at an accredited two-year institution, including the SWOSU at Sayre campus, may be applied toward the completion of a bachelor’s degree at SWOSU.
- Ordinarily, a student is expected to meet the degree provisions of the catalog course requirements in effect when the student enters the University. Revised degree requirements, unless specifically provided otherwise, are applicable only to those students entering the University after the revisions are adopted. However, when a long period of time has elapsed since a student began a program, the student may be required to meet current requirements.
- When the same course is required in the major and minor, another course of the same level or higher must be taken in order for the total hours to equal the graduation requirements.
- A student may receive a second bachelor’s degree (differing from the first) upon the completion of a minimum of 150 semester hours, provided all the requirements for the degree are met.

After meeting admission requirements to SWOSU, if a student wishes to enter a pre-professional program that does not require a degree, or if a student does not expect to graduate, the student may enroll as a special student and take the courses necessary for the specialized training. Such programs include commercial art and two-, three-, and four-year pre-professional curricula for students preparing for law, medicine, dentistry, and engineering. In general, work completed in these special programs will apply toward a degree. Students should work closely with the institutions to which they will transfer to insure transferability of credit.

ENGLISH PROFICIENCY PROGRAM

A quality education includes literacy in writing. A degree from Southwestern Oklahoma State University carries a certification that each baccalaureate graduate is proficient in the use of written English.

Every student seeking a baccalaureate degree must satisfactorily demonstrate proficiency in one of two ways: by earning a grade of “C” or higher in ENGL 1213 Freshman Composition II or by passing the English Proficiency Exam.

Students who earn a “D” in ENGL 1213 have passed the class but have not demonstrated proficiency; they may choose to demonstrate proficiency either by passing the examination or by retaking the course and earning a grade of “C” or higher.

The English Proficiency Exam is administered at the Assessment Center and evaluated by two or more English faculty members. Any student who has completed ENGL 1213 with a grade of “D” may request an appointment to take the exam at the Assessment Center.
ENROLLMENT

Southwestern Oklahoma State University uses an online computerized enrollment system, making pre-enrollment both quick and efficient. Complete enrollment information can be found in the current Class Schedule. Schedules are available on the SWOSU website at www.swosu.edu. (Beginning freshman with no college hours earned are required to attend a New Student Orientation session in order to enroll for the fall semester. Students who have been out of high school two or more years do not have to attend an NSO session. Contact the Office of the Registrar for enrollment procedures and advisor assignment.)

EXAMINATIONS

Examinations given during the semester are scheduled by the instructors. Final examinations, except in the College of Pharmacy, follow the University plan printed in the class schedules.

Students may drop classes up to five days prior to the beginning of finals. During the regular semesters, the three class days prior to the beginning of finals are considered "dead days" in that no graded assignments or activities are to be scheduled. Extracurricular events (other than unscheduled league play-off events) and required field trips are prohibited. Attendance policies will remain in force.

Examinations for single classes must follow the schedule. Multi-section examinations must be approved by the Vice President for Student Affairs one week before the first day of final examinations. In case of conflicts between single sections and multi-sections, the single section takes precedence for the student’s time.

If a student is unable to meet the regular examination schedule (no early final examinations), an “I” grade shall be reported.

FULL-TIME STUDENTS

Standard Term: Any course(s) that meets a full 16 weeks during the fall and spring semesters and 8 weeks for the summer. All full-time students are enrolled in a minimum of twelve (12) hours per semester and six (6) hours during a summer term. Three quarter-time students are enrolled in a minimum of nine (9) hours per semester and four (4) hours during a summer term. Half time students are enrolled in a minimum of six (6) hours per semester and three (3) hours during a summer term.

Non-Standard Term: Any term that does not meet the 16 week requirement stated above. All full-time students are enrolled in a minimum of six (6) hours per eight (8) week classes and three (3) hours per four (4) week term. Three quarter-time students are enrolled in a minimum of four (4) hours per eight (8) week classes and two (2) hours per 4 week term. Half time students are enrolled in a minimum of three (3) hours per eight (8) week classes and one point five (1.5) hours per 4 week term.

Enrollments that exceed nineteen (19) hours during the fall and spring semesters and nine (9) hours during the summer term are exceptions and must be approved by the Provost or Graduate Dean.

GRADE REPORTS

Final grade reports are no longer mailed at the end of each semester. Grades are available online through Campus Connect. Campus Connect allows student access to unofficial transcripts, grades, billing information, financial aid information, personal demographic information, and course availability information.

GRADES

Grade schedule: The quality of work done in classes is designated by the following schedule of grades:

A.........................................Excellent
B.........................................Good
C.........................................Average
D.................................Lowest Passing Grade
F.....................................Failure
I.......................................Incomplete
W...........................................Withdrawal
AW...........Administrative Withdrawal
S.............................Satisfactory
P..............................Pass
U.................................Failure
N......Grade Deferred
X.............Thesis in Progress
AU..............................Audit

Grade Points: Students earn grade points on this schedule:

A........4 points per semester hour
B..........3 points per semester hour
C........2 points per semester hour
D.........1 point per semester hour
F........0 points per semester hour
U........0 points per semester hour
S........0 points per semester hour

If a course is repeated, both grades are used in computing the student’s grade point average. A grade of “S”, “P”, “I”, “U”, “NP”, or “W” has no effect on the average.

Incomplete: A grade of “I” will be given to students who, because of illness or other unavoidable circumstances, cannot complete a course by the end of a semester. “I” grades not changed by the instructor to a credit-bearing grade or an “F” will remain a permanent “I” and not contribute to the GPA.

Withdrawal: Students may withdraw within the first (eleven) 11 weeks of class work during a regular semester or within the first six weeks of class work during the summer term and receive a grade of “W”. Instructors have the right to give a “W” as a final grade.

Students may withdraw with instructor permission up to five (5) days prior to the beginning of finals and receive a “W” for courses in which they are doing passing work and an “F” for courses in which they are failing.

Students who leave school without officially withdrawing may receive the grade of “F” for courses in which they are enrolled.

GRADUATION INFORMATION

Degrees are conferred at spring convocation. Those completing degree requirements at the end of a full semester may participate in the following spring convocation. Those completing degree requirements at the end of a summer or fall semester may participate in the preceding spring convocation.
December graduates may walk through the graduation ceremony early. For example, if a student is scheduled to graduate in December 2017, s/he may (1) walk through the ceremony in May 2014 (before graduating) or (2) walk through the ceremony in May 2018 (after graduating).

Southwestern Oklahoma State University grants Undergraduate degrees “with honors” as follows:

- Summa Cum Laude: 3.90
- Magna Cum Laude: 3.75
- Cum Laude: 3.50

Honors standing is determined by calculating the grade point average (GPA) for all credit hours attempted. The cumulative GPA, not the retention/graduate GPA is used in the calculation.

Application for Graduation forms should be completed in the office of the Registrar for bachelor’s degrees and in the Graduate Office for master’s degrees. Students finishing in either the fall or spring semester should apply for graduation at the beginning of the semester. Students completing degrees during the summer term should apply for graduation by mid-term of the spring semester.

Degrees are recorded on the student’s permanent academic record. Transcripts are available approximately one week after the close of each semester or term.

**HONOR ROLLS**

The undergraduate student’s semester record must have no grade of “I”, “U”, “F”, or “D” to be considered for the honor rolls. Types and qualifications for honor rolls are as follows:

**President’s Honor Roll**: Undergraduate students who complete 12 or more hours during a semester and earn a 4.00 grade point average qualify for this honor roll.

**Dean’s Honor Roll**: Undergraduate students who complete 12 or more hours during a semester and earn a 3.50 or higher grade point average qualify for this honor roll.

**KEYBOARDING PROFICIENCY PROGRAM**

Since the curricula of high schools universally include keyboarding instruction and training, demonstration of keyboarding proficiency is no longer required at SWOSU. However, to most effectively use the computer resources available at SWOSU, students are encouraged to ensure that they are proficient. Students should be able to keyboard at a minimum of 35 words per minute with not more than seven errors.

**LOAD/OVERLOAD**

Students who plan to graduate in four years should enroll in an academic course load of at least 16 credit hours each fall and spring semester.

**Undergraduate**: With approval of the advisor, a student may take a maximum of 19 hours during a regular semester and 9 hours during a summer term. With the approval of both the advisor and the Provost, a student may take a maximum of 24 hours during a regular semester and 12 hours during a summer term.

**Graduate**: A full-time student may enroll in 16 hours during a regular semester and nine hours during a summer term. The Dean of the Graduate School must approve an overload. An overload is defined as 17 or more hours during a regular semester and 10 or more during a summer term. A minimum graduate load during a regular semester is nine hours for full-time, seven hours for ¾ time, and five hours for ½ time. The corresponding standard for a summer term is four, three, and two respectively. The minimum-load definition also applies to one attending under Veteran Administration assistance. Students enrolled simultaneously in two or more institutions are bound by the load maximum stated above.

**PREREQUISITES**

The section of the catalog in which courses are listed and described includes a statement of prerequisites for courses requiring preliminary study.

**RETENTION STANDARDS**

The following standards relating to retention of students pursuing study in undergraduate programs will apply at Southwestern Oklahoma State University. For continued good academic standing, a student must have earned a cumulative grade point average as indicated below:

- One to 30 semester hours attempted...............1.70
- 31 or more semester hours attempted...........2.00

**NOTE**: Students who have attempted less than 31 semester hours will be placed on academic notice if the cumulative grade point is between 1.70 and 1.99.

Any student not maintaining satisfactory academic progress will be placed on probation for one semester. At the end of the semester, the student must have earned the minimum grade point average listed above in order to continue.

**Exception 1.** A student who achieved a grade point average of 2.00 or above in the last semester in which the student was enrolled will be considered to be making satisfactory progress, regardless of the cumulative grade point average. (Under these circumstances, a student will remain on probation until a 2.00 cumulative grade point average is achieved.)

**Exception 2.** A senior student who has failed to meet the cumulative grade point average (2.00) required for graduation may enroll in an additional 15 semester hours in further attempt to achieve the requirements for graduation.

Requirements for continued enrollment in certain professional programs are higher than those stated here. For information on retention standards of the professional programs, refer to that specific section of this catalog.
GENERAL EDUCATION

General Education at Southwestern Oklahoma State University emphasizes the learning of facts, values, understandings, skills, attitudes, and appreciations believed to be meaningful to all students because of their involvement as human beings and citizens preparing for the future. The General Education program incorporates the following outcomes:

- Proficiency in communication – these include skills and abilities to communicate effectively in writing and the ability to understand the ideas of others; to communicate one’s ideas through writing, speech, and symbols; to demonstrate clear and cohesive thought formulated for a specific audience; to think logically, critically, and creatively; and to use computers and other information technologies for inquiry and complex problem solving.

- Competency in scientific and quantitative reasoning – this includes an understanding of basic laws and concepts of science to solve issues encountered by society; a knowledge of the basic methodologies and phenomena of natural science; ability to analyze scientific discoveries and the advancement of technology with respect to its impact on social change; and application of quantitative concepts, principles, and symbols that draw meaningful conclusions from mathematical or statistical analysis.

- Appreciation of the fine arts, history, and humanities – this includes the analysis and comparison of important historical movements in the arts and humanities; the ability to explain and evaluate conceptual differences of important landmark contributions and creative works; and the ability to analyze meanings associated with human culture and their significance in social development.

- Knowledge of social and cultural beings and their institutions – this includes studies of behavioral aspects of individuals and society and past and present world cultures; a knowledge of current social issues and trends of international interaction and strategies to enhance global relationships; the ability to communicate social responsibility of issues and identify ethical perspectives that guide solutions; and analyze key historical events and their impact on social, cultural, and global change.

- Achievement of intellectual and professional aptitudes – this includes the construction of systematic investigation of content, theories, and practices that evaluate real life settings; development of authentic creative works related to studies of interest; the engagement of collaborative group activities that contribute information and resources to accomplish group goals; participation in community service activities and reflection on individual and collective solutions to community problems; and the communication of collective understanding of diverse views and the ability to integrate differing perspectives into a cohesive solution for real life circumstances.

GENERAL EDUCATION GUIDELINES

- All students must complete an approved General Education program in order to graduate from a college or university in the Oklahoma State System of Higher Education. At Southwestern Oklahoma State University, because of differing curriculum and/or accreditation requirements, some degree programs follow slightly different course sequences than the General Education requirements listed on this page. The specific General Education requirements approved for each degree program are listed with the academic requirements.

- Students entering Southwestern must meet General Education requirements listed in the current catalog for graduation. (For certification and license requirements, refer to specific programs.)

- Courses satisfying General Education course requirements cannot be used to satisfy requirements in the major, major/minor, and/or minor.

- Some General Education course requirements may be met via CLEP, AP, International Baccalaureate, and other advanced standing tests.

- A maximum of 10 credit hours of General Education credit may be substituted through alternative courses. Any substitution of alternative courses must address all General Education outcomes indicated for the General Education course for which the substitution is requested. All alternative courses must be approved by the appropriate academic departments for course content equivalency and the General Education Committee.

- Mid-level assessment is accomplished within the General Education courses. Faculty use curriculum-embedded methods such as exams, papers, projects, etc. for improvement of instruction.

General Education Curriculum

TOTAL GENERAL EDUCATION HOURS .................. Min. 40
REQUIRED CORE COURSES ...................................... 31-35

Written Communication .......................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics .......................................................... 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History .......................................................... 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ............................................. 3
POLSC 1103 American Government & Politics
ELECTIVES to bring GE total hours to 40

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** .................................................. 3-4
- BIOL 1004 Biological Concepts w/Lab
- BIOL 1013 Current Issues in Biology
- BIOL 1054 Principles of Biology I w/Lab

**Physical Science** .................................................. 3-4
- ASTRO 1904 Astronomy
- CHEM 1004 General Chemistry w/Lab
- GEOL 1934 Physical Geology w/Lab
- SCI 1501 Concepts of Physical Science Lab
- SCI 1513 Conc of Phy Science (can be taken w/wo lab)
- PHY 1044 Basic Physics I w/Lab
- PHY 1063 General Physics (or a higher numbered chemistry or physics course)

**Humanities** .................................................. 6
- HUM 1103 Introduction to Humanities
- OR
- HIST 1033 World History

**AND** one of the following:

- ART 1223 Art Survey
- COMM 1263 Introduction to Theatre
- LIT 2333 Introduction to Film
- LIT 2413 Introduction to Literature
- MUSIC 1013 Introduction to Music I
- MUSIC 1103 Music and Culture
- PHILO 1453 Introduction to Philosophy

**Human, Cultural, & Social Diversity** .................................................. 3-4

Select one course.

- ASL 2163 American Sign Language I
- CATC 1204 Cheyenne Language I (or higher number)
- CATC 1254 Arapaho Language I (or higher number)
- COMM 1313 Introduction to Public Speaking
- ECONO 2263 Intro to Macroeconomics
- ECONO 2363 Intro to Microeconomics
- GEOG 1103 World Cultural Geography
- ITAL 1004 Elementary Italian I
- KINES 1133 Wellness Conc & Exercise Applications
- LATIN 1054 Elementary Latin I (or higher number)
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology
- SPAN 1054 Elementary Spanish I (or higher number)
- TECH 1223 Technology and Society

**Computer Proficiency** .................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**ELECTIVES to bring GE total hours to 40** .................................................. 5-9

Select courses from at least 2 areas. Any courses not taken to meet core requirements may satisfy the 2 areas. No course may be counted twice. Many courses are not offered every semester; refer to semester class schedules, or check course descriptions for frequency of offering.

**COMMUNICATION & SYMBOLS**
- ACCTG 2213 Principles of Financial Accounting
- ALHLT 2453 Medical Terminology
- ALHLT 3043 Health Statistics
- COMM 1313 Introduction to Public Speaking
- COMM 2103 Introduction to Mass Communication
- COMM 2113 Writing for Mass Media
- COMSC 1023 Computer & Info Access
- COMSC 1033 Computer Science I
- COMSC 1433 Visual Basic Programming
- ECONO 2463 Business Statistics
- ENGL 2713 Creative Writing – Poetry (Sayre)*
- ENGL 3013 Writing Theory and Practice*
- ENGL 3473 Creative Writing of Fiction I*
- ENGL 3483 Creative Writing of Poetry I*
- ENGL 3653 Writing in the Disciplines*
- ENGL 4423 Introduction to Linguistics*
- LIBED 3423 Media & Technology
- MATH 1143 Mathematical Concepts
- MATH 1153 Mathematical Applications
- MATH 1513 College Algebra
- MATH 1613 College Trigonometry*
- MATH 1834 Calculus I*
- MATH 2823 Applied Calculus*
- MATH 2834 Calculus II*
- MATH 3413 Statistical Methods I*
- MATH 3453 Mathematical Statistics*
- PSYCH 2433 Psychological Statistics*
- TECH 3143 Technical Presentations*

**SOCIAL, POLITICAL, & ECONOMIC INSTITUTIONS**
- CATC 2133 Tribal Government I
- COMSC 1103 Introduction to Information Security
- CRMJS 1113 Introduction to Criminal Justice
- CRMJS 1223 Introduction to Law Enforcement
- ECONO 2263 Introduction to Macroeconomics
- ECONO 2363 Introduction to Microeconomics
- EDUC 2113 Foundations of Education
- ENTRP 1123 Introduction to Business
- POLSC 2303 Comparative Politics*
- POLSC 2623 Criminal Law and Procedure*
- POLSC 2803 The Judicial Process*
- PSYCH 2423 Social Psychology*
- SOCIO 1003 Introduction to Sociology
- TECH 1223 Technology and Society

**RELATIONSHIPS IN NATURE & SCIENCE**
- ASTRO 1904 Astronomy
- BIOL 1004 Biological Concepts w/lab
- BIOL 1013 Current Issues in Biology
- BIOL 1054 Principles of Biology I w/lab
BIOL 1254 Principles of Biology II w/lab*
BIOL 2205 Hum Anatomy & Phys w/lab* (Sayre)
CHEM 1004 General Chemistry w/lab
GEOL 1934 Physical Geology w/lab
PHY 1044 Basic Physics I w/lab
PHY 1063 General Physics
PSYCH 1003 General Psychology
SCI 1513 Concepts of Physical Science
SCI 1501 Concepts of Physical Science Lab
TECH 1101 Introduction to Technology
TECH 1223 Technology & Society
TECH 1713 Basic Electrical Science*

HUMAN HERITAGE, CULTURE, VALUES & BELIEFS
ASL 2163 American Sign Language I
ART 1113 Fundamentals of Art
ART 1223 Art Survey
CATC 1111 Intro to American Indian Studies
CATC 1204 Cheyenne Lang I (or higher number)
CATC 1254 Arapaho Lang I (or higher number)
CATC 1413 American Indian Belief Systems
CATC 1553 Literature of the American Indian
CATC 1563 Music of the American Indian
CATC 2143 Art History of the Plains Indian
CATC 2603 Cheyenne and Arapaho History
COMM 1263 Introduction to Theatre
COMM 3573 Intercultural Communication
GEOG 1103 World Cultural Geography
HIST 1003 Early World History (Sayre)
HIST 1023 Modern World History
HIST 1033 World History
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877
HIST 3613 World Religions*
HIST 4133 Women in American History*
HUM 1103 Introduction to Humanities
ITAL 1004 Elementary Italian I
KINES 1133 Wellness Conc & Exercise Applications
KINES 1153 Nutrition
LATIN 1054 Elementary Latin I (or higher number)
LIT 1123 Introduction to Fiction (Sayre)
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
LIT 3033 World Mythology*
LIT 3343 World Folk Literature*
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
MUSIC 1023 History of Jazz
MUSIC 1123 History of Rock and Roll
PHILO 1453 Introduction to Philosophy
PSYCH 3243 Cross-Cultural Psychology*
SOCIO 2103 Social Problems (Sayre)
SPAN 1054 Elem Spanish I (or higher number)
SPAN 3553 Hispanic Life and Culture
SPAN 3653 Intermediate Spanish Conversation
The College of Arts and Sciences offers a wide variety of professional and general education programs that also underpin and reinforce all the other programs of the University. The college boasts seven departments: Art, Communication and Theatre; Biological Sciences; Chemistry and Physics; Language and Literature; Mathematics; Music and Social Sciences. These departments offer programs leading to the Bachelor of Arts, the Bachelor of Science, and other baccalaureate degrees including an Interdisciplinary Studies option. They also offer a wide range of minor programs of study and provide pre-professional programs in Communication Sciences and Disorders, Dental Hygiene, Dentistry, Engineering, Law, Medicine, Nutritional Science, Occupational Therapy, Optometry, Physical Therapy, Physician Associate, Medical Imaging and Radiation Sciences and Veterinary Medicine.

The faculty in the College of Arts and Sciences strive for excellence in teaching, exhibit a professional work ethic, and foster working relationships with students. Quality advisement and caring about the student as an individual are essential components of the college experience.

Graduates from the programs in the College of Arts and Sciences are provided the preparation required for careers, professional schools, or post-baccalaureate education in their major areas of study. Central to this preparation is their development as lifelong learners with the communication and analytical skills necessary to function in our technical and diverse society. They are also provided with a curriculum which fosters understanding and appreciation of multi-cultural diversity, fine arts and humanities, mathematics, science and technology, and the personal rewards of learning and living.

We expect our graduates not only to excel within their major areas of study but also to be knowledgeable and participating members of the local, state, national, and global community.

Each department in the College of Arts and Sciences establishes goals specific to its program, which leads to a quality education.

**Degrees Offered**

**DEPARTMENT OF ART, COMMUNICATION, AND THEATRE**
- Bachelor of Fine Arts
  - Graphic Design
  - 2-D Studio Art
  - 3-D Studio Art
- Bachelor of Arts
  - Communication Arts (Mass Comm. Emphasis)
  - Communication Arts (Comm. Studies Emphasis)
  - Communication Arts (Theatre Emphasis)
- Bachelor of Arts in Education
  - Art Education

**DEPARTMENT OF BIOLOGICAL SCIENCES**
- Bachelor of Science
  - Biological Sciences
  - Biological Sciences (Biomedical Sciences Option)
  - Biological Sciences (Organismal and Environmental Biology Option)
  - Microbiology
  - Microbiology (Medical Laboratory Science Option)
  - Biological Sciences and Microbiology (Medical Laboratory Science Option) (Dual Degree)
- Bachelor of Science in Education
  - Natural Science Education

**DEPARTMENT OF CHEMISTRY AND PHYSICS**
- Chemistry
  - Bachelor of Arts
    - Biochemistry (Emphasis)
    - Environmental Chemistry (Emphasis)
  - Bachelor of Science
  - Bachelor of Science (Professional Program)
- Physics
  - Bachelor of Science (Engineering Physics)

**INTERDISCIPLINARY STUDIES DEGREE PROGRAM**
- Bachelor of Arts

**DEPARTMENT OF LANGUAGE AND LITERATURE**
- Bachelor of Arts
  - English (Writing Emphasis)
  - English (Literature Emphasis)
- Bachelor of Arts in Education
  - English Education

**DEPARTMENT OF MATHEMATICS**
- Bachelor of Science
- Bachelor of Science in Education
  - Math Education

**DEPARTMENT OF MUSIC**
- Bachelor of Music
  - Performance (Piano or Organ)
  - Performance (Voice)
  - Performance (Orchestral Instruments)
  - Music Therapy (Instrumental)
  - Music Therapy (Vocal/Keyboard)
- Bachelor of Music Education
  - Instrumental/General Music
  - Vocal/General Music

**DEPARTMENT OF SOCIAL SCIENCES**
- Bachelor of Arts (Criminal Justice)
- Bachelor of Arts (History)
- Bachelor of Arts (Political Science)
- Bachelor of Arts in Education
  - History Education
DEPARTMENT OF ART, COMMUNICATION AND THEATRE
COLLEGE OF ARTS AND SCIENCES

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Robin Jones .................................. ART 322 .................. robin.jones@swosu.edu ................................................................. (580) 774-3080
Todd Parker .................................. ART 409 .................. todd.parker@swosu.edu ................................................................. (580) 774-3032
Siriporn Peters ................................ ART 201 .................. siriporn.peters@swosu.edu ................................................................. (580) 774-7108
Jessica Salmans ............................... ART 310 ............. jessica.salmans@swosu.edu ................................................................. (580) 774-7046
Lisa Schroeder ................................ CAM 211 .................. lisa.schroeder@swosu.edu ................................................................. (580) 774-3241
Steve Strickler ................................ ART 308 .................. steve.strickler@swosu.edu ................................................................. (580) 774-3082

DEPARTMENTAL GOALS
1. To prepare students for entry into professions related to communication, theatre, and mass communication.
2. To equip students with skills in public speaking, particularly research, organization, and delivery.
3. To provide opportunities for students to develop skills in acting, design, theatre technology and production through hands-on experience in an active theatre performance program.
4. To expose students to historical and contemporary practices in communication arts.
5. To facilitate students’ understanding of the dynamics of human communication.
6. To encourage students to become more analytical and critical of the mass media.
7. To provide opportunities for students to develop marketable skills in print, broadcast, media and online.
8. To assist students in developing critical thinking skills.
9. To provide opportunities for students to improve their communication skills through student publications and productions.
10. To make students aware of the increasing demand for effective communicators in the work force.
11. To develop students’ appreciation of theatre arts for personal and community enrichment.
12. To provide educational and technological opportunities which meet the needs of the communication age and media convergence.
13. To provide students and community with a broad range of cultural and scholarly experiences, which would help educate on issues related to age, gender, and ethnic diversity.
14. Prepare students for careers or graduate work in art.
15. Provide a supportive and enriching understanding of artistic expression.
16. Help students develop visual methods of communication.

PROGRAMS OF STUDY

MAJORS
- B.A.Ed. Art Education (Listed in Dept. of Education)
- B.F.A. in Graphic Design
- B.F.A. in 2-D Studio Art
- B.F.A. in 3-D Studio Art
- B.A. Communication Arts
  - Communication Studies Emphasis
  - Mass Communication Emphasis
  - Theatre Emphasis

MINORS
- Art
- Art History
- Graphic Design
- Communication Arts
- Public Relations

MASTER
- M.Ed. Art
  (See Graduate Catalog for additional information.)

GENERAL INFORMATION
Through a sequential program, students are given opportunities to obtain a Bachelor of Fine Arts degree in Art, or a Bachelor of Arts degree in Art Education. Both of these programs include foundational art classes as well as an exciting choice of studio classes.

The Art Education program prepares the student for an art career in public education, while the Art program prepares the art student for a career in the studio art or design professions. Both areas cover theory as well as practice.

Art majors may seek a B.F.A. with an emphasis in one of three areas: 2-D studio art (drawing, painting, printmaking), 3-D studio art (ceramics and pottery, sculpture, applied design), or Graphic Design, which offers comprehensive training in the use of design-related software, preparing students for careers in the graphic-design industry. Students majoring in Art Education will be trained in methods and materials, and will also have opportunities for classroom observation and internship.
Communication Arts offers numerous opportunities for students to practice their skills as speakers, actors, directors, designers, editors, writers, broadcasters and reporters.

Student publications range from a weekly student newspaper to an alumni magazine. The department majors also produce a weekly television news program.

A full season of theatre is presented yearly with classics, children's theatre, musicals and modern pieces presented regularly. Student organizations and activities supported by the department include Hilltop Players, Southwestern Communication Association, the University Media Association, the Bulldog Broadcasting Network and Midnight Theatre.

For more information visit our web site at:
http://www.swosu.edu/academics/art-comm-theatre
GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

TOTAL GENERAL EDUCATION HOURS ........................................... \*Min. 40
REQUIRED CORE COURSES......................................................... 31-35

Written Communication......................................................... 6

**ENGL 1113** English Composition I
**ENGL 1213** English Composition II

**Mathematics**........................................................................... 3

Select one course.

- **MATH 1143** Mathematical Concepts
- **MATH 1153** Mathematical Applications
- **MATH 1513** College Algebra
- or a higher numbered math course

**U.S. History**............................................................................. 3

Select one course.

- **HIST 1043** U.S. History to 1877
- **HIST 1053** U.S. History since 1877

**American Government**........................................................... 3

**POLSC 1103** American Government & Politics

**Science**.................................................................................... 7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science**........................................................................... 3-4

- **BIOL 1004** Biological Concepts w/Lab
- **BIOL 1054** Principles of Biology I w/Lab
- **BIOL 1013** Current Issues in Biology

**Physical Science**..................................................................... 3-4

- **ASTRO 1904** Astronomy
- **CHEM 1004** General Chemistry w/Lab
- **GEOL 1934** Physical Geology w/Lab
- **SCI 1513** Conc of Phy Science (may also take w/lab)
- **SCI 1501** Concepts of Phy Science Lab
- **PHY 1044** Basic Physics I w/Lab
- **PHY 1063** General Physics
- or a higher numbered chemistry or physics course

**Humanities**............................................................................. 6

- **HUM 1103** Introduction to Humanities
- **HIST 1033** World History
- **AND**
- **ART 1223** Art Survey

**Human, Cultural, & Social Diversity**........................................ 3-4

Select one course.

- **ASL 2163** American Sign Language
- **CATC 1204** Cheyenne Language I (or higher number)
- **CATC 1254** Arapaho Language I (or higher number)
- **COMM 1313** Introduction to Public Speaking
- **ECON 2263** Intro to Macroeconomics
- **ECNO 2363** Intro to Microeconomics
- **EGEO 1103** World Cultural Geography
- **ITAL 1004** Elementary Italian I
- **KINES 1133** Wellness Concepts & Exercise Applications
- **LATIN 1054** Elementary Latin I (or higher number)
- **PSYCH 1003** General Psychology
- **SOCIO 1003** Introduction to Sociology
- **SPAN 1054** Elementary Spanish I (or higher number)
- **TECH 1223** Technology and Society

**Computer Proficiency**............................................................ 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .......... to total 40

**Graphic Design Option**

\*Denotes upper level studio classes that are repeatable twice.

**Required Art & Design Courses** (for all BFA option areas) ....... 14

- **ART 1123** Foundations I
- **ART 1133** Foundations II
- **ART 1143** Foundations III
- **ART 1661** Computer Applications
- **ART 2133** Introduction to Graphic Design
- **ART 4651** Senior Exhibit

**Required Major Courses**....................................................... 36

- **ART 3513** Intermediate Graphic Design I
- **ART 3783** Intermediate Graphic Design II
- **ART 3853** Typographic Design
- **ART 3883** Advertising Design
- **ART 3923** Advanced Graphic Design I
- **ART 3953** Prof Practices of Graphic Design
- **ART 3012** Seminar in Art‡ (4 hrs required)
- **ART 2002** Individual Study in Art‡
- **ART 4002** Individual Study in Art‡
- **ART 3212** Aesthetics and Art Criticism‡
- **ART 4012** Seminar in Art‡
- **ART 4163** Portfolio
- **ART 4413** Advanced Graphic Design II

**Elective Studio Art Courses**.................................................... 18

- **ART 1153** Intro to Photography
- **ART 2113** Acrylic Techniques
- **ART 3113** Watercolor Studio‡
- **ART 3153** Figure Drawing‡
- **ART 3483** Printmaking Studio‡
- **ART 3753** Life Drawing‡
- **ART 4313** Painting Studio‡
- **ART 3353** Clay Studio‡
- **ART 3413** Sculpture Studio‡
- **ART 3303** Mixed Media‡
- **ART 4253** Applied Design
- **ART 3223** Tapestry‡
- **ART 4001** Individual Study in Art‡
- **ART 4002** Individual Study in Art‡

**Art History** (choose four courses, including ART 2143 and 4393).... 12

- **ART 2143** History and Theory of Graphic Design
- **ART 3593** American Art History
- **ART 3613** History of Art I
- **ART 3653** History of Art II
- **ART 4353** Modern Art History
- **ART 4383** Art History Since 1945

**ART 4393** Non-Western Art History

**Total for Major Area**............................................................... 80

*Denotes upper level studio classes that are repeatable twice.

**Total Hours for Degree**......................................................... 120

For the minor program, refer to the Art minor in the Minor Programs of Study.

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation........................................ 120
Minimum credit hours in the liberal arts & sciences......................... 80
Minimum credit hours in upper-division (3000-4000 courses).............. 40
Minimum credit hours in upper-division (3000-4000 courses) in major completed at SWOSU.................................................. 8
Minimum credit hours at SWOSU (15 of the last 30)......................... 30
Minimum Grade Point Average in all coursework.......................... 2.50
Minimum Grade Point Average in major...................................... 3.00
# GRAPHIC DESIGN (Code 102)

**Suggested Course Sequence**

### FIRST YEAR

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### THIRD YEAR

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* First time entering Freshmen need to take 1001 Freshman Orientation.
**BACHELOR OF FINE ARTS**  
**TWO-DIMENSIONAL STUDIO (Code No. 108)**

### GENERAL EDUCATION
Courses that are **required** are in bold type.  
Courses that are **recommended** are in italics.  

**TOTAL GENERAL EDUCATION HOURS**  
Min. 40  
**REQUIRED CORE COURSES**  
31-35

**Written Communication**  
6

#### ENGL
1113 English Composition I  
1213 English Composition II

#### Mathematics
3

Select one course:

- MATH 1143 Mathematical Concepts  
- MATH 1153 Mathematical Applications  
- MATH 1513 College Algebra  
- or a higher numbered math course

**U. S. History**  
3

Select one course:

- HIST 1043 U.S. History to 1877  
- HIST 1053 U.S. History since 1877

**American Government**  
3

#### POLSC
1103 American Government & Politics

**Science**  
7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

#### Life Science
3-4

- BIOL 1004 Biological Concepts w/Lab  
- BIOL 1054 Principles of Biology I w/Lab  
- BIOL 1013 Current Issues in Biology

#### Physical Science
3-4

- ASTR 1904 Astronomy  
- CHEM 1004 General Chemistry w/Lab  
- GEOL 1934 Physical Geology w/Lab  
- SCI 1513 Concepts of Phy Science (may take w/lab)  
- SCI 1501 Concepts of Phy Science Lab  
- PHY 1044 Basic Physics I w/Lab  
- PHY 1063 General Physics  
- or a higher numbered chemistry or physics course

**Humanities**  
6

- HUM 1103 Introduction to Humanities  
- OR  
- HIST 1033 World History  
- AND

**ART**  
1223 Art Survey

**Human, Cultural, & Social Diversity**  
3-4

Select one course:

- ASL 2163 American Sign Language  
- CATH 1204 Cheyenne Language I (or higher number)  
- CATH 1254 Arapaho Language I (or higher number)  
- COMM 1313 Introduction to Public Speaking  
- ECON 2263 Intro to Macroeconomics  
- ECON 2363 Intro to Microeconomics  
- GEOG 1103 World Cultural Geography  
- ITAL 1004 Elementary Italian I  
- KINES 1133 Wellness Concepts & Exercise Applications  
- LATIN 1054 Elementary Latin I (or higher number)  
- PSYCH 1003 General Psychology  
- SOCIO 1003 Introduction to Sociology  
- SPAN 1054 Elementary Spanish I (or higher number)  
- TECH 1223 Technology and Society

**Computer Proficiency**  
0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)**  
to total 40

---

**Two-Dimensional Studio Option**

brace denotes upper level studio classes that are repeatable twice.

**Required Art & Design Courses**  
(for all BFA option areas)  
14

- ART 1123 Foundations I  
- ART 1133 Foundations II  
- ART 1143 Foundations III  
- ART 1661 Computer Applications  
- ART 2133 Introduction to Graphic Design  
- ART 4651 Senior Exhibit

**Required Major Courses**  
36

- ART 2113 Acrylic Techniques  
- ART 3113 Watercolor Studio‡  
- ART 3153 Figure Drawing‡  
- ART 3483 Printmaking Studio‡  
- ART 3683 Illustration Studio‡  
- ART 3753 Life Drawing‡  
- ART 4313 Painting Studio‡  
- ART 4333 Studio Drawing‡  
- ART 3012 Seminar in Art‡ (4 hrs required)  
- ART 2002 Individual Study in Art‡  
- ART 4002 Individual Study in Art‡  
- ART 3212 Aesthetics and Art Criticism‡  
- ART 4012 Seminar in Art‡

**Elective Studio Art Courses (chosen from this list)**  
18

- ART 1153 Intro to Photography  
- ART 3113 Watercolor Studio‡  
- ART 3153 Figure Drawing‡  
- ART 3483 Printmaking Studio‡  
- ART 3753 Life Drawing‡  
- ART 4313 Painting Studio‡  
- ART 3353 Clay Studio‡  
- ART 3413 Sculpture Studio‡  
- ART 3383 Mixed Media‡  
- ART 4253 Applied Design  
- ART 3513 Intermediate Graphic Design I  
- ART 3223 Tapestry‡  
- ART 4001 Individual Study in Art‡  
- ART 4002 Individual Study in Art‡

**Art History (choose 3 courses plus ART 4393)**  
12

- ART 2143 History & Theory of Graphic Design  
- ART 3593 American Art History  
- ART 3613 History of Art I  
- ART 3653 History of Art II  
- ART 4353 Modern Art History  
- ART 4383 Art History Since 1945  
- ART 4393 Non-Western Art Survey

**Total**  
80

**Total Hours for Degree**  
120

---

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation: 120

Minimum credit hours in the liberal arts & sciences: 80

Minimum credit hours in upper-division:

- 3000-4000 courses: 40

Minimum credit hours (3000-4000 courses) in major completed at SWOSU: 8

Minimum credit hours at SWOSU (15 of the last 30): 30

Minimum Grade Point Average in all coursework: 2.50

Minimum Grade Point Average in major: 3.00
TWO-DIMENSIONAL STUDIO (Code 108)
Suggested Course Sequence

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* First time entering Freshmen need to take 1001 Freshman Orientation.
BACHELOR OF FINE ARTS
THREE-DIMENSIONAL STUDIO (Code No. 111)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ......................................................... Min. 40

REQUIRED CORE COURSES ........................................................................... 31-35

Written Communication ....................................................................................... 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II

Mathematics ........................................................................................................3
Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
  or a higher numbered math course

U. S. History .......................................................................................................... 3
Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government .......................................................................................... 3
  POLS 1103 American Government & Politics

Science ................................................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ......................................................................................................... 3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology

Physical Science ................................................................................................. 3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take lab)
  SCI 1501 Concepts of Phy Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
  Or a higher numbered chemistry or physics course

Humanities ........................................................................................................... 6
  HUM 1103 Introduction to Humanities
  OR
  HIST 1033 World History
  AND
  ART 1223 Art Survey

Human, Cultural, & Social Diversity ..................................................................... 3-4
Select one course.
  ASL 2163 American Sign Language
  CATC 1204 Cheyenne Language I (or higher number)
  CATC 1254 Arapaho Language I (or higher number)
  COMM 1313 Introduction to Public Speaking
  ECON 2263 Intro to Macroeconomics
  ECON 2363 Intro to Microeconomics
  GEOG 1103 World Cultural Geography
  ITAL 1004 Elementary Italian I
  KINES 1133 Wellness Concepts & Exercise Applications
  LATIN 1054 Elementary Latin I (or higher number)
  PSYCH 1003 General Psychology
  SOCIO 1003 Introduction to Sociology
  SPAN 1054 Elementary Spanish I (or higher number)
  TECH 1223 Technology and Society

Computer Proficiency .......................................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ........................................... to total 40

Three-Dimensional Studio Option
‡ Denotes upper level studio classes that are repeatable twice.

Required Art & Design Courses (for all BFA option areas) ..............................14
  ART 1123 Foundations I
  ART 1133 Foundations II
  ART 1143 Foundations III
  ART 1661 Computer Applications
  ART 2133 Introduction to Graphic Design
  ART 4651 Senior Exhibit

Required Major Courses .......................................................................................36
  ART 3353 Clay Studio
  ART 3383 Mixed Media‡
  ART 3413 Sculpture Studio‡
  ART 4253 Applied Design
  ART 3012 Seminar in Art‡ (4 hrs required)
  ART 2002 Individual Study in Art‡
  ART 4002 Individual Study in Art‡
  ART 3212 Aesthetics and Art Criticism‡
  ART 4012 Seminar in Art‡

Elective Studio Art Courses (chosen from this list) ............................................18
  ART 1153 Intro to Photography
  ART 3113 Watercolor Studio‡
  ART 3153 Figure Drawing‡
  ART 3483 Printmaking Studio‡
  ART 3753 Life Drawing‡
  ART 4313 Painting Studio‡
  ART 3513 Intermediate Graphic Design I
  ART 3223 Tapestry‡
  ART 4001 Individual Study in Art‡
  ART 4002 Individual Study in Art‡

Art History (Choose 3 courses plus ART 4393) ...........................................12
  ART 2143 History & Theory of Graphic Design
  ART 3593 American Art History
  ART 3613 History of Art I
  ART 3653 History of Art II
  ART 4353 Modern Art History
  ART 4383 Art History Since 1945
  ART 4393 Non-Western Art Survey

Total for Major Area ............................................................................................. 80

Total Hours for Degree .......................................................................................120

For the minor program, refer to the Art minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ......................................................... 120
Minimum credit hours in the liberal arts & sciences .................................. 80
Minimum credit hours in upper-division (3000-4000 courses) ............ 40
Minimum credit hours in major completed at SWOSU. ......................... 8
Minimum credit hours at SWOSU (15 of the last 30) .......................... 30
Minimum Grade Point Average in all coursework .............................. 2.50
Minimum Grade Point Average in major ............................................ 3.00
### THREE-DIMENSIONAL STUDIO (Code 111)

#### Suggested Course Sequence

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* First time entering Freshmen need to take 1001 Freshman Orientation.
BACHELOR OF ARTS
COMMUNICATION ARTS (Code No. 185)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

**TOTAL GENERAL EDUCATION HOURS** ........................................ Min. 40

**REQUIRED CORE COURSES** ..................................................... 31-35

**Written Communication** .......................................................... 6

- **ENGL 1113** English Composition I
- **ENGL 1213** English Composition II

**Mathematics** ................................................................. 3

*Select one course.*
- **MATH 1143** Mathematical Concepts
- **MATH 1153** Mathematical Applications
- **MATH 1513** College Algebra
  or a higher numbered math course

**U. S. History** ................................................................. 3

*Select one course.*
- **HIST 1043** U.S. History to 1877
- **HIST 1053** U.S. History since 1877

**American Government** .................................................. 3

- **POLSC 1103** American Government & Politics

**Science** ........................................................................ 7-8

*Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.*

**Life Science** ................................................................. 3-4

- **BIOL 1004** Biological Concepts w/Lab
- **BIOL 1054** Principles of Biology I w/Lab
- **BIOL 1013** Current Issues in Biology

**Physical Science** ............................................................. 3-4

- **ASTRO 1904** Astronomy
- **CHEM 1004** General Chemistry w/Lab
- **GEOL 1934** Physical Geology w/Lab
- **SCI 1513** Conc of Phy Science (may also take w/lab)
- **SCI 1501** Concepts of Phy Science Lab
- **PHY 1044** Basic Physics I w/Lab
- **PHY 1063** General Physics
  or a higher numbered chemistry or physics course

**Humanities** ................................................................. 6

- **HUM 1103** Introduction to Humanities
- **OR**
- **HIST 1033** World History

*AND one of the following:*
- **ART 1223** Art Survey
- **COMM 1263** Introduction to Theatre
- **LIT 2333** Introduction to Film
- **LIT 2413** Introduction to Literature
- **MUSIC 1013** Introduction to Music I
- **MUSIC 1103** Music and Culture
- **PHILOS 1453** Introduction to Philosophy

**Human, Cultural, & Social Diversity** ........................................ 3

- **COMM 1313** Introduction to Public Speaking

**Computer Proficiency** .................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives** (from at least two different categories) .......... to total 40

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Communication Arts Major

**Core Curriculum** .......................................................... 9

- **COMM 1263** Introduction to Theatre
- **COMM 2103** Introduction to Mass Communication
- **COMM 2123** Interpersonal Communication

**Choose an option below** .................................................. 30-31

**Communication Studies Option** ...................................... 22

**Required** ................................................................. 25

- **COMM 2223** Intro to Communication Studies
- **COMM 3073** Persuasion
- **COMM 3543** Small Group Communication
- **COMM 3563** Argumentation and Debate
- **COMM 3573** Intercultural Communication
- **COMM 4343** Communication Theory
- **COMM 4363** Organizational Communication
- **COMM 4121** Senior Seminar

**Electives** ............................................................... 9

**Theatre Option** .......................................................... 25

**Required** ................................................................. 21

- **COMM 2363** Acting I
- **COMM 2763** Stage Craft
- **COMM 3663** Script Analysis
- **COMM 3761** Theatre Production (4 hours required)
- **COMM 4463** Theatre History: Greek to 1660
- **COMM 4483** Play Directing & Production
- **COMM 4663** Theatre History: 1660 to Present

Choose three hours from the following:

- **COMM 3023** Lighting Design
- **COMM 3763** Stage Management
- **COMM 4403** Scene Design

**Electives** ............................................................... 6

**Mass Communication Option** ........................................ 21

**Required** ................................................................. 21

- **COMM 2113** Writing for Mass Media
- **COMM 2213** News Gathering and Reporting
- **COMM 3113** News Editing
- **COMM 3413** Desktop Publishing
- **COMM 3613** Specialized Publications
- **COMM 4243** Media Production
- **COMM 4293** Media Law and Ethics

**Electives** ............................................................... 9

**Minor** ................................................................. 18-24

**Electives to bring total to 120** ....................................... 16-23

**TOTAL HOURS** ......................................................... 120

For the minor program, refer to the Communication & Theatre
minor in the Minor Programs of Study.

Students must participate in an exit assessment interview
conducted by a faculty committee or the department chair.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation .................................. 120
Minimum credit hours in the liberal arts & sciences ............. 80
Minimum credit hours in upper-division courses (3000/4000 courses) ................................................................. 40
Minimum credit hours in upper-division courses where conducted at SWOSU ......................................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ............ 30
Minimum Grade Point Average in all coursework ................. 2.00
Minimum Grade of C in all major courses
### COMMUNICATION ARTS
### COMMUNICATION STUDIES EMPHASIS (Code 185)
#### Suggested Course Sequence
If you begin in the Fall of an EVEN numbered year

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* First time entering Freshmen need to take 1001 Freshman Orientation.
## COMMUNICATION ARTS
### COMMUNICATION STUDIES EMPHASIS (Code 185)
#### Suggested Course Sequence
If you begin in the Fall of an ODD numbered year

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# COMMUNICATION ARTS
## THEATRE EMPHASIS (Code 185)

### Suggested Course Sequence

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## COMMUNICATION ARTS
### MASS COMMUNICATION EMPHASIS (Code 185)
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<td>2123 Interpersonal Comm (3)</td>
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<td>2113 Writing for Mass Media (3)</td>
<td>2213 News Gathering &amp; Reporting (3)</td>
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<td>Minor courses (6)</td>
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<tr>
<td></td>
<td><strong>Total (15)</strong></td>
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<tr>
<td><strong>FOURTH YEAR</strong></td>
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<tr>
<td></td>
<td>4243 Media Production (3)</td>
<td>4293 Media, Law &amp; Ethics (3)</td>
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<td></td>
<td>Comm Arts Electives (3)</td>
<td>General Electives (9)</td>
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<td></td>
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<td>Minor course (3)</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td><strong>Total (15)</strong></td>
<td><strong>Total (15)</strong></td>
</tr>
</tbody>
</table>

* First time entering Freshmen need to take 1001 Freshman Orientation.
DEPARTMENT OF BIOLOGICAL SCIENCES
COLLEGE OF ARTS AND SCIENCES

FACULTY

Zach Jones, Chair
Science Building, Room 214
Phone: (580) 774-3230
E-mail: zach.jones@swosu.edu
http://www.swosu.edu/biology/

Jimena Aracena.................................................SCI 110 E            jimena.aracena@swosu.edu ..................................(580) 774-3099
Sue Ball ..........................................................SCI 110 B        sue.ball@swosu.edu ........................................(580) 774-3085
Lisa Boggs .......................................................SCI 307 A        lisa.boggs@swosu.edu ....................................(580) 774-3090
Lisa Castle ......................................................SCI 110 C         lisa.castle@swosu.edu ...................................(580) 774-3097
Rickey Cothran ................................................SCI 307 B        rickey.cothran@swosu.edu ....................................(580) 774-3096
Christopher Horton .........................................SCI 110 F        christopher.horton@swosu.edu ................................(580) 774-3134
Regina McGrane ...............................................SCI 110 G        regina.mcgrane@swosu.edu ....................................(580) 774-3046
Steven O’Neal ..................................................SCI 110 D        steven.oneal@swosu.edu .....................................(580) 774-3091
Eric Paul .........................................................SCI 325          eric.paul@swosu.edu ........................................(580) 774-3228
Muatasem Ubeidat ............................................SCI 213 A        muatasem.ubeidat@swosu.edu ..................................(580) 774-3298

DEPARTMENTAL MISSION AND GOALS

The mission of the Department of Biological Sciences is to provide educational opportunities in biological science that meet the needs of students and citizens of Oklahoma and surrounding states; to support faculty and student research in the biological sciences; and to contribute to the educational, economic, and cultural environment of the university, the community, and the region.

The Department of Biological Sciences accomplishes its mission and that of the university through the following:

- Ensuring quality education by recruiting the most qualified faculty without regard to national origin, race, gender, disability, age, or religion, who are committed to undergraduate teaching, involving undergraduates in research, and providing service to the university and the region.
- Providing courses of study that establish a foundation for life-long learning in biological science and that prepare graduates to successfully pursue professional and graduate education, to become effective teachers, and to begin fulfilling careers in biology and related fields.
- Establishing an environment of academic freedom, intellectual inquiry, and governance that encourages collaborative interactions among faculty and students and that values analytical and critical thinking, diversity of ideas, effective communication, innovation, and intellectual honesty.
- Extending learning opportunities outside of the classroom through field experiences, student research, regional and national professional meeting attendance and participation, service-learning experiences, and seminar series featuring local and invited speakers.
- Supporting faculty and student research with internal and extramural funding, dedicated space, equipment, and time and recognizing the scholarly achievements of faculty and students.
- Maintaining a curriculum that meets the constantly changing needs of modern biology through ongoing assessment by faculty, students, alumni, and external review.

PROGRAMS OF STUDY

Majors: B.S. Biological Sciences
- Biomedical Sciences Option
- Environmental & Organismal Science Option
B.S. Microbiology
- Medical Laboratory Science Option (3+1)
- B.S. Medical Lab. Science Option (Dual Degree)
B.S.Ed. Natural Science Education (Biology) (Listed in Dept. of Education)

Minor: Biological Sciences

Pre-Professional:* Communication Sciences & Disorders
- Dentistry and Dental Hygiene
- Medical Imaging & Radiation Sciences
- Medicine/Osteopathic Medicine
- Nutritional Sciences/Clinical Dietetics
- Optometry
- Physical and Occupational Therapy
- Physician Associate/Assistant
- Veterinary Medicine

Master: M.Ed. Natural Sciences
M.Ed. Biomedical Sciences and Microbiology
(See Graduate Catalog for more information.)

* Students pursuing professional degrees should schedule an appointment with a pre-professional advisor during their first semester on campus to identify requirements specific to their particular program.

GENERAL INFORMATION

The course offerings in the Department of Biological Sciences span the sub-disciplines within the life sciences. Students may choose to pursue a generalized degree in biological sciences, focus their program in one of three program options, pursue professional programs in medical laboratory sciences and education, or pursue a course of study that prepares students for admission to professional programs in health and medical sciences. This diversity prepares students for professional schools as well as a variety of options for graduate study and careers in professional biology.
SPECIAL OPPORTUNITIES

SWOSU is an affiliate member of the Gulf Coast Research Laboratory, a Mississippi State Institute of Higher Learning. Coursework in marine biology completed at this facility may be applied toward degree requirements in the biological sciences major. Classes are offered during two six-week summer sessions at the marine laboratory at Ocean Springs, Mississippi. Students may also enroll in courses at other field stations and request that credit earned apply to their degree programs.

Students are encouraged to pursue opportunities for research by contacting individual faculty members or applying for numerous off-campus summer research experiences and internships. Students may receive independent study course credit for participation in approved research projects. Paid positions as research and teaching assistants and departmental tutors are available for qualified students. Speak to your advisor or one of your instructors about opportunities for research in Biological Sciences.

STUDENT ORGANIZATIONS

Membership in the Biology Club can further enhance the training received by biology majors. This student organization, established in 1930 and open to all students, assists the department in such areas as display preparation, arrangement for seminar speakers and scheduling of tours of research laboratories and wildlife refuges. Multi-disciplinary organizations such as the Medical Professions Club and the Research Excellence Club provide additional opportunities to serve and experience the opportunities a Biological Sciences degree can provide.

Beta Beta Beta, a national biological science honor fraternity, recognizes the achievements of outstanding biology students. Students have the opportunity to present their research with posters and oral presentations and compete for regional and national recognition for research excellence.

GENERAL INFORMATION

(Programs and Advisors)

New students are assigned to the biological sciences faculty advisor with whom they consulted during initial enrollment. Students should select an advisor from one of the biological sciences degrees and options no later than the last semester of their sophomore year (transfer students entering after their sophomore year should select an advisor before enrolling for their second semester.)

B.S. Biological Sciences
Any biological science faculty member

B.S. Biological Sciences, Biomedical Sciences Option
Ball, Horton, Paul, Ubediat

B.S. Biological Sciences, Environmental and Organismal Biology Option
Aracena, Boggs, Castle, Cothran, Jones, O'Neal

B.S. Microbiology
McGrane, Paul

B.S. Microbiology, Medical Laboratory Sciences Option
Horton

B.S. Ed. Natural Sciences Education
Boggs

Transfer Students
Jones

Professional Programs (Consult advisor in one of the following areas concerning requirements and application information.)

Pre-Medicine, Pre-Osteopathic Medicine
Ball, Horton, Ubediat

Pre-Physical Therapy, Pre-Occupational Therapy
Ball

Pre-Dentistry, Pre-Dental Hygiene
Paul

Pre-Veterinary Medicine
Aracena, Jones

Pre-Optometry
O’Neal

Pre-Physician Associate, Pre-Medical Imaging and Radiation Sciences, Pre-Communication Sciences Disorders, Pre-Nutritional Sciences
Ball

Graduate Programs: Students must apply for graduate programs through the College of Professional and Graduate Studies. Following acceptance into the graduate program, each student will be assigned to an advisor from the Biological Sciences graduate faculty.

Department of Biological Sciences Statement on Evolution

Biology is a natural science that accumulates knowledge through empirical observation and rigorously tested hypotheses. Evolution by natural selection, a foundational principle of modern biology, is supported by overwhelming scientific evidence and is accepted by a vast majority of scientists. Because understanding evolution is fundamental to the understanding and practice of modern biology, Southwestern Oklahoma State University biology faculty teach evolution throughout the biology curriculum. This practice is in accordance with policy statements from the National Academies of Science, the American Association for the Advancement of Science, the American Institute of Biological Sciences, the National Science Teachers Association, the American Biology Teachers Association, the Oklahoma Academy of Sciences, and the Oklahoma Science Teachers Association and is supported by numerous religious denominations and organizations. Because we are a science department, we do not teach philosophically deduced theories or alternative hypotheses that cannot be rigorously tested.

For more information visit our web site at: http://www.swosu.edu/biology/

Medical Laboratory Sciences

Students interested in working in medical laboratories may pursue an Associate degree as a medical laboratory technician (Sayre Campus) or a bachelor’s degree in microbiology-medical laboratory sciences option (Weatherford Campus and clinical study at an accredited affiliated hospital).
Prior to admission to a clinical program, students complete 90 hours of general education and pre-medical laboratory sciences course work. This is the 3+1 program and after completion of the program, the student is awarded a B.S. in Microbiology, Medical Laboratory Sciences Option. Students may opt to complete an undergraduate degree before applying for one of the clinical programs. This is the dual degree program and students complete an undergraduate degree in Biology before applying to the clinical program. Upon completion of the clinical program, students receive a B.S. in Biological Sciences and a B.S. in Microbiology, Medical Laboratory Sciences Option. Students do not have to be admitted to a Pre-Medical Laboratory Science program but should regularly seek advisement from the advisor of Medical Laboratory Sciences in the Department of Biological Sciences in the College of Arts and Sciences.

The clinical training portion of the Medical Laboratory Science option, which involves 30 credit hours, can only be achieved at an accredited hospital in affiliation with Southwestern Oklahoma State University.

Acceptance into the hospital-based clinical training program is the option of the hospital program. Student applications are required and must follow specified guidelines. Minimum requirements for application require an overall grade point average (OGPA) of 2.5. The students must have a personal interview with hospital program officials. After all applications and interviews have been completed, the students will be “matched” to a training hospital for their professional clinical training.

The Professional Medical Training program at the hospital is 12 months. The students will enroll in clinical courses each semester of the year – 12 hours in the fall and spring semesters and six hours for the summer semester. Final letter grades for all 30 hours will not be posted until the total clinical program has been completed.

For additional information contact:

Dr. Zach Jones
Department of Biological Sciences
SCI 214
(580) 774-3230
zach.jones@swosu.edu

Natural Sciences Education

Students interested in teaching middle school or high school biological sciences and other science disciplines should refer to the secondary education programs offered by the Department of Education within the School of Behavioral Sciences and Education in the College of Professional and Graduate Studies. For further information contact:

Dr. Lisa L. Boggs
Department of Biological Sciences
SCI 307A
(580) 774-3090
lisa.boggs@swosu.edu
BACHELOR OF SCIENCE
BIOLOGICAL SCIENCES (Code No. 103)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ......................................................... 31-35

Written Communication ............................................................................. 6

<table>
<thead>
<tr>
<th>ENGL</th>
<th>1113</th>
<th>English Composition I</th>
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<tr>
<td>ENGL</td>
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<td>English Composition II</td>
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Mathematics .................................................................................. 3

<table>
<thead>
<tr>
<th>MATH</th>
<th>1513</th>
<th>College Algebra</th>
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<tbody>
<tr>
<td>or a higher numbered math course</td>
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U. S. History .................................................................................. 3

Select one course.

<table>
<thead>
<tr>
<th>HIST</th>
<th>1043</th>
<th>U. S. History to 1877</th>
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<tbody>
<tr>
<td>HIST</td>
<td>1053</td>
<td>U. S. History since 1877</td>
</tr>
</tbody>
</table>

American Government .................................................................... 3

| POLS | 1103 | American Government & Politics |

Science .......................................................................................... 9

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .................................................................................. 4

| BIOL | 1054 | Principles of Biology I w/Lab |

Physical Science ........................................................................... 5

<table>
<thead>
<tr>
<th>CHEM</th>
<th>1203</th>
<th>General Chemistry I (Lecture) and</th>
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<tr>
<td>CHEM</td>
<td>1252</td>
<td>General Chemistry I (Lab)</td>
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Humanities ..................................................................................... 6

<table>
<thead>
<tr>
<th>HUM</th>
<th>1103</th>
<th>Introduction to Humanities</th>
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<tbody>
<tr>
<td>OR</td>
<td>HIST</td>
<td>World History</td>
</tr>
<tr>
<td>AND</td>
<td>one of the following:</td>
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<table>
<thead>
<tr>
<th>ART</th>
<th>1223</th>
<th>Art Survey</th>
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<tbody>
<tr>
<td>COMM</td>
<td>1263</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>LIT</td>
<td>2333</td>
<td>Introduction to Film</td>
</tr>
<tr>
<td>LIT</td>
<td>2413</td>
<td>Introduction to Literature</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1013</td>
<td>Introduction to Music I</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1103</td>
<td>Music and Culture</td>
</tr>
<tr>
<td>PHILO</td>
<td>1453</td>
<td>Introduction to Philosophy</td>
</tr>
</tbody>
</table>

Human, Cultural, & Social Diversity ............................................. 3-4

Select one course.

<table>
<thead>
<tr>
<th>ASL</th>
<th>2163</th>
<th>American Sign Language</th>
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<tbody>
<tr>
<td>CATC</td>
<td>1204</td>
<td>Cheyenne Language I (or higher number)</td>
</tr>
<tr>
<td>CATC</td>
<td>1254</td>
<td>Arapaho Language I (or higher number)</td>
</tr>
<tr>
<td>COMM</td>
<td>1312</td>
<td>Introduction to Public Speaking</td>
</tr>
<tr>
<td>ECON</td>
<td>2263</td>
<td>Intro to Macroeconomics</td>
</tr>
<tr>
<td>ECON</td>
<td>2363</td>
<td>Intro to Microeconomics</td>
</tr>
<tr>
<td>GEOG</td>
<td>1103</td>
<td>World Cultural Geography</td>
</tr>
<tr>
<td>ITAL</td>
<td>1004</td>
<td>Elementary Italian I</td>
</tr>
<tr>
<td>KINES</td>
<td>1133</td>
<td>Wellness Concepts &amp; Exercise Applications</td>
</tr>
<tr>
<td>LATIN</td>
<td>1054</td>
<td>Elementary Latin I (or higher number)</td>
</tr>
<tr>
<td>PSYCH</td>
<td>1003</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOCIO</td>
<td>1003</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SPAN</td>
<td>1054</td>
<td>Elementary Spanish I (or higher number)</td>
</tr>
<tr>
<td>TECH</td>
<td>1223</td>
<td>Technology and Society</td>
</tr>
</tbody>
</table>

Computer Proficiency .................................................................... 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ........... to total 40

Biological Sciences Major

Required Courses ..................................................................... 16

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<thead>
<tr>
<th>BIOL</th>
<th>1254</th>
<th>Principles of Biology II</th>
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<tr>
<td>BIOL</td>
<td>3053</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIOL</td>
<td>3152</td>
<td>Genetics and Cell Biology Lab</td>
</tr>
<tr>
<td>BIOL</td>
<td>3253</td>
<td>Genetics</td>
</tr>
<tr>
<td>BIOL</td>
<td>3283</td>
<td>Ecology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4901</td>
<td>Biological Sciences Capstone</td>
</tr>
</tbody>
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Major Electives .......................................................................... 24
(Electives must include one Field Course [F] or a field course with lab from the Gulf Coast Research Lab or other field station or lab and one Plant Course [P]).

<table>
<thead>
<tr>
<th>BIOL</th>
<th>3012</th>
<th>Biological Terminology</th>
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<tbody>
<tr>
<td>BIOL</td>
<td>3304</td>
<td>Aquatic Ecology [F]</td>
</tr>
<tr>
<td>BIOL</td>
<td>3604</td>
<td>Biology of Insects [F]</td>
</tr>
<tr>
<td>BIOL</td>
<td>3704</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>BIOL</td>
<td>3814</td>
<td>Biology of Plants [P]</td>
</tr>
<tr>
<td>BIOL</td>
<td>3904</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4001-4</td>
<td>Independent Studies</td>
</tr>
<tr>
<td>BIOL</td>
<td>4010-4</td>
<td>Seminar in Biology</td>
</tr>
</tbody>
</table>

(A maximum of 4 hours total of Independent Studies and Seminar may be counted toward the major.)

<table>
<thead>
<tr>
<th>BIOL</th>
<th>4021-4</th>
<th>Special Topics in Biomedical Sciences</th>
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</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>4031-4</td>
<td>Special Topics in Microbiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4041-4</td>
<td>Special Topics in Environ &amp; Organismal Biology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4154</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4204</td>
<td>Vertebrate Biology [F]</td>
</tr>
<tr>
<td>BIOL</td>
<td>4213</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4254</td>
<td>Invertebrate Biology [F]</td>
</tr>
<tr>
<td>BIOL</td>
<td>4284</td>
<td>Parasitology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4314</td>
<td>Environmental Biology</td>
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<tr>
<td>BIOL</td>
<td>4343</td>
<td>Applied Microbiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4355</td>
<td>Microbiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4404</td>
<td>Pathogenic Microbiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4454</td>
<td>Plant Taxonomy [P]</td>
</tr>
<tr>
<td>BIOL</td>
<td>4463</td>
<td>Virology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4503</td>
<td>Microbial Physiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4523</td>
<td>Environmental Microbiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4604</td>
<td>Terrestrial Ecology [P]</td>
</tr>
<tr>
<td>BIOL</td>
<td>4622</td>
<td>Economically Important Plants [P]</td>
</tr>
<tr>
<td>BIOL</td>
<td>4853</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL</td>
<td>4864</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>BIOL</td>
<td>4914</td>
<td>General and Comparative Physiology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4935</td>
<td>Cell and Molecular Biology</td>
</tr>
<tr>
<td>BIOL</td>
<td>4944</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>BIOL</td>
<td>4974</td>
<td>Histology</td>
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Other Requirements .................................................................... 18-20

<table>
<thead>
<tr>
<th>MATH</th>
<th>1613</th>
<th>College Trigonometry (or 1834 Calculus I)</th>
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<tbody>
<tr>
<td>MATH</td>
<td>3413</td>
<td>Statistical Methods I OR 3433 Statistics I</td>
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<tr>
<td>OR PSYCH 2433</td>
<td>Psychological Statistics</td>
<td></td>
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<tr>
<td>CHEM</td>
<td>1303 &amp; 1352</td>
<td>General Chemistry II (Lecture and Lab)</td>
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<tr>
<td>CHEM</td>
<td>2114</td>
<td>Organic/Biochemistry OR one higher numbered chemistry course with lab</td>
</tr>
<tr>
<td>PHY 1063</td>
<td>General Physics OR one higher numbered Physics course with lab</td>
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</tbody>
</table>

Minor Requirements (see Minor Programs of Study) ................. 18-22

Free Electives to total 120 hours .............................................. 0-4

TOTAL HOURS ............................................................................. 120

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ............................................. 120
Minimum credit hours in the liberal arts & sciences .................. 55
Minimum credit hours in upper-division (3000/4000 courses) ... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ............... 30
Minimum Grade Point Average in all coursework ................. 2.00
Minimum Grade Point Average in major ...................... 2.00
**BIOLOGICAL SCIENCES (Code 103)**  
Suggested Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshmen Orientation* (1)</td>
<td>1254 Principles of Biology II (4)</td>
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<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1213 English Composition II (3)</td>
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<td>1113 English Composition I (3)</td>
<td>1613 College Trigonometry (3)</td>
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<tr>
<td>1513 College Algebra (3)</td>
<td>General Education (2-5)</td>
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<tr>
<td>General Education (1-4)</td>
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<tr>
<td><strong>Total (12-15)</strong></td>
<td><strong>Total (12-15)</strong></td>
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</table>

### SECOND YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>3253 Genetics (3)</td>
<td>3053 Cell Biology (3)</td>
</tr>
<tr>
<td>3152 Genetics and Cell Biology Lab (2)</td>
<td>3283 Ecology (3)</td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1303 General Chemistry II (3)</td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1352 General Chemistry II Lab (2)</td>
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<tr>
<td>Major electives, Minor courses, or General Education (3-7)</td>
<td>General Education (1-3)</td>
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<tr>
<td></td>
<td>Statistics course (3)</td>
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<tr>
<td><strong>Total (13-17)</strong></td>
<td><strong>Total (15-17)</strong></td>
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### THIRD YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>Field/Plant course elective (4)</td>
<td>Chemistry requirements (4)*</td>
</tr>
<tr>
<td>Chemistry requirements (4)*</td>
<td>Field/Plant course elective (4)</td>
</tr>
<tr>
<td>Major electives, Minor courses, or General Education (3-7)</td>
<td>Major electives, Minor courses, or General Education (3-7)</td>
</tr>
<tr>
<td>Physics requirements (3-4)*</td>
<td>Physics requirements (4)*</td>
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<tr>
<td><strong>Total (14-19)</strong></td>
<td><strong>Total (15-19)</strong></td>
</tr>
</tbody>
</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>Major electives, Minor courses, General Education or Free electives (15)</td>
<td>4901 Biological Sciences Capstone (1)</td>
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<tr>
<td></td>
<td>Major electives, Minor courses General Education or Free electives (14)</td>
</tr>
<tr>
<td><strong>Total (15)</strong></td>
<td><strong>Total (15)</strong></td>
</tr>
</tbody>
</table>

*First time entering Freshmen need to take 1001 Freshman Orientation*

*Chemistry requirement may be fulfilled by 2144 Organic/Biochemistry or Organic Chemistry I and Organic Chemistry II (with lab). Physics requirement may be fulfilled by 1063 General Physics or Basic Physics I and Basic Physics II. Students planning to apply to graduate or professional schools should take Organic Chemistry I and II and Basic Physics I and II.*

*Students pursuing Biological Sciences Degree Options should enroll in specified electives during the third and fourth years.*

---

Students applying to professional schools should regularly consult with a pre-professional advisor and the pre-medical committee to be aware of changes in admissions policies and deadlines.

**NOTE:** Students entering SWOSU with concurrent credits, Advanced Placement or CLEP credits may need to adjust the course sequences accordingly. Likewise, students entering with deficiencies may not be able to complete a degree in four years or may have to attend summer school.
BACHELOR OF SCIENCE-BIOLOGICAL SCIENCES
BIOMEDICAL SCIENCES OPTION (Code No. 115)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.
**TOTAL GENERAL EDUCATION HOURS** ........................................... **Min. 40**
**REQUIRED CORE COURSES** ....................................................................... **31-35**

**Written Communication** ........................................................................... **6**
ENGL 1113 English Composition I  
ENGL 1213 English Composition II

**Mathematics** ............................................................................................ **3**
MATH 1513 College Algebra

**U. S. History** ................................................................................................ **3**
Select one course.
HIST 1043 U. S. History to 1877  
HIST 1053 U. S. History since 1877

**American Government** .............................................................................. **3**
POLSC 1103 American Government & Politics

**Science** ........................................................................................................ **9**
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
Life Science .................................................................................................. **4**
BIOL 1054 Principles of Biology I w/Lab

Physical Science .......................................................................................... **5**
CHEM 1203 General Chemistry I (Lecture) and CHEM 1252 General Chemistry I (Lab)

**Humanities** .................................................................................................. **6**
HUM 1103 Introduction to Humanities  
OR  
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey  
COMM 1263 Introduction to Theatre  
LIT 2333 Introduction to Film  
LIT 2413 Introduction to Literature  
MUSIC 1013 Introduction to Music I  
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

**Human, Cultural, & Social Diversity** .......................................................... **3-4**
Select one course. Psychology and Sociology are recommended for students who will be taking the MCAT.
ASL 2163 American Sign Language  
CATC 1204 Cheyenne Language I (or higher number)  
CATC 1234 Arapaho Language I (or higher number)  
COMM 1313 Introduction to Public Speaking  
ECON 2263 Intro to Macroeconomics  
ECON 2363 Intro to Microeconomics  
GEOG 1103 World Cultural Geography  
ITAL 1004 Elementary Italian I  
KINES 1133 Wellness Concepts & Exercise Applications  
LATIN 1054 Elementary Latin I (or higher number)  
PSYCH 1003 General Psychology  
SOCIO 1003 Introduction to Sociology  
SPAN 1054 Elementary Spanish I (or higher number)  
TECH 1223 Technology and Society

**Computer Proficiency** ............................................................................... **0-3**
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)** ................................. **to total 40**

**Biomedical Sciences Option**

**Biological Sciences Core Courses (Required)** ........................................... **16**
BIOL 1254 Principles of Biology II  
BIOL 3053 Cell Biology  
BIOL 3152 Genetics and Cell Biology Lab  
BIOL 3253 Genetics  
BIOL 3283 Ecology  
BIOL 4901 Biological Sciences Capstone

**Major Electives** (include one Field Course [F] and one Plant Course [P]) .... **24**
BIOL 3304 Aquatic Ecology [F]  
BIOL 3604 Biology of Insects [F]  
BIOL 3704 Human Anatomy  
BIOL 3814 Biology of Plants [P]  
BIOL 4001-4 Independent Studies in Biological Sciences  
(A maximum of 4 hours total of Independent Studies may be counted toward the major.)  
BIOL 4021-4 Special Topics in Biomedical Sciences  
BIOL 4154 Developmental Biology  
BIOL 4204 Vertebrate Biology [F]  
BIOL 4213 Immunology  
BIOL 4254 Invertebrate Biology [F]  
BIOL 4284 Parasitology  
BIOL 4314 Environmental Biology  
BIOL 4355 Microbiology  
BIOL 4404 Pathogenic Microbiology  
BIOL 4454 Plant Taxonomy [P]  
BIOL 4463 Virology  
BIOL 4604 Terrestrial Ecology [P]  
BIOL 4622 Economically Important Plants [P]  
BIOL 4703 Infectious Disease Epidemiology  
BIOL 4853 Evolution  
BIOL 4864 Human Genetics  
BIOL 4914 General and Comparative Physiology  
BIOL 4935 Cell and Molecular Biology  
BIOL 4944 Neuroscience  
BIOL 4974 Histology

**Other Requirements** .................................................................................. **18-20**
MATH 1613 College Trigonometry (or 1834 Calculus I)  
MATH 3433 Statistical Methods I OR 3433 Statistics I  
OR PSYCH 2433 Psychological Statistics  
CHEM 1303 & 1352 General Chemistry II and lab  
CHEM 2114 Organic/Biochemistry OR one higher numbered chemistry course with lab  
(Students planning to attend most professional or graduate schools should take CHEM 3013 and 3111 and CHEM 4113 and 4021)
PHY 1063 General Physics OR one higher numbered Physics course with lab  
(Students planning to attend most professional or graduate schools should take PHYS 1044 and 1054)

**Minor Requirements (see Minor Programs of Study)** ................................. **18-22**
(Chemistry Minor is recommended for the Biomedical Sciences option)

**Free Electives to total 120 hours** ............................................................... **0-4**

**TOTAL HOURS** ......................................................................................... **120**

**REGULATIONS PERTAINING TO GRADUATION**
Minimum credit hours for graduation ...................................................... **120**
Minimum credit hours in the liberal arts & sciences ............................... **55**
Minimum credit hours in upper-division (3000/4000 courses) ................. **40**
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ............................................. **8**
Minimum credit hours at SWOSU (15 of the last 30) ............................... **30**
Minimum Grade Point Average in all coursework ................................. **2.00**
Minimum Grade Point Average in major .............................................. **2.00**
**BACHELOR OF SCIENCE - BIOLOGICAL SCIENCES**

**ENVIRONMENTAL AND ORGANISMAL BIOLOGY OPTION (Code No. 117)**

**GENERAL EDUCATION**

Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

<table>
<thead>
<tr>
<th>Total General Education Hours</th>
<th>Min. 40</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Core Courses</strong></td>
<td>31-35</td>
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</table>

**Written Communication** ................. 6

- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**

**Mathematics** ........................................... 3

- **MATH 1513 College Algebra**

**U. S. History** ........................................... 3

- **HIST 1043 U.S. History to 1877**
- **HIST 1053 U.S. History since 1877**

**American Government** ................................. 3

- **POLSC 1103 American Government & Politics**

**Science** ............................................. 9

- **BIOL 1054 Principles of Biology I w/ Lab**

**Physical Science** ..................................... 5

- **CHEM 1203 General Chemistry I (Lecture) and Lab**
- **CHEM 1252 General Chemistry I (Lab)**

**Humanities** ........................................... 6

- **HUM 1103 Introduction to Humanities**
- **OR**
- **HIST 1033 World History**

**AND one of the following:**

- **ART 1223 Art Survey**
- **COMM 1263 Introduction to Theatre**
- **LIT 2333 Introduction to Film**
- **LIT 2413 Introduction to Literature**
- **MUSIC 1013 Introduction to Music I**
- **MUSIC 1103 Music and Culture**
- **PHILO 1453 Introduction to Philosophy**

**Human, Cultural, & Social Diversity** ............... 3-4

Select one course.

- **ASL 2163 American Sign Language**
- **CATC 1204 Cheyenne Language I (or higher number)**
- **CATC 1254 Arapaho Language I (or higher number)**
- **COMM 1313 Introduction to Public Speaking**
- **ECONO 2263 Intro to Macroeconomics**
- **ECONO 2363 Intro to Microeconomics**
- **GEOG 1103 World Cultural Geography**
- **ITAL 1004 Elementary Italian I**
- **KINES 1133 Wellness Concepts & Exercise Applications**
- **LATIN 1054 Elementary Latin I (or higher number)**
- **PSYCH 1003 General Psychology**
- **SOCIO 1003 Introduction to Sociology**
- **SPAN 1054 Elementary Spanish I (or higher number)**
- **TECH 1223 Technology and Society**

**Computer Proficiency** ................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)** ........ to total 40

Environmental and Organismal Biology Option

**Biological Sciences Core Courses (Required)** .............. 16

- **BIOL 1254 Principles of Biology II**
- **BIOL 3053 Cell Biology**
- **BIOL 3152 Genetics and Cell Biology Lab**
- **BIOL 3253 Genetics**
- **BIOL 3283 Ecology**
- **BIOL 4901 Biological Sciences Capstone**

**Major Electives** ........................................ 24

- **BIOL 3304 Aquatic Ecology [F]**
- **BIOL 3604 Biology of Insects [F]**
- **BIOL 3704 Human Anatomy**
- **BIOL 3814 Biology of Plants [P]**
- **BIOL 4001-4 Independent Studies in Biological Sciences**
  *(A maximum of 4 hours total of Independent Studies may be counted toward the major.)*
- **BIOL 4041-4 Special Topics in Environ & Organismal Biology**
- **BIOL 4154 Developmental Biology**
- **BIOL 4204 Vertebrate Biology [F]**
- **BIOL 4254 Invertebrate Biology [F]**
- **BIOL 4284 Parasitology**
- **BIOL 4314 Environmental Biology**
- **BIOL 4343 Applied Microbiology**
- **BIOL 4355 Microbiology**
- **BIOL 4454 Plant Taxonomy [P]**
- **BIOL 4463 Virology**
- **BIOL 4523 Environmental Microbiology**
- **BIOL 4604 Terrestrial Ecology [P]**
- **BIOL 4622 Economically Important Plants [P]**
- **BIOL 4853 Evolution**
- **BIOL 4914 General and Comparative Physiology**

**Other Requirements** ..................................... 18-20

- **MATH 1613 College Trigonometry (or 1834 Calculus I)**
- **MATH 3413 Statistical Methods I OR 3433 Statistics I**
- **OR**
- **PSYCH 2433 Psychological Statistics**
- **CHEM 1303 & 1352 General Chemistry II and lab**
- **CHEM 2114 Organic/Biochemistry OR one higher numbered chemistry course with lab**
- **PHY 1063 Intro to Physics OR one higher numbered Physics course with lab**

**Minor Requirements** (see Minor Programs of Study) ........... 18-22

**Free Electives to total 120 hours** ........................ 0-4

**TOTAL HOURS** .......................................... 120

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation ........................................ 120
Minimum credit hours in the liberal arts & sciences ......................... 55
Minimum credit hours in upper-division (3000/4000 courses) .................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........ 8
Minimum credit hours at SWOSU (15 of the last 30) .......................... 30
Minimum Grade Point Average in all coursework .......................... 2.00
Minimum Grade Point Average in major .................................. 2.00
**PRE-PROFESSIONAL PROGRAMS (Codes 115 & 117)**

**Suggested Course Sequence**

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<thead>
<tr>
<th>FIRST YEAR</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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</tr>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1254 Principles of Biology II (4)</td>
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</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
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<td>1203 General Chemistry I(3)</td>
<td>1303 General Chemistry II (3)</td>
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<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1352 General Chemistry II Lab (2)</td>
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<tr>
<td>1513 College Algebra (3)</td>
<td>1613 College Trigonometry (3)</td>
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<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>3152 Genetics and Cell Biology Lab (2)</td>
<td>3053 Cell Biology (3)</td>
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<tr>
<td>3253 Genetics (3)</td>
<td>3283 Ecology (3)</td>
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<td>Chemistry requirements (4)*</td>
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<tr>
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<tr>
<td>Statistics course (3)</td>
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<td>Total (16-18)</td>
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<td>Option electives, Minor courses, or General Education (7-11)</td>
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<td>Physics requirements (3-4)*</td>
<td>Physics requirements (4)*</td>
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<tr>
<td>MCAT, DAT, or other admissions tests should be taken in the junior year.</td>
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<tr>
<td>Total (14-19)</td>
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<td><strong>SECOND SEMESTER</strong></td>
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<td>Option electives, Minor courses, or General Education (15)</td>
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<tr>
<td>Total (15)</td>
<td>Total (15)</td>
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</tbody>
</table>

* Chemistry requirement may be fulfilled by 2144 Organic/Biochemistry or Organic Chemistry I and Organic Chemistry II (with lab); Physics requirement may be filled by 1063 General Physics or Basic Physics I and Basic Physics II. Students planning to apply to graduate or professional schools should take Organic Chemistry I and II and Basic Physics I and II.
BACHELOR OF SCIENCE - MICROBIOLOGY (Code No. 116)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS .......................................................... Min. 40
REQUIRED CORE COURSES ........................................................................ 31-35
Written Communication .............................................................................. 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics ................................................................................................. 3
  MATH 1513 College Algebra
U. S. History ................................................................................................. 3
Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877
American Government ................................................................................. 3
  POLSC 1103 American Government & Politics
Science ........................................................................................................ 9
  BIOL 1054 Principles of Biology I w/Lab
Physical Science ............................................................................................ 5
  CHEM 1203 General Chemistry I (Lecture) and
  CHEM 1252 General Chemistry I (Lab)
Humanities .................................................................................................. 6
  HUM 1103 Introduction to Humanities
  HIST 1033 World History
AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHILO 1453 Introduction to Philosophy
Human, Cultural, & Social Diversity ........................................................... 3-4
Select one course.
  ASL 2163 American Sign Language
  CATC 1204 Cheyenne Language I (or higher number)
  CATC 1254 Arapaho Language I (or higher number)
  COMM 1313 Introduction to Public Speaking
  ECON 2263 Intro to Macroeconomics
  ECON 2363 Intro to Microeconomics
  GEOG 1103 World Cultural Geography
  ITAL 1004 Elementary Italian I
  KINES 1133 Wellness Concepts & Exercise Applications
  LATIN 1054 Elementary Latin I (or higher number)
  PSYCH 1003 General Psychology
  SOCIO 1003 Introduction to Sociology
  SPAN 1054 Elementary Spanish I (or higher number)
  TECH 1223 Technology and Society
Computer Proficiency .................................................................................. 0-3
Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam,
or COMSC 1023 Computer & Info Access).
GE electives (from at least two different categories) ........ to total 40
Core Courses (Required) ............................................................................. 28
  BIOL 1254 Principles of Biology II
  BIOL 3053 Cell Biology
  BIOL 3152 Genetics and Cell Biology Lab
  BIOL 3253 Genetics
  BIOL 3283 Ecology
  BIOL 3704 Human Anatomy
  BIOL 4213 Immunology
  BIOL 4355 Microbiology
  BIOL 4901 Biological Sciences Capstone
Major Electives ........................................................................................... 21
Choose one of the following courses:
  BIOL 3304 Aquatic Ecology
  BIOL 4604 Terrestrial Ecology
  BIOL 4314 Environmental Biology
Choose the remaining 17 credit hours from the following list:
  BIOL 4001-4 Independent Studies in Biological Sciences
  (A maximum of 4 hours total of Independent Studies may be counted
  toward the major.)
  BIOL 4031-4 Special Topics in Microbiology
  BIOL 4284 Parasitology
  BIOL 4343 Applied Microbiology
  BIOL 4404 Pathogenic Microbiology
  BIOL 4503 Microbial Physiology
  BIOL 4463 Virology
  BIOL 4523 Environmental Microbiology
  BIOL 4703 Infectious Disease Epidemiology
  BIOL 4853 Evolution
  BIOL 4864 Human Genetics
  BIOL 4914 General and Comparative Physiology
  BIOL 4935 Cell and Molecular Biology
  BIOL 4944 Neuroscience
Other Requirements ..................................................................................... 9
  MATH 1613 College Trigonometry (or 1834 Calculus I)
  MATH 3413 Statistical Methods I OR 3433 Statistics I
  OR PSYCH 2433 Psychological Statistics
  PHY 1063 General Physics OR one higher numbered
  Physics course with lab
Chemistry (Minor) ........................................................................................ 22
  CHEM 1203 & 1252 General Chemistry I and lab
  CHEM 1303 & 1352 General Chemistry II and lab
  CHEM 3013 & 3111 Organic Chemistry I and lab
  CHEM 4113 & 4021 Organic Chemistry II and lab
  CHEM 4124 Biochemistry (w/lab)
Free Electives to total 120 hours ................................................................. 0-4
TOTAL HOURS ............................................................................................. 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation......................................................... 120
Minimum credit hours in the liberal arts & sciences..................................... 55
Minimum credit hours in upper-division
  (3000/4000 courses) ................................................................................. 40
Minimum credit hours in major completed at SWOSU ................................ 8
Minimum credit hours at SWOSU (15 of the last 30) ................................... 30
Minimum Grade Point Average in all coursework....................................... 2.00
Minimum Grade Point Average in major................................................... 2.00
## PRE-PROFESSIONAL PROGRAMS (Code 116)

### Suggested Course Sequence

### FIRST YEAR

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<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tr>
<td>1054 Principles of Biology I (4)</td>
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<td>1352 General Chemistry II Lab (2)</td>
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<td>1613 College Trigonometry (3)</td>
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<td>Total (15)</td>
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</table>

### SECOND YEAR

<table>
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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<td>3152 Genetics and Cell Biology Lab (2)</td>
<td>3053 Cell Biology (3)</td>
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<tr>
<td>3253 Genetics (3)</td>
<td>3283 Ecology (3)</td>
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### THIRD YEAR

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<tbody>
<tr>
<td>Human Anatomy (4)</td>
<td>Microbiology (5)</td>
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<td>or General Education (7-11)</td>
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<tr>
<td>Physics requirements (3-4)*</td>
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<td>MCAT, DAT, or other admissions tests should be taken in the junior year.</td>
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<td>Total (14-19)</td>
<td>Total (15-19)</td>
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### FOURTH YEAR

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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>Immunology (3)</td>
<td>4901 Biological Sciences Capstone (1)</td>
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<tr>
<td>Option electives, Minor courses,</td>
<td>Option electives, Minor courses,</td>
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<tr>
<td>or General Education (12)</td>
<td>or General Education (14)</td>
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<tr>
<td>Total (15)</td>
<td>Total (15)</td>
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</table>

* Chemistry requirement may be fulfilled by 2144 Organic/Biochemistry or Organic Chemistry I and Organic Chemistry II (with lab); Physics requirement may be filled by 1063 General Physics or Basic Physics I and Basic Physics II. Students planning to apply to graduate or professional schools should take Organic Chemistry I and II and Basic Physics I and II.
# BACHELOR OF SCIENCE - MICROBIOLOGY

## MEDICAL LABORATORY SCIENCE OPTION (3+1) (Code No. 552)

### MEDICAL LABORATORY SCIENCE OPTION

#### Required Courses

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<th>Course</th>
<th>Credits</th>
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<tbody>
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<td>BIOL 1254</td>
<td>Principles of Biology II</td>
</tr>
<tr>
<td>BIOL 3704</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>BIOL 4213</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIOL 4355</td>
<td>Microbiology</td>
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#### Electives

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 3053</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIOL 3152</td>
<td>Genetics and Cell Biology Lab</td>
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<tr>
<td>BIOL 3253</td>
<td>Genetics</td>
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<tr>
<td>BIOL 3904</td>
<td>Human Physiology</td>
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<tr>
<td>BIOL 4031-4</td>
<td>Special Topics in Microbiology</td>
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<tr>
<td>BIOL 4284</td>
<td>Parasitology</td>
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<tr>
<td>BIOL 4343</td>
<td>Applied Microbiology</td>
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<td>BIOL 4404</td>
<td>Pathogenic Microbiology</td>
</tr>
<tr>
<td>BIOL 4463</td>
<td>Virology</td>
</tr>
<tr>
<td>BIOL 4503</td>
<td>Microbial Physiology</td>
</tr>
<tr>
<td>BIOL 4523</td>
<td>Environmental Microbiology</td>
</tr>
<tr>
<td>BIOL 4703</td>
<td>Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>BIOL 4853</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL 4914</td>
<td>General and Comparative Physiology</td>
</tr>
<tr>
<td>BIOL 4935</td>
<td>Cellular and Molecular Biology</td>
</tr>
<tr>
<td>BIOL 4974</td>
<td>Histology</td>
</tr>
</tbody>
</table>

#### Chemistry Minor (plus Gen Chem I in GE requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1203 &amp; 1252</td>
<td>General Chemistry I and lab</td>
</tr>
<tr>
<td>CHEM 1303 &amp; 1352</td>
<td>General Chemistry II and lab</td>
</tr>
<tr>
<td>CHEM 3013 &amp; 3111</td>
<td>Organic Chemistry I and lab</td>
</tr>
<tr>
<td>CHEM 4113 &amp; 4021</td>
<td>Organic Chemistry II and lab</td>
</tr>
<tr>
<td>CHEM 4124</td>
<td>Biochemistry (w/lab)</td>
</tr>
</tbody>
</table>

#### Clinical (performed at an accredited hospital affiliate)

50 Hours awarded after successful completion of clinical training.

- MLS 4117  Clinical Microbiology
- MLS 4125  Clinical Chemistry I
- MLS 4236  Clinical Hematology
- MLS 4246  Clinical Immunology/Immunohematology
- MLS 4325  Clinical Chemistry II

### TOTAL HOURS

122

### REGULATIONS PERTAINING TO GRADUATION

- Minimum credit hours for graduation: 122
- Minimum credit hours in the liberal arts & sciences: 55
- Minimum credit hours in upper-division (3000/4000 courses): 40
- Minimum credit hours (3000/4000 courses) in major completed at SWOSU: 8
- Minimum credit hours at SWOSU (15 of the last 30): 30
- Minimum Grade Point Average in all coursework: 2.00
- Minimum Grade Point Average in major: 2.00

---

### GENERAL EDUCATION

COURSES THAT ARE **REQUIRED** ARE IN BOLD TYPE.

COURSES THAT ARE **RECOMMENDED** ARE IN ITALICS.

**TOTAL GENERAL EDUCATION HOURS** Min. 40

**REQUIRED CORE COURSES** Min. 31-35

### Written Communication

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>English Composition I</td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>English Composition II</td>
</tr>
</tbody>
</table>

### Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1513</td>
<td>College Algebra</td>
</tr>
<tr>
<td>OR a higher numbered math course</td>
<td></td>
</tr>
</tbody>
</table>

### U. S. History

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1043</td>
<td>U.S. History to 1877</td>
</tr>
<tr>
<td>HIST 1053</td>
<td>U.S. History since 1877</td>
</tr>
</tbody>
</table>

### American Government

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLSC 1103</td>
<td>American Government &amp; Politics</td>
</tr>
</tbody>
</table>

### Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1054</td>
<td>Principles of Biology I w/Lab</td>
</tr>
<tr>
<td>PHYS 3-4</td>
<td>Physical Science</td>
</tr>
<tr>
<td>CHEM 1004</td>
<td>General Chemistry w/Lab</td>
</tr>
<tr>
<td>OR General Chemistry may be satisfied by General Chemistry I (1203 &amp; 1252) and Gen Chemistry II (1303 &amp; 1352) which are requirements for this degree.</td>
<td></td>
</tr>
</tbody>
</table>

### Life Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3</td>
<td>Principles of Biology I w/Lab</td>
</tr>
</tbody>
</table>

### Humanities

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 1103</td>
<td>Introduction to Humanities</td>
</tr>
<tr>
<td>HIST 1033</td>
<td>World History</td>
</tr>
</tbody>
</table>

### AND one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1223</td>
<td>Art Survey</td>
</tr>
<tr>
<td>COMM 1263</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>LIT 2333</td>
<td>Introduction to Film</td>
</tr>
<tr>
<td>LIT 2410</td>
<td>Introduction to Literature</td>
</tr>
<tr>
<td>MUSIC 1013</td>
<td>Introduction to Music I</td>
</tr>
<tr>
<td>MUSIC 1103</td>
<td>Music and Culture</td>
</tr>
<tr>
<td>PHILO 1453</td>
<td>Introduction to Philosophy</td>
</tr>
</tbody>
</table>

### Human, Cultural, & Social Diversity

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 1003</td>
<td>General Psychology</td>
</tr>
</tbody>
</table>

### Computer Proficiency

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 3</td>
<td>Principles of Biology II</td>
</tr>
<tr>
<td>BIOL 3704</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>BIOL 4213</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIOL 4355</td>
<td>Microbiology</td>
</tr>
</tbody>
</table>

### Electives (from at least two different categories)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1313</td>
<td>Intro to Public Speaking</td>
</tr>
</tbody>
</table>

---

**TOTAL HOURS** 122
**B.S. Microbiology - Medical Laboratory Science Option (3+1) Code 552**

*Suggested Course Sequence*

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Freshmen Orientation (1)†</td>
<td>1213 English Composition II (3)</td>
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<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1254 Principles of Biology II (4)</td>
<td></td>
</tr>
<tr>
<td>1113 English Composition I(3)</td>
<td>1303 General Chemistry II (3)</td>
<td></td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1352 General Chemistry II Lab (2)</td>
<td></td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>General Education (3)</td>
<td></td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total (16)</td>
<td>Total (15)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1043 US History to 1877 OR 1053 US History since 1877 (3)</td>
<td>1003 General Psychology (3)</td>
<td></td>
</tr>
<tr>
<td>1313 Intro to Public Speaking (3)</td>
<td>1033 World History (3)</td>
<td></td>
</tr>
<tr>
<td>3013 Organic Chemistry I (3)</td>
<td>4021 Organic Chemistry II Lab (1)</td>
<td></td>
</tr>
<tr>
<td>3111 Organic Chemistry I Lab (1)</td>
<td>4113 Organic Chemistry II (3)</td>
<td></td>
</tr>
<tr>
<td>4355 Microbiology (5)</td>
<td>4213 Immunology (3)</td>
<td></td>
</tr>
<tr>
<td>Total (15)</td>
<td>General Education (3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total (16)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>3704 Human Anatomy (4)</td>
<td>Biology Electives (12)</td>
<td></td>
</tr>
<tr>
<td>4124 Biochemistry (4)</td>
<td>General Education (4)</td>
<td></td>
</tr>
<tr>
<td>Biology Electives (4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total (15)</td>
<td>Total (16)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical course taken at an accredited hospital affiliate (15)</td>
<td>Clinical course taken at an accredited hospital affiliate (15)</td>
<td></td>
</tr>
<tr>
<td>Total (15)</td>
<td>Total (15)</td>
<td></td>
</tr>
</tbody>
</table>

* First time entering Freshmen need to take 1001 Freshman Orientation
# BACHELOR OF SCIENCE - MICROBIOLOGY
## MEDICAL LABORATORY SCIENCE OPTION
### (Dual Degree - Codes 103 & 552)

**General Education**
Courses that are **required** are in bold type. Courses that are **recommended** are in italics.

**Total General Education Hours** ........................................ Min. 40

**Required Core Courses** .................................................. 31-35

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Written Communication</td>
</tr>
<tr>
<td>3</td>
<td>Mathematics</td>
</tr>
<tr>
<td>3</td>
<td>U.S. History</td>
</tr>
<tr>
<td>3</td>
<td>American Government</td>
</tr>
<tr>
<td></td>
<td>POLSC 1103 American Gov't &amp; Politics</td>
</tr>
</tbody>
</table>

**Science** ........................................................................ 7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** .................................................................. 4

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BIOL 1054 Principles of Biology I w/Lab</td>
</tr>
</tbody>
</table>

**Physical Science** ......................................................... 3-4

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CHEM 1004 General Chemistry w/Lab</td>
</tr>
</tbody>
</table>

General Chemistry may be satisfied by General Chemistry I (1203 & 1252) and Gen Chemistry II (1303 & 1352) which are requirements for this degree.

**Humanities** ................................................................... 6

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>HUM 1103 Introduction to Humanities</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HIST 1033 World History</td>
</tr>
</tbody>
</table>

**AND one of the following:**

- **ART** 1223 Art Survey
- **COMM** 1263 Introduction to Theatre
- **LIT** 2333 Introduction to Film
- **LIT** 2413 Introduction to Literature
- **MUSIC** 1013 Introduction to Music I
- **MUSIC** 1103 Music and Culture
- **PHILO** 1453 Introduction to Philosophy

**Human, Cultural, & Social Diversity** ............................. 3

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PSYCH 1003 General Psychology</td>
</tr>
</tbody>
</table>

**Computer Proficiency** .................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives** (from at least two different categories) .......... to total 40

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>COMM 1313 Introduction to Public Speaking</td>
</tr>
</tbody>
</table>

---

**Dual Degree Program**

**B.S. Biological Sciences – Code No. 103**

**B.S. Microbiology, Medical Laboratory Science Option**

**Code No. 552**

**Biological Sciences Core Courses (Required)** .................... 28

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BIOL 1254 Principles of Biology II</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 3053 Cell Biology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 3152 Genetics and Cell Biology Lab</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 3253 Genetics</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 3283 Ecology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 3704 Human Anatomy</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4213 Immunology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4355 Microbiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4901 Biological Sciences Capstone</td>
</tr>
</tbody>
</table>

**Major Electives** .......................................................... 28

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
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<tbody>
<tr>
<td>4</td>
<td>BIOL 3904 Human Physiology</td>
</tr>
<tr>
<td>4</td>
<td>BIOL 4914 Gen &amp; Comp Physiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4031-4 Special Topics in Microbiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4284 Parastology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4343 Applied Microbiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4404 Pathogenic Microbiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4463 Virology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4503 Microbial Physiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4523 Environmental Microbiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4703 Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4853 Evolution</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4914 General and Comparative Physiology</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 4974 Histology</td>
</tr>
</tbody>
</table>

**Recommended the following for Plant/Field Biol Requirement:**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BIOL 4454 Plant Taxonomy</td>
</tr>
<tr>
<td>3</td>
<td>OR BIOL 4604 Terrestrial Ecology</td>
</tr>
</tbody>
</table>

**Other Requirements** .................................................... 9-15

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>MATH 1613 College Trigonometry (or 1834 Calculus I)</td>
</tr>
<tr>
<td>3</td>
<td>MATH 3413 Statistical Methods I OR 3433 Statistics I</td>
</tr>
<tr>
<td>3.5</td>
<td>OR PSYCH 2433 Psychological Statistics</td>
</tr>
</tbody>
</table>

**Chemistry (Minor)** ........................................................ 22

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CHEM 1203 &amp; 1252 General Chemistry I and lab</td>
</tr>
<tr>
<td>3</td>
<td>CHEM 1303 &amp; 1352 General Chemistry II and lab</td>
</tr>
<tr>
<td>3</td>
<td>CHEM 3013 &amp; 3111 Organic Chemistry I and lab</td>
</tr>
<tr>
<td>3</td>
<td>CHEM 4113 &amp; 4021 Organic Chemistry II and lab</td>
</tr>
<tr>
<td>3</td>
<td>CHEM 4124 Biochemistry (w/lab)</td>
</tr>
</tbody>
</table>

**Clinical (performed at an accredited hospital affiliate)** .......... 30

**Hours awarded after successful completion of clinical training.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS</td>
<td>4117 Clinical Microbiology</td>
</tr>
<tr>
<td>MLS</td>
<td>4125 Clinical Chemistry I</td>
</tr>
<tr>
<td>MLS</td>
<td>4236 Clinical Hematology</td>
</tr>
<tr>
<td>MLS</td>
<td>4246 Clinical Immunology/Immunohematology</td>
</tr>
<tr>
<td>MLS</td>
<td>4325 Clinical Chemistry II</td>
</tr>
<tr>
<td>MLS</td>
<td>4351 Topics in Medical Laboratory Science</td>
</tr>
</tbody>
</table>

**Total Hours** .............................................................. 157

---

**Regulations Pertaining to Graduation**

Minimum credit hours for graduation .................................. 157

Minimum credit hours in the liberal arts & sciences ............. 55

Minimum credit hours in upper-division (3000/4000 courses) ... 40

Minimum credit hours (3000/4000 courses) in major completed at SWOSU .................................................. 8

Minimum credit hours at SWOSU (15 of the last 30) ............... 30

Minimum Grade Point Average in all coursework .................. 2.00

Minimum Grade Point Average in major .............................. 2.00

Upon completion of Clinical Program, will earn B.S. Biological Sciences and B.S. Medical Laboratory Sciences
# B.S. Microbiology - Medical Laboratory Science Option (Dual Degree) Codes 103 & 552

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1001 Freshmen Orientation (1)*</td>
<td>1254 Principles of Biology II (4)</td>
</tr>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1613 College Trigonometry (3)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>General Education (5)</td>
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<tr>
<td>General Education (4)</td>
<td>Total (15)</td>
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<tr>
<td><strong>Total (15)</strong></td>
<td><strong>Total (15)</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1303 General Chemistry II (3)</td>
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<td>1252 General Chemistry I Lab (2)</td>
<td>1352 General Chemistry II Lab (2)</td>
</tr>
<tr>
<td>3152 Genetics and Cell Biology Lab (2)</td>
<td>3053 Cell Biology (3)</td>
</tr>
<tr>
<td>3253 Genetics (3)</td>
<td>3283 Ecology (3)</td>
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<tr>
<td>Major electives, Minor courses, or General Education (4-6)</td>
<td>General Education (6)</td>
</tr>
<tr>
<td>Statistics course (3)</td>
<td>Total (17)</td>
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<td><strong>Total (17-19)</strong></td>
<td><strong>Total (17)</strong></td>
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<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>Chemistry requirements (4)*</td>
<td>Chemistry requirements (4)*</td>
</tr>
<tr>
<td>Field/Plant course elective (4)</td>
<td>Field/Plant course elective (4)</td>
</tr>
<tr>
<td>Option electives, Minor courses, or General Education (4-7)</td>
<td>Option electives, Minor courses, or General Education (4-7)</td>
</tr>
<tr>
<td>Physics requirements (3-4)</td>
<td>Physics requirements (3-4)</td>
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<tr>
<td><strong>Total (15-19)</strong></td>
<td><strong>Total (15-19)</strong></td>
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<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
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</table>

* First time entering Freshmen need to take 1001 Freshman Orientation

* Chemistry requirement may be fulfilled by 2144 Organic Biochemistry or Organic Chemistry I and Organic Chemistry II (with labs.) Physics requirement may be filled by 1063 General Physics or Basic Physics I and Basic Physics II. Students planning to apply to graduate or professional schools should take Organic Chemistry I and II and Basic Physics I and II.
DEPARTMENT OF CHEMISTRY AND PHYSICS
COLLEGE OF ARTS AND SCIENCES

FACULTY

JASON JOHNSON, Chair
Chemistry, Pharmacy, Physics Building, Room CPP 202
Phone: (580) 774-3110
Email: jason.johnson@swosu.edu
http://www.swosu.edu/chemphys/

CHEMISTRY

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Tim Hubin ............................................. CPP 201 A ........................................... tim.hubin@swosu.edu ........................................... (580) 774-3026
William Kelly ...................................... CPP 201 E ........................................... william.kelly@swosu.edu ........................................... (580) 774-3202
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Brian Campbell ..................................... CPP 101 D ........................................... brian.campbell@swosu.edu ........................................... (580) 774-3118
Terry Goforth ...................................... CPP 101 C ........................................... terry.goforth@swosu.edu ........................................... (580) 774-3109
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Wayne Trail ........................................ CPP 104 ........................................... wayne.trail@swosu.edu ........................................... (580) 774-3124

CHEMISTRY GOALS AND OBJECTIVES

1. To prepare students for chemistry careers in industry, academics, research, government, non-profit, and entrepreneurship, as well as for post-baccalaureate studies in chemistry through the following objectives as set forth by the American Chemical Society:
   - Delivering a broad-based chemistry education through a layered curriculum consisting of Introductory, Foundational, In-Depth, and Independent Research experiences.
   - Ensuring a rigorous chemistry curriculum that requires students to be actively engaged, responsible for their own learning, and develop progressively the ability to analyze, synthesize, and solve complex problems.
   - In recognition that chemistry is an experimental science, offering at least 400 hours laboratory experience beyond the introductory chemistry laboratory, with emphasis on classic laboratory methodology that builds student competency in the safe and environmentally benign synthesis, measurement, determination, and computational analysis of chemical structure.
   - Integrating hands-on exposure to the operation and theory of modern day instrumentation and its use in solving chemical problems, providing opportunity for students to understand and apply nuclear magnetic resonance spectroscopy, optical molecular spectroscopy, atomic absorption spectroscopy, mass spectrometry, chromatography and separations, and electrochemistry.
   - Providing experiences that go beyond chemistry content knowledge to develop competence in other critical skills necessary for a professional chemist, including analytical reasoning and critical thinking, literature searching and information management, laboratory safety, verbal and written communication, ethical considerations in research, data management, and publication, and serving the larger community as science specialists through service learning opportunities.

2. To provide supportive coursework for students in:
   - Professional studies in Medicine, Dentistry, Veterinary Science, Optometry, Engineering, and Pharmacy;
   - STEM-oriented, baccalaureate programs such as Engineering Physics, Biology, Health Sciences, Nursing, Medical Technology, Industrial Technology, and Engineering Technology;
   - Elementary and Secondary Science Education; and
   - Non-STEM disciplines seeking General Education competency in the physical sciences.

3. To establish an environment in which students are afforded a chemistry faculty continuously stimulated to evaluate their teaching skills, to develop their expertise as chemists, and to be creative members of the ACS faculty and professional community by providing encouragement and support toward the following:
   - Attending professional conferences and workshops;
   - Conducting appropriate research activities that involve undergraduate students as integral components;
   - Exploring pedagogical innovation;
   - Participating in Departmental and University committees, recruiting activities, and advisement of students; and
   - Participating in the greater Weatherford and Southwestern Oklahoma communities as chemistry experts and/or scientifically literate citizens willing to contribute to many diverse activities.
ENGINEERING PHYSICS GOALS AND OBJECTIVES
1. To provide a specialized training in classical and modern physics for students majoring in engineering physics through dedication to the following program objectives set forth by the Accreditation Board for Engineering and Technology.
   - Delivering an integrated curriculum characterized by the following elements:
     o Basic science content that includes an introduction to Physics and laboratory experiences;
     o Mathematical content that includes the application of integral and differential calculus, differential equations, systems of equations using linear algebra, and probability and statistics;
     o Technical core that prepares students for the increasingly complex technical specialties they will experience later in the curriculum;
     o Integration of content in specialty courses that develops student competencies in applying both scientific and mathematical skills in solving problems.
   - Preparing students with the factual knowledge, theoretical insight, and skills necessary to:
     o Construct an appropriate understanding of physical phenomena in an applied and interdisciplinary context;
     o Communicate effectively;
     o Develop as emerging leaders in engineering, physics, academia, medicine, business, and public service;
     o Participate ethically as members of the global society throughout their careers.
2. To prepare scientifically and mathematically competent students to join the engineering staff of industries or of government laboratories.
3. To prepare scientifically and mathematically competent students to pursue graduate education in a broad range of programs including but not limited to physics, engineering, and astrophysics.
4. To provide a broad foundation in the physical sciences for students who wish to pursue careers in physics, engineering, medicine, pharmacy, optometry, or education.
5. To provide general education courses for all students in the College of Arts and Sciences to enrich their educational experience in physical sciences.

CHEMISTRY PROGRAMS OF STUDY

Majors:
- B.S. Chemistry (Professional)
- B.S. Chemistry
- B.A. Chemistry
  - Biochemistry specialization
  - Environmental chemistry specialization
- B.S.Ed. in Natural Science Education
  (Listed in Dept. of Education)

Minor: Chemistry

Pre-Professional:
- Pre-Medicine
- Pre-Optometry
- Pre-Dental
- Pre-Veterinary Medicine
- Pre-Engineering

The Chemistry Program offers two degree plans, the B.A. and the B.S. The latter degree has two options: B.S. and B.S. Professional. The B.S. Professional option is certified by the American Chemical Society and is designed for the chemistry student who intends to pursue an advanced degree or wants a competitive advantage in employment after graduation. ACS-certified degrees are recognized by industry and graduate schools as meeting the standards set forth by the ACS Committee on Professional Training. The B.S. degree is designed for the student who plans to seek employment in a chemistry field upon graduation. The B.A. degree is designed for the student who plans to use a background in chemistry in association with another area of work such as business, journalism, marketing, or law. Many pre-medicine, pre-veterinarian, pre-dental, and pre-optometry students find the BA in Chemistry an excellent major in their pursuit of a professional degree. Graduates with B.A. degrees also obtain jobs in analytical, environmental, and drug testing labs. Students in the B.A. program may choose to specialize in biochemistry or environmental chemistry by selecting the options shown in the program description.
PHYSICS PROGRAMS OF STUDY

Majors:  
- B.S. in Engineering Physics  
- B.S.Ed. in Natural Science Education

Minors:  
- Physics  
- Physical Science

Pre-Professional:  
- Pre-Engineering  
- Pre-Medicine  
- Pre-Optometry

Master:  
- M.Ed. Natural Sciences  
(See Graduate Catalog for more information.)

In addition to the students in the programs above, the Physics faculty advises students whose career choices include meteorology, architecture, electronics and aerospace. The Physics faculty provides service courses for general education, teacher education, pre-pharmacy, pre-physical therapy, and for students who are studying for majors in the biological sciences, chemistry and industrial technology.

CHEMISTRY GENERAL INFORMATION

The diversity in academic backgrounds and experiences of the Chemistry faculty members and their commitment to high-quality education give the Southwestern Oklahoma State University chemistry major a competitive edge for success. Each area of specialization is taught by an instructor with a Ph.D. in that area, such as organic chemistry, analytical chemistry, inorganic chemistry, biochemistry, and physical chemistry. The small class and laboratory sizes allow extensive class discussions and one-on-one interactions with the instructor. Students have ample opportunities to ask their instructor questions.

Laboratory experience is essential for a well-prepared chemist. The Chemistry program at SWOSU emphasizes this side of chemical education through a variety of laboratory classes, each taught by a Ph.D. chemist. Junior and senior students working on either B.S. degree select a research project under the direction of a Chemistry professor. This allows one-on-one instruction on projects of current scientific interest. Students will gain experience not only in traditional chemistry techniques but will also have an opportunity to operate modern scientific instrumentation. Selected laboratory experiments are interfaced directly to computers for convenient real time data collection and analysis.

Graduates of the Chemistry program have held positions at ConocoPhillips, Dow, DuPont, Halliburton, Imaton, Merck, Chevron Phillips, 3M, Oklahoma State Bureau of Investigation (forensics lab), and other companies. Past graduates have taken positions on the faculties of Xavier University, Oregon State University, University of Illinois, Texas A & M, Louisiana State University, and the University of Tulsa. Graduates from the Chemistry program are in demand at graduate schools across the nation where they are offered scholarships that finance their graduate education. Many graduates opt for this advanced degree opportunity. Currently, SWOSU Chemistry graduates are pursuing advanced degrees at Harvard University and Oxford University (UK) as well as other prestigious universities around the country. Chemistry graduates from SWOSU have also had a high acceptance rate at professional (medical, dental, and optometry) schools.

The Donald V. Hertzler Scholarship covering tuition and fees for one year is awarded annually by the department to an outstanding high school student matriculating to SWOSU as a Chemistry major. Information about applying can be obtained from the department chair. A number of other scholarships are available for Chemistry majors. These are described in the introduction to this catalog.

PHYSICS GENERAL INFORMATION

The individual who gets a degree in engineering physics can apply the fundamental knowledge of physical processes (1) to the development of solutions for a variety of practical problems that occur in an industrial setting, (2) to the advancement of the frontiers of knowledge through research, and (3) to transmit to others our understanding of the laws of nature and the ways of investigating them.

The field of physics is the foundation of many sciences and engineering disciplines: For example, the technological developments in the fields of mechanics, thermodynamics, acoustics, optics, electricity, and nuclear physics have resulted in separate disciplines, such as mechanical and aerospace engineering, laser and applied optics, materials science, electrical engineering, and nuclear engineering. As advances open up new fields of study, the boundaries between engineering and physics fields blur, and we see more and more engineers and physicists working side by side on the same problems. Furthermore, Engineering Physics graduates have a solid foundation upon which to build as their interests change or as the job market changes.

Students who choose to major in physics have two options. The most commonly chosen is the B.S. in Engineering Physics. This option combines fundamental physics courses with applied physics courses such as rigid body mechanics, strength of materials, materials science, fluid mechanics, heat transfer, and electronics. The B.S. in Engineering Physics is designed to prepare students for direct entry into the job market as an engineer or for graduate work in physics or engineering. The second option is the B.S.Ed. in Natural Science Education. This program is designed to prepare high school science teachers. It includes a selection of courses in physics, chemistry, biology, earth science and professional education courses.

The success of any academic program is predicated on the quality of the students, the faculty, and the academic programs. We have been fortunate to attract a sufficient number of talented students to maintain a good balance of course offerings for our majors. We have also been successful in recruiting faculty who have received their doctorates from prestigious universities. The expertise of the faculty, coupled with the information we receive from our physics alumni, has allowed us to develop and maintain academic programs in physics that meet the needs of today’s scientific world.

In addition to the general physics laboratory equipment, a variety of technical laboratory facilities are available for students’ use: gamma ray nuclear lab facilities with germanium and sodium-iodide detectors, a helium refrigeration system to do low temperature studies such as superconductivity, an observatory that is equipped with a 14-inch telescope, several smaller telescopes, and various photometric and spectroscopic capabilities, an electronics lab, a high vacuum facility, laser and optics equipment and on-line computers to do automatic measurements and analysis of data. These facilities provide opportunities for the students to conduct undergraduate research under the supervision of faculty members in the department.
Students are encouraged to gain experience through work in the department as laboratory assistants and tutors. Application for such employment can be made in the department office. Career counseling is also available to physics students in the department.

A small number of scholarships are available through endowments in the SWOSU Foundation for students who have significant financial needs and have maintained high grade point averages. Applications for scholarships can be made in the department office.

The Physics faculty sponsors a chapter of the national Society of Physics Students that is affiliated with the American Institute of Physics. The SWOSU chapter has been recognized many times as an outstanding chapter in the nation for its accomplishments and level of activity. This organization has also received many grants for research projects and for the promotion of physics. Students in the Engineering Physics program should become involved in these activities as early as possible in order to develop professionally and socially. The local student organization is the Physics and Engineering Club. Both local and national memberships are strongly encouraged.

Students receive many benefits from their involvement in physics activities. Our students have been quite successful after graduation. Many have attended graduate school in physics or engineering programs at prestigious universities across the nation. Others have taken employment with national laboratories, defense industries, and many major corporations. Still others have become high school teachers, physicians, optometrists, and military officers.

For more information, visit our web site at:
http://www.swosu.edu/chemistry/
http://www.swosu.edu/physics/
http://www.swosu.edu/scienceed/
GENERAL EDUCATION
Courses that are required are in bold type.
TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ..................................................... 31-35
Written Communication ......................................................... 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics ............................................................................. 3
  MATH 1513 College Algebra
  or a higher numbered math course
U. S. History ............................................................................ 3
Select one course.
  HIST 1043 U. S. History to 1877
  HIST 1053 U. S. History since 1877
American Government ................................................................ 3
  POLSC 1103 American Government & Politics
Science ......................................................................................... 7-8
Select one course from Life Science and one course from Physical
Science. One Science course must be a lab science.
Life Science .................................................................................. 3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology
Physical Science ........................................................................... 4
  CHEM 1004 General Chemistry w/Lab
  or a higher numbered chemistry or physics course
Humanities .................................................................................... 6
  HIST 1033 World History
  AND one of the following:
    ART 1223 Art Survey
    COMM 1263 Introduction to Theatre
    LIT 2333 Introduction to Film
    LIT 2413 Introduction to Literature
    MUSIC 1013 Introduction to Music I
    MUSIC 1103 Music and Culture
    PHILO 1453 Introduction to Philosophy
Human, Cultural, & Social Diversity ............................................. 3
  PSYCH 1003 General Psychology
Computer Proficiency ................................................................... 0-3
  Students must demonstrate computer proficiency (high school
  Computer Science course, SWOSU computer proficiency exam,
  or COMSC 1023 Computer & Info Access).
GE electives (from at least two different categories) ............. to total 40
  COMM 1313 Introduction to Public Speaking

Chemistry Major (B.A.)
Required Core Curriculum for all emphases ......................... 26-28
  CHEM 4900 Seminar Attendance (enroll each semester)
  CHEM 1203 General Chemistry I
  CHEM 1252 General Chemistry I Lab
  CHEM 1303 General Chemistry II
  CHEM 1352 General Chemistry II Lab
  CHEM 2612 Principles of Laboratory Safety
  CHEM 3124 Quantitative Analysis
  CHEM 3013 Organic Chemistry I AND
  CHEM 3111 Organic Chemistry I Lab
  OR
  CHEM 3015 Organic Chemistry I
  CHEM 4113 Organic Chemistry II AND
  CHEM 4021 Organic Chemistry II Lab
  OR
  CHEM 4115 Organic Chemistry II
  CHEM 3901 Seminar in Chemistry I
  CHEM 4901 Seminar in Chemistry II
Choose a degree option below ................................................ 12-14
Secondary Requirements for all emphases .......................... 17-18
  MATH Higher numbered math course beyond
  MATH 1513 (MATH 3433 Statistics I is required for
  students choosing the Environmental Chemistry
  Emphasis.)
Life Sciences (7 hours beyond GE requirement)
  PHY 1044 Basic Physics I w/Lab OR
  PHY 1063 General Physics
  AND
  PHY 1054 Basic Physics II
Minor ......................................................................................... 18-22
Recommended Minors:  Art, Biology, Computer Science,
Electronics, Management, Marketing, Mathematics, Physics, or
Political Science
Free electives to bring total to ............................................ 120

General Option
Electives and Advanced Chemistry ...................................... 12-14
Choose courses from the following list to give a total of at least 37 hours
of chemistry courses including Core Curriculum:
  CHEM 2112 Structure and Bonding
  CHEM 3233 Inorganic Chemistry
  CHEM 3211 Inorganic Chemistry Lab
  CHEM 3244 Environmental Chemistry
  CHEM 3343 Physical Chemistry I
  CHEM 4001 4 Chemistry Research
  CHEM 4011 Seminar in Chem Spec Topics
  CHEM 4124 Biochemistry
  CHEM 4234 Instrumental Analysis
  CHEM 4254 Industrial Chem. and Environ Regs
  CHEM 4313 Advanced Organic Synthesis
  CHEM 4353 Materials Chemistry
  CHEM 4554 Advanced Organic Spectroscopy
  CHEM 4673 Advanced Metabolism

Continued on next page
Biochemistry Option

Required ................................................................................................................ 7
CHEM 4124 Biochemistry
CHEM 4673 Advanced Metabolism

Electives ................................................................................................................... 5-7
Choose courses from the following list to give a total of at least 37 hours of chemistry courses including Core Curriculum and required courses):
CHEM 2112 Structure and Bonding
CHEM 3233 Inorganic Chemistry
CHEM 3211 Inorganic Chemistry Lab
CHEM 3244 Environmental Chemistry
CHEM 3343 Physical Chemistry I
CHEM 4001-4 Ind Research in Biochem or related area
CHEM 4011-4 Seminar in Chem Spec Topics
CHEM 4213 Advanced Organic Synthesis
CHEM 4234 Instrumental Analysis
CHEM 4343 Materials Chemistry
CHEM 4554 Advanced Organic Spectroscopy
BIOL 3253 Genetics
BIOL 3152 Genetics / Cell Biology Lab
BIOL 4935 Cell and Molecular Biology
BIOL 4964 Molecular Biology
BIOL 4213 Immunology
BIOL 4355 Microbiology

Environmental Chemistry Option

Required .................................................................................................................. 8
CHEM 3244 Environmental Chemistry
CHEM 4254 Industrial Chem and Environ Regs

Electives (chosen from this list) ................................................................. 4-6
Choose courses from the following list to give a total of at least 37 hours of chemistry courses including Core Curriculum and required courses):
GEOG 4083 Environmental Studies
MNGMT 3623 Risk Management
CHEM 2112 Structure and Bonding
CHEM 3233 Inorganic Chemistry
CHEM 3211 Inorganic Chemistry Lab
CHEM 3343 Physical Chemistry I
CHEM 4001-4 Chemistry Research
CHEM 4011-4 Seminar in Chem Spec Topics
CHEM 4124 Biochemistry
CHEM 4213 Advanced Organic Synthesis
CHEM 4234 Instrumental Analysis
CHEM 4343 Materials Chemistry
CHEM 4554 Advanced Organic Spectroscopy
CHEM 4673 Advanced Metabolism

TOTAL HOURS .................................................................................................. 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ................................................. 120
Minimum credit hours in the liberal arts & sciences .................. 80
Minimum credit hours in upper-division
(3000/4000 courses) ................................................................. 40
Minimum credit hours [3000/4000 courses]
in major completed at SWOSU .................................................. 8
Minimum credit hours at SWOSU (including last 8) .......... 30
Minimum Grade Point Average in all coursework .................. 2.00
Minimum Grade Point Average in major ................................. 2.00
Minimum Grade Point Average in minor ................................. 2.00
# CHEMISTRY (B.A.) (Code 104)

## Suggested Course Sequence

### FIRST YEAR

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<tr>
<th>FIRST SEMESTER</th>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1303 General Chem II (3)</td>
</tr>
<tr>
<td>1113 English Comp I (3)</td>
<td>1352 General Chem II Lab (2)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>2612 Principles of Laboratory Safety (2)</td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>4900 Seminar Attendance (0)</td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>General Ed Course (3)</td>
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<td>4900 Seminar Attendance (0)</td>
<td>Math Elective (3-4)</td>
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### SECOND YEAR

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<tbody>
<tr>
<td>1044 Basic Physics I (4)</td>
<td>1054 Basic Physics II (4)</td>
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<tr>
<td>1054 Principles of Biology I (4)</td>
<td>4015 Organic Chemistry II (5)</td>
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<td>3015 Organic Chemistry I (5)</td>
<td>4900 Seminar Attendance (0)</td>
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<tr>
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<td>General Ed Courses (6)</td>
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<td>General Ed Course (3)</td>
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### THIRD YEAR

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<tr>
<td>3124 Quantitative Analysis (4)</td>
<td>4900 Seminar Attendance (0)</td>
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<tr>
<td>4900 Seminar Attendance (0)</td>
<td>Chemistry Elective (4)</td>
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<tr>
<td>General Ed Course (3)</td>
<td>General Ed Course (3)</td>
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<tr>
<td>Life Science Elective (4)</td>
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### FOURTH YEAR

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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>3901 Seminar in Chemistry I (1)</td>
<td>4900 Seminar Attendance (0)</td>
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<tr>
<td>4900 Seminar Attendance (0)</td>
<td>4901 Seminar in Chemistry II (1)</td>
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<tr>
<td>Chemistry Elective (3-4)</td>
<td>Chemistry Electives (3-4)</td>
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<tr>
<td>General Ed Courses (6)</td>
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<td>Minor Electives (8)</td>
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*First time entering Freshmen need to take 1001 Freshman Orientation
# CHEMISTRY (B.A.) (Code 104)
## Biochemistry Emphasis
### Suggested Course Sequence

<table>
<thead>
<tr>
<th>Category</th>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1213 English Comp II (3)</td>
<td></td>
</tr>
<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1303 General Chem II (3)</td>
<td></td>
</tr>
<tr>
<td>1113 English Comp I (3)</td>
<td>1352 General Chem II Lab (2)</td>
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</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>2612 Principles of Laboratory Safety (2)</td>
<td></td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>General Ed Course (3)</td>
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</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>4900 Seminar Attendance (0)</td>
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<tr>
<td>4900 Seminar Attendance (0)</td>
<td>Math Elective (3-4)</td>
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</tr>
<tr>
<td>Total (15)</td>
<td>Total (16-17)</td>
<td></td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
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</tr>
<tr>
<td>1044 Basic Physics I (4)</td>
<td>1054 Basic Physics II (4)</td>
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<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1254 Principles of Biology II (4)</td>
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<tr>
<td>3015 Organic Chemistry I (5)</td>
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<td>4900 Seminar Attendance (0)</td>
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<td>General Ed Course (3)</td>
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<td>Total (16)</td>
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<tr>
<td><strong>THIRD YEAR</strong></td>
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<tr>
<td>3124 Quantitative Analysis (4)</td>
<td>4673 Advanced Metabolism</td>
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<tr>
<td>4124 Biochemistry (4)</td>
<td>OR Biochemistry Elective (3-4)</td>
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*First time entering Freshmen need to take 1001 Freshman Orientation*
## CHEMISTRY (B.A.) (Code 104)
### Environmental Chemistry Emphasis
#### Suggested Course Sequence

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*First time entering Freshmen need to take 1001 Freshman Orientation
## BACHELOR OF SCIENCE

### CHEMISTRY (Code No. 105)

### General Education

Courses that are **required** are in bold type.

**TOTAL GENERAL EDUCATION HOURS** .................................................. **Min. 40**

**REQUIRED CORE COURSES** .................................................................. **31-35**

**Written Communication** ........................................................................ **6**

- **ENGL 1113** English Composition I
- **ENGL 1213** English Composition II

**Mathematics** ......................................................................................... **3**

- **MATH 1513** College Algebra
  or a higher numbered math course

**U. S. History** .......................................................................................... **3**
Select one course.

- **HIST 1043** U.S. History to 1877
- **HIST 1053** U.S. History since 1877

**American Government** ........................................................................... **3**

- **POLSC 1103** American Government & Politics

**Science** .................................................................................................. **7-8**
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** .......................................................................................... **3-4**

- **BIOL 1004** Biological Concepts w/Lab
- **BIOL 1054** Principles of Biology I w/Lab
- **BIOL 1013** Current Issues in Biology

**Physical Science** .................................................................................... **4**

- **CHEM 1004** General Chemistry w/Lab
  or a higher numbered chemistry or physics course

**Humanities** ............................................................................................. **6**

- **HIST 1033** World History
  AND one of the following:
  - **ART 1223** Art Survey
  - **COMM 1263** Introduction to Theatre
  - **LIT 2335** Introduction to Film
  - **LIT 2412** Introduction to Literature
  - **MUSIC 1013** Introduction to Music I
  - **MUSIC 1103** Music and Culture
  - **PHILO 1453** Introduction to Philosophy

**Human, Cultural, & Social Diversity** ..................................................... **3**

- **PSYCH 1003** General Psychology

**Computer Proficiency** ........................................................................... **0-3**

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories) ........ to total 40**

- **COMM 1313** Introduction to Public Speaking

---

### Chemistry Major (B.S.)

**Required Courses** .............................................................................. **35-39**

- **CHEM 4900** Seminar Attendance (enroll each semester)
- **CHEM 1203** General Chemistry I
- **CHEM 1252** General Chemistry I Lab
- **CHEM 1303** General Chemistry II
- **CHEM 1352** General Chemistry II Lab
- **CHEM 2112** Structure and Bonding Theory
- **CHEM 2612** Principles of Laboratory Safety
- **CHEM 3015** Organic Chemistry I
- **CHEM 3124** Quantitative Analysis
- **CHEM 3343** Physical Chemistry I
- **CHEM 4001-4** Chemistry Research (min 2 hrs)
- **CHEM 4115** Organic Chemistry II
- **CHEM 3901** Seminar in Chemistry I
- **CHEM 4901** Seminar in Chemistry II

*Students with 8 hours each of General and/or Organic Chemistry and changing majors to Chemistry may make up the hours by taking one of the chemistry electives below.*

**Electives and Advanced Chemistry** (chosen from this list) ........... **12**

- **CHEM 3233** Inorganic Chemistry
- **CHEM 3211** Inorganic Chemistry Lab
- **CHEM 3244** Environmental Chemistry w/lab
- **CHEM 4011-4** Sem in Chem SpecTopics (when offered)
- **CHEM 4124** Biochemistry
- **CHEM 4223** Polymer Chemistry
- **CHEM 4234** Instrumental Analysis
- **CHEM 4254** Industrial Chem. and Env Regs
- **CHEM 4313** Advanced Organic Synthesis
- **CHEM 4353** Materials Chemistry
- **CHEM 4455** Physical Chemistry II
- **CHEM 4554** Advanced Organic Spectroscopy
- **CHEM 4673** Advanced Metabolism

**Secondary Requirements** ................................................................. **18-21**

- **MATH 1613** College Trigonometry
- **MATH 1834** Calculus I, preferred **AND**
- **MATH 2834** Calculus II, preferred **OR**
- **MATH 2823** Applied Calculus **AND**
- **MATH 1834** Calculus I
- **PHY 2145** General Physics I, preferred **AND**
- **PHY 2155** General Physics II, preferred **OR**
- **PHY 1044** Basic Physics I **AND**
- **PHY 1054** Basic Physics II

**Minor** ............................................................................................. **18-22**

Recommended Minors:  Art, Biology, Computer Science, Electronics, Management, Marketing, Mathematics, Physics, or Political Science

**TOTAL HOURS** ...................................................................................... **120**

**REGULATIONS PERTAINING TO GRADUATION**

- Minimum credit hours for graduation .................................................. **120**
- Minimum credit hours in the liberal arts & sciences .......................... **55**
- Minimum credit hours in upper-division (3000/4000 courses) .......... **40**
- Minimum credit hours (3000/4000 courses) in major completed at SWOSU ................................................................. **8**
- Minimum credit hours at SWOSU (15 of the last 30) ....................... **30**
- Minimum Grade Point Average in all coursework .......................... **2.00**
- Minimum Grade Point Average in major ...................................... **2.00**
- Minimum Grade Point Average in minor ...................................... **2.00**
# CHEMISTRY (B.S.) (Code 105)

## Suggested Course Sequence

### FIRST YEAR

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*First time entering Freshmen need to take 1001 Freshman Orientation*
BACHELOR OF SCIENCE
CHEMISTRY – PROFESSIONAL (Code No. 106)

GENERAL EDUCATION
Courses that are required are in bold type.

REQUIRED CORE COURSES ................................................................. 31-35

Written Communication ................................................................. 6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics .................................................................................... 3

MATH 1513 College Algebra
or a higher numbered math course

U. S. History .................................................................................... 3

Select one course.

HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ..................................................................... 3

POLSC 1103 American Government & Politics

Science ............................................................................................. 7-8

Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.

Life Science .................................................................................... 3-4

BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ................................................................................ 4

CHEM 1004 General Chemistry w/Lab
or a higher numbered chemistry or physics course

Humanities ....................................................................................... 6

HIST 1033 World History

AND one of the following:

ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .................................................. 3

PSYCH 1003 General Psychology

Computer Proficiency ..................................................................... 0-3

Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam, or
COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .................. to total 40

COMM 1313 Introduction to Public Speaking

Chemistry Major (B.S. Professional)

Required Courses ............................................................................ 52-54

CHEM 4900 Seminar Attendance (enroll each semester)
CHEM 1203 General Chemistry I
CHEM 1252 General Chemistry I Lab
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
CHEM 2112 Structure and Bonding Theory
CHEM 2612 Principles of Laboratory Safety
CHEM 3015 Organic Chemistry I
CHEM 3124 Quantitative Analysis
CHEM 3233 Inorganic Chemistry
CHEM 3211 Inorganic Chemistry Lab
CHEM 3343 Physical Chemistry I
CHEM 4001-4 Chemistry Research (min 2 hrs)
CHEM 4115 Organic Chemistry II
CHEM 4124 Biochemistry
CHEM 4234 Instrumental Analysis
CHEM 4455 Physical Chemistry II
CHEM 3901 Seminar in Chemistry I
CHEM 4901 Seminar in Chemistry II

Students with 8 hours each of General and/or Organic Chemistry and
changing majors to Chemistry may make up the hours by taking one of
the chemistry electives below.

Electives and Advanced Chemistry (chosen from this list) .......... 8

CHEM 4011-4 Sem in Chem. Spec. Topics (when offered)
CHEM 4223 Polymer Chemistry
CHEM 4313 Advanced Organic Synthesis
CHEM 4353 Materials Chemistry
CHEM 4554 Advanced Organic Spectroscopy
CHEM 4673 Advanced Metabolism

Secondary Requirements ................................................................. 22

MATH 1834 Calculus I
MATH 2834 Calculus II
MATH 3834 Calculus III

PHYS 2145 General Physics I
PHYS 2155 General Physics II

TOTAL HOURS ................................................................................. 122-124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ............................................. 122
Minimum credit hours in the liberal arts & sciences .................... 55
Minimum credit hours in upper-division
(3000/4000 courses) ........................................................................ 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU ...................................................... 8
Minimum credit hours at SWOSU (15 of the last 30) .................. 30
Minimum Grade Point Average in all coursework .................... 2.00
Minimum Grade Point Average in major .................................. 2.00
Minimum Grade Point Average in minor ................................. 2.00
# Chemistry (B.S. Professional) (Code 106)

**Suggested Course Sequence**

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*First time entering Freshmen need to take 1001 Freshman Orientation*
BACHELOR OF SCIENCE
ENGINEERING PHYSICS (Code No. 153)

GENERAL EDUCATION
Courses that are required are in bold type.

TOTAL GENERAL EDUCATION HOURS .................................................. Min. 40
REQUIRED CORE COURSES ................................................................. 31-35

Written Communication ................................................................. 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics ..................................................................................... 3
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ..................................................................................... 3
Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877

American Government ............................................................... 3
POLSC 1103 American Government & Politics

Science .......................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ..................................................................................... 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ........................................................................... 4
CHEM 1004 General Chemistry w/Lab
or a higher numbered chemistry or physics course

Humanities .................................................................................. 3-4
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .............................................. 3-4
COMM 1313 Introduction to Public Speaking

Computer Proficiency ................................................................. 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ....... to total 40

Engineering Physics Major

Required Courses ........................................................................ 47 - 48
PHY 2021 Introduction to Engineering Physics
PHY 2145 General Physics I
PHY 2155 General Physics II
PHY 2203 Rigid Body Mechanics
PHY 2213 Strength of Materials
PHY 3413 Analog Electronics OR
PHY 3544 Digital Electronics
PHY 3112 Experimental Techniques
PHY 3311 Modern Physics Lab
PHY 3403 Modern Physics for Engineers
PHY 3501 Physics Seminar
PHY 3563 Thermodynamics
PHY 3603 Mechanics
PHY 4644 Electricity & Magnetism I
PHY 4723 Quantum Mechanics

Seven hours selected from:
PHY 3013 Materials Science
PHY 3424 Optics
PHY 3573 Heat Transfer
PHY 3633 Fluid Mechanics
PHY 4663 Electricity and Magnetism II
PHY 4001 Indiv Study in Physics (Physics Research) OR
PHY 4011 Physics Seminar

Other Requirements (Incl. Mathematics minor) ................. 28 - 29
MATH 1613 College Trigonometry
MATH 1834 Calculus I
MATH 2834 Calculus II
MATH 3834 Calculus III
MATH 4213 Differential Equations
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
COMSC 1033 Computer Science I
A 2-3 semester hour course in engineering graphics (e.g., TECH 1203 Engineering Drafting or TECH 3203 Computer Aided Drafting I)

Electives to bring total to 120 ..................................................... 3-5

TOTAL HOURS ................................................................................. 120

Students who have a strong high school background in mathematics are encouraged to take CLEP examinations and complete additional courses in mathematics. The mathematics requirements above satisfy a minor in mathematics.

Students pursuing an engineering degree are encouraged to take a course in economics.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ........................................ 120
Minimum credit hours in the liberal arts & sciences .............. 55
Minimum credit hours in upper-division
(3000/4000 courses) ................................................................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................ 8
Minimum credit hours at SWOSU (15 of the last 30) ........... 30
Minimum Grade Point Average in all coursework ............... 2.00
Minimum Grade Point Average in major ......................... 2.00
## ENGINEERING PHYSICS (Code 153)

### Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1213 English Comp II (3)</td>
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<tr>
<td>1023 Comp &amp; Info Access (3)</td>
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<tr>
<td>1033 Computer Science I (3)</td>
<td>2213 Strength of Materials (3)</td>
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<tr>
<td>2155 Gen Physics II (5)</td>
<td>3403 Modern Physics (3)</td>
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<td>2203 Rigid Body Mechanics (3)</td>
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<td>2834 Calculus II (4)</td>
<td>3834 Calculus III (4)</td>
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<tr>
<td>3112 Exptl Techniques</td>
<td>3424 Optics</td>
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<tr>
<td><strong>OR</strong> 4644 Elec &amp; Mag I (2-4)</td>
<td><strong>OR</strong> 3544 Digital Electronics</td>
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<td>4213 Diff Equations (3)</td>
<td><strong>OR</strong> 3413 Analog Electronics (3-4)</td>
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<tr>
<td>4723 Quantum Mechanics</td>
<td>3603 Mechanics</td>
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<tr>
<td><strong>OR</strong> Physics Elective (3)</td>
<td><strong>OR</strong> 3563 Thermodynamics (3)</td>
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<td>Engineering Graphics (3)</td>
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<tr>
<td>3112 Exptl Techniques</td>
<td>3424 Optics</td>
<td></td>
</tr>
<tr>
<td><strong>OR</strong> 4644 Elec &amp; Mag I (2-4)</td>
<td><strong>OR</strong> 3544 Digital Electronics</td>
<td></td>
</tr>
<tr>
<td>4723 Quantum Mechanics</td>
<td><strong>OR</strong> 3413 Analog Electronics (3-4)</td>
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<tr>
<td><strong>OR</strong> Physics Elective (3-4)</td>
<td>3603 Mechanics</td>
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</tr>
<tr>
<td>General Ed Courses (6-9)</td>
<td><strong>OR</strong> 3563 Thermodynamics (3)</td>
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<tr>
<td><strong>Total (13-14)</strong></td>
<td>4011 Physics Seminar (1)</td>
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</tr>
<tr>
<td></td>
<td>General Ed Courses (6)</td>
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<tr>
<td><strong>Total (13-14)</strong></td>
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*First time entering Freshmen need to take 1001 Freshman Orientation*
INTERDISCIPLINARY STUDIES
COLLEGE OF ARTS AND SCIENCES

Dr. Peter Grant, Dean
Science Building, Room 210
Phone: (580) 774-3704
E-mail: peter.grant@swosu.edu
http://www.swosu.edu/interdisciplinary/

PROGRAM GOALS
The primary educational goals and objectives of the Bachelor of Arts Interdisciplinary Studies degree program are as follows:

Educational goals for this degree are to
- Facilitate life-long learning goals.
- Provide opportunities for learners to develop further knowledge in three discipline areas.
- Allow learners flexibility in designing an interdisciplinary curriculum to meet their individual needs and goals not served by traditional majors.
- Provide an avenue of higher education that meets the needs of learners whether for personal enrichment or professional advancement.
- Provide learners with education mobility options in a world where career changes are increasing.

Educational objectives for this degree are to assist learners in
- Acquiring a broad knowledge in a variety of disciplines.
- Completing the same general education curriculum as traditional students.
- Developing specialized knowledge in three discipline areas.
- Enhancing critical thinking, communication and problem solving skills.
- Gaining intellectual knowledge and experiencing personal growth and enrichment through a broad-based curriculum of study.

PROGRAM OF STUDY
Major: B.A. Interdisciplinary Studies
Minor: Multidisciplinary Studies

GENERAL INFORMATION
The Interdisciplinary Studies program offers maximum flexibility for self-improvement and career enhancement for students who wish to design their own course of study, change their majors late in their academic career, return to SWOSU with new career insights, or attend the University on an irregular basis.

The rapid pace of changes in society and the workplace provides diverse opportunities for the broadly educated academic generalist. Interdisciplinary Studies foster receptivity to new information and innovation. Many employers seek interdisciplinary graduates, finding them well prepared, flexible, adaptive, and able to readily acquire more specialized skills in the workplace.

Increasingly, students are selecting broad-based programs to meet their educational and career goals. Some seek careers in areas that do not require highly concentrated courses of study. When given the opportunity, these students frequently select courses of study that better align with their interests. Employers sometimes seek graduates with broad educational backgrounds. For example, a solid foundation in chemistry, biology, and engineering technology is invaluable to graduates seeking work in environmental science. Multinational companies seek employees well versed in business, international politics, and a foreign language. Individuals wishing to start their own businesses may choose a science or engineering area, management and computer science. The number of students seeking diverse educational programs is growing, as evidenced by the numerous multidisciplinary programs offered through the nation. This program is designed to meet the diverse and changing needs of students and the market place.
BACHELOR OF ARTS
INTERDISCIPLINARY STUDIES (Code No. 190)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

**TOTAL GENERAL EDUCATION HOURS** .................................................. Min. 40
**REQUIRED CORE COURSES** ................................................................. 31-35

Written Communication ................................................................. 6

**Mathematics** ...................................................................................... 3
Select one course.

\[ \begin{align*}
\text{MATH} & \quad 1143 \quad \text{Mathematical Concepts} \\
\text{MATH} & \quad 1153 \quad \text{Mathematical Applications} \\
\text{MATH} & \quad 1513 \quad \text{College Algebra} \\
\text{or a higher numbered math course} \\
\end{align*} \]

**U. S. History** ...................................................................................... 3
Select one course.

\[ \begin{align*}
\text{HIST} & \quad 1043 \quad \text{U.S. History to 1877} \\
\text{HIST} & \quad 1053 \quad \text{U.S. History since 1877} \\
\end{align*} \]

**American Government** ..................................................................... 3

**POLSC** 1103 American Government & Politics

**Science** ............................................................................................. 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** ..................................................................................... 3-4

\[ \begin{align*}
\text{BIOL} & \quad 1004 \quad \text{Biological Concepts w/Lab} \\
\text{BIOL} & \quad 1054 \quad \text{Principles of Biology I w/Lab} \\
\text{BIOL} & \quad 1013 \quad \text{Current Issues in Biology} \\
\end{align*} \]

**Physical Science** .............................................................................. 3-4

\[ \begin{align*}
\text{ASTRO} & \quad 1904 \quad \text{Astronomy} \\
\text{CHEM} & \quad 1004 \quad \text{General Chemistry w/Lab} \\
\text{GEOL} & \quad 1934 \quad \text{Physical Geology w/Lab} \\
\text{SCI} & \quad 1513 \quad \text{Conc of Phy Science (may also take w/lab)} \\
\text{SCI} & \quad 1501 \quad \text{Concepts of Phy Science Lab} \\
\text{PHY} & \quad 1944 \quad \text{Basic Physics I w/Lab} \\
\text{PHY} & \quad 1063 \quad \text{General Physics} \\
\text{or a higher numbered chemistry or physics course} \\
\end{align*} \]

**Humanities** ....................................................................................... 6

\[ \begin{align*}
\text{HUM} & \quad 1103 \quad \text{Introduction to Humanities} \\
\text{OR} & \quad 1033 \quad \text{World History} \\
\end{align*} \]

**AND one of the following:**

\[ \begin{align*}
\text{ART} & \quad 1223 \quad \text{Art Survey} \\
\text{COMM} & \quad 1263 \quad \text{Introduction to Theatre} \\
\text{LIT} & \quad 2333 \quad \text{Introduction to Film} \\
\text{LIT} & \quad 2413 \quad \text{Introduction to Literature} \\
\text{MUSIC} & \quad 1013 \quad \text{Introduction to Music I} \\
\text{MUSIC} & \quad 1103 \quad \text{Music and Culture} \\
\text{PHILO} & \quad 1453 \quad \text{Introduction to Philosophy} \\
\end{align*} \]

**Human, Cultural, & Social Diversity** .................................................. 3-4
Select one course.

\[ \begin{align*}
\text{ASL} & \quad 2163 \quad \text{American Sign Language} \\
\text{CATC} & \quad 1204 \quad \text{Cheyenne Language I (or higher number)} \\
\text{CATC} & \quad 1254 \quad \text{Arapaho Language I (or higher number)} \\
\text{COMM} & \quad 1313 \quad \text{Introduction to Public Speaking} \\
\text{ECON} & \quad 2263 \quad \text{Intro to Macroeconomics} \\
\text{ECON} & \quad 2363 \quad \text{Intro to Microeconomics} \\
\text{GEOG} & \quad 1103 \quad \text{World Cultural Geography} \\
\text{ITAL} & \quad 1004 \quad \text{Elementary Italian I} \\
\text{KINES} & \quad 1133 \quad \text{Wellness Concepts & Exercise Applications} \\
\text{LATIN} & \quad 1054 \quad \text{Elementary Latin I (or higher number)} \\
\text{PSYCH} & \quad 1003 \quad \text{General Psychology} \\
\end{align*} \]

Continued next column

SOCl 1003 Introduction to Sociology
SPAN 1054 Elementary Spanish I (or higher number)
TECH 1223 Technology and Society

**Computer Proficiency** ..................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)** .................. to total 40

Interdisciplinary Studies Major/Minor

**Three Discipline Areas of Emphasis** ................................................ 63
Choose 3 discipline areas from the list below. Each discipline area of emphasis must include 21 credit hours.

**Discipline Areas:**

\[ \begin{align*}
\text{Allied Health Sciences} & \quad \text{English} \\
\text{American Indian Studies} & \quad \text{History} \\
\text{Art} & \quad \text{Kinesiology} \\
\text{Biology} & \quad \text{Mathematics} \\
\text{Business} & \quad \text{Music} \\
\text{Chemistry} & \quad \text{Parks & Rec Mgmt} \\
\text{Communication & Theatre} & \quad \text{Physics} \\
\text{Computer Science} & \quad \text{Political Science} \\
\text{Criminal Justice} & \quad \text{Psychology} \\
\text{Economics} & \quad \text{Spanish} \\
\text{Education} & \quad \text{Technology} \\
\end{align*} \]

Maximum Independent Study/Directed Reading courses are limited to a total of five credit hours per discipline.

**Free Electives** .................................................................................. 17

**Total Hours Required for Degree** .................................................... 120

Courses taken in one area, i.e. General Education, Discipline Areas or Free Electives, may not be used to meet any other requirements of the degree.

**REGULATIONS PERTAINING TO GRADUATION**

\[ \begin{align*}
\text{Minimum credit hours for graduation} & \quad \text{120 credit hours} \\
\text{Minimum credit hours in the liberal arts & sciences} & \quad \text{80 credit hours} \\
\text{Minimum credit hours in upper-division} & \quad \text{40 credit hours} \\
\text{Minimum credit hours (3000/4000 courses in discipline areas completed at SWOSU} & \quad \text{8 credit hours} \\
\text{Minimum credit hours at SWOSU (15 of the last 30)} & \quad \text{30 credit hours} \\
\text{Minimum grade point average in all coursework} & \quad \text{2.00} \\
\end{align*} \]
### DISCIPLINE AREA REQUIREMENTS (Choose 3 areas with 21 hours each to total 63 hours)

#### ALLIED HEALTH SCIENCES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACCTG 1401</td>
<td>Allied Health Careers</td>
</tr>
<tr>
<td>ACCTG 2045</td>
<td>EMS I</td>
</tr>
<tr>
<td>ACCTG 2055</td>
<td>EMS II</td>
</tr>
<tr>
<td>ACCTG 2066</td>
<td>Advanced EMT</td>
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<tr>
<td>ACCTG 2453</td>
<td>Medical Terminology</td>
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<tr>
<td>ACCTG 3043</td>
<td>Health Statistics</td>
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<tr>
<td>ACCTG 3043L</td>
<td>Health Statistics Lab</td>
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<tr>
<td>ACCTG 3073</td>
<td>Diag., Drugs &amp; Therapeu</td>
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</table>

Courses with an * require prerequisite(s)

**Students who select Biology as a discipline area must take BIOL 1054 Principles of Biology (required) in place of Biological Concepts.**

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<tr>
<th>Course Code</th>
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<tr>
<td>BIOL 1054</td>
<td>Principles of Biology I</td>
</tr>
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<td>BIOL 1054L</td>
<td>Princ of Biology Lab I</td>
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<tr>
<td>BIOL 1254</td>
<td>Principles of Biology II</td>
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<tr>
<td>BIOL 1254L</td>
<td>Princ of Biology II Lab</td>
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<td>BIOL 3012</td>
<td>Biology Terminology</td>
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<tr>
<td>BIOL 3053</td>
<td>Cell Biology</td>
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<tr>
<td>BIOL 3152</td>
<td>Genetics &amp; Cell Biol Lab</td>
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<td>BIOL 3253</td>
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<td>BIOL 3283</td>
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<td>BIOL 3304</td>
<td>Aquatic Ecology</td>
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<td>Aquatic Ecology Lab</td>
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<td>BIOL 3604</td>
<td>Biology of Insects</td>
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<td>Biology of Insects Lab</td>
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<td>BIOL 3704</td>
<td>Human Anatomy</td>
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<td>BIOL 3704L</td>
<td>Human Anatomy Lab</td>
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<tr>
<td>BIOL 3814</td>
<td>Biology of Plants</td>
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<td>Biology of Plants Lab</td>
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<td>BIOL 3904</td>
<td>Human Physiology Lab</td>
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<td>BIOL 4010-4</td>
<td>Seminar in Biology</td>
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(A maximum of 4 hrs total of seminar may be counted toward major)

**BUSINESS**

Courses with an * require prerequisite(s)

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<td>ACCTG 2313</td>
<td>Prin of Managerf Acctg</td>
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<td>ACCTG 3213</td>
<td>Accounting Info Systems*</td>
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<td>ACCTG 3313</td>
<td>Intermediate Acctg I*</td>
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<tr>
<td>ACCTG 3323</td>
<td>Intermediate Acctg II*</td>
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<tr>
<td>ACCTG 3493</td>
<td>Analyzing Finan State*</td>
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<td>ACCTG 4013</td>
<td>Seminar in Accounting*</td>
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<td>ACCTG 4113</td>
<td>Acctg Gov’t NonprofiOrg*</td>
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<tr>
<td>ACCTG 4223</td>
<td>Computerized Acctg*</td>
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<tr>
<td>ACCTG 4253</td>
<td>Intro to Comp Forensics*</td>
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<td>ACCTG 4323</td>
<td>Income Tax Acctg II*</td>
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<td>ACCTG 4513</td>
<td>Auditing II*</td>
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<td>Advanced Accounting*</td>
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<td>ACCTG 4763</td>
<td>Adv Cost/Managal Accet*</td>
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<td>ACCTG 4853</td>
<td>Comp Forensics Analysis*</td>
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<td>ENTRP 3113</td>
<td>Intro to MIS*</td>
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<tr>
<td>ENTRP 3123</td>
<td>Legal Env of Business</td>
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<td>FINAN 3123</td>
<td>Risk Management*</td>
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<td>FINAN 3334</td>
<td>Business Finance*</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>FINAN 355</td>
<td>Personal Financial Plan*</td>
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<td>News Gathering/Report</td>
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<td>CRMS 3803</td>
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**EDUCATION**

Completing the appropriate listed courses cannot be construed as qualifying the individual to be certified as a teacher nor to being admitted to the teacher education program.

<table>
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<tr>
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<th>Required Subjects</th>
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<td>ELEM 4352</td>
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<td>EDPSY 3413</td>
<td>Child Psychology</td>
<td>ELEM 4463</td>
<td>Children’s Literature</td>
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<td>KINES 3393</td>
<td>Nutrition for Children</td>
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<td>ELEM 3453</td>
<td>Lang Arts in Elem Sch</td>
<td>LIBED 3423</td>
<td>Media &amp; Technology</td>
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<td>ELEM 3511</td>
<td>CMM Math Elem Tchrs</td>
<td>LIT 4463</td>
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<td>ELEM 3522</td>
<td>CMM/Soc Sci Elem Tchrs</td>
<td>MATH 1503</td>
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<td>ELEM 4222</td>
<td>Phonics &amp; Pennmanship</td>
<td>MATH 2133</td>
<td>Geometry for Elem Tchrs</td>
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</table>

**ENGLISH**

- ENGL 2011-4: Sem in English
- ENGL 2703: Creative Writing
- ENGL 3013: Writing Theory/Practice
- ENGL 3113: Contemporary Fiction
- ENGL 3123: Contemporary Poetry
- ENGL 3473: Creat Writ of Fiction I
- ENGL 3483: Creat Writ of Poetry I
- ENGL 3603: English Grammar
- ENGL 4002-4: Ind Study in English
- ENGL 4012-4: Seminar in English
- ENGL 4423: Intro to Linguistics
- ENGL 4453: Advanced Composition
- ENGL 4483: Creat Writ of Poetry II
- ENGL 4463: Creative Nonfiction
- ENGL 4675: Teaching of HS English

**HISTORY**

- HIST 2603: Writing History
- HIST 3043: Early Modern Europe
- HIST 3063: History of Ireland
- HIST 3083: Nationalism/Ethnicity
- HIST 3103: Medieval England
- HIST 3113: Tudor England
- HIST 3173: History of Ideas
- HIST 3193: European Union
- HIST 3203: History of Germany
- HIST 3303: History Imperial Russia
- HIST 3403: Modern France

**KINESIOLOGY**

- KINES 1153: Nutrition
- KINES 1932: Tech Ap Gym Fit Aqua
- KINES 1942: Tech App Indiv Sports
- KINES 1952: Tech Appl to Team Sprt
- KINES 2212: First Aid
- KINES 2222: Introduction to Kinesiology
- KINES 2242: Sports Officiating
- KINES 2502: Care/Prev of Athl Inj
- KINES 3133: Teaching Health Public School
- KINES 3353: Health and Aging
- KINES 3393: Nutrition for Children
- KINES 3443: Kinesiology & Anatomy
- KINES 3553: Methods Materials Elem HPER

**MATHEMATICS**

- MATH 1513: College Algebra
- MATH 1613: College Trigonometry
- MATH 1715: College Algebra & Trig
- MATH 1834: Calculus I
- MATH 2001-4: Ind Study in Mathematics
- MATH 2011-4: Sem in Mathematics
- MATH 2213: Foundations of Educ
- MATH 3431: Statistical Methods
- OR MATH 3433: Statistics I

**MUSIC**

Required COURSE 1103: Music and Culture
Required COURSE 1213: Music Theory I
Required COURSE 1221: Aural Skills I
**Electives - Select 4 hours from the following list**

- **MUSIC 1112** Fund of Music
- **MUSIC 1313** Music Theory II
- **MUSIC 1321** Aural Skills II
- **MUSIC 1411** Brass Class
- **MUSIC 1511** Woodwind Class
- **MUSIC 1611** Percussion Class
- **MUSIC 1711** String Class
- **MUSIC 1911** Begin Guitar Class

**PARKS AND RECREATION MANAGEMENT**

- **NRM 2103** Wildland Fire Mgmt
- **NRM 2112** Adv Firefighting Methods
- **NRM 2122** Ignition Operations
- **NRM 2132** Fireline Leadership & ICS
- **NRM 4172** Natural Resource Law
- **NRM 4201** Park Ranger
- **NRM 4211** Game and Fish Law
- **NRM 4773** Nat Res Rec Mgmt
- **NRM 4802** Wildland Fire Ecology
- **NRM 4812** Wildlife Management
- **PRM 2102** Found of Parks and Rec

**PHYSICS**

- **ASTRO 4011-4** Sem in Astronomy
- **GEOL 4011-4** Seminar in Geology
- **PH 1044** Basic Physics I
- **PH 1044L** Basic Physics I Lab
- **PH 1054** Basic Physics II
- **PH 1054L** Basic Physics II Lab
- **PH 1064** General Physics
- **PH 1072** Intro Electronics
- **PH 2145** General Physics I
- **PH 2145L** General Physics I Lab
- **PH 2155** General Physics II
- **PH 2155L** Gen Physics II Lab
- **PH 2203** Rigid Body Mechanics

**POLITICAL SCIENCE**

- **POLSC 2303** Comparative Politics
- **POLSC 2623** Criminal Law & Procedure

**POLITICAL SCIENCE**

- **POLSC 2803** The Judicial Process
- **POLSC 3003** Federal Constitution
- **POLSC 3113** Political Theory
<table>
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<td>POLSC 4233</td>
<td>Urban Politics &amp; Elections</td>
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</table>
DEPARTMENTAL GOALS
The faculty instill the objectives below through strategies that implement critical thinking, creativity, collaboration, connection and communication.

1. Deep learning of academic content through languages, literatures and cultures with respect to understanding their connections to life circumstances.
2. Demonstration of intellectual development including critical and creative thinking and effective oral and written communication.
3. Acquisition of professional skills including digital and rhetorical literacy, cultural competency, community and collaboration.

PROGRAMS OF STUDY

MAJORS: B.A.Ed. English Education (Listed in Dept. of Education)
B.A. English
- Literature Emphasis
- Writing Emphasis

MINORS: English
- Literature Emphasis
- Writing Emphasis
Spanish

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(Considered in Dept. of Education)
B.A. English
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- Writing Emphasis

MINORS: English
- Literature Emphasis
- Writing Emphasis
Spanish

GENERAL INFORMATION
The Language and Literature Department offers numerous opportunities for students to practice their skills as readers, writers, speakers, and editors.

Student organizations and activities supported by the department include Sigma Tau Delta, the English Club, Sigma Delta Pi, the Spanish Club, the ESL Club, and the League of Legends Club.

Westview, a literary journal featuring short stories, poetry, and essays affords students a publishing venue and editing internships.

For more information, visit our web site at:
http://www.swosu.edu/langarts
BACHELOR OF ARTS
ENGLISH (Code No. 112)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

**TOTAL GENERAL EDUCATION HOURS** ................................................................. Min. 40
**REQUIRED CORE COURSES** ................................................................................. 31-35

**Written Communication** ......................................................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

**Mathematics** ........................................................................................................... 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

**U. S. History** ............................................................................................................... 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

**American Government** ............................................................................................... 3

**POLSC 1103 American Government & Politics**

**Science** ........................................................................................................................... 7-8
Select one course from **Life Science** and one course from **Physical Science**. 
One Science course must be a lab science.

**Life Science** ................................................................................................................. 4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

**Physical Science** ......................................................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered physics or physics course

**Humanities** .................................................................................................................. 6
HUM 1103 Introduction to Humanities
AND
LIT 2413 Introduction to Literature

**Human, Cultural, & Social Diversity** ......................................................................... 3-4
Select one course.
ASL 2163 American Sign Language
CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)
COMM 1513 Introduction to Public Speaking
ECON 2263 Intro to Macroeconomics
ECON 2363 Intro to Microeconomics
GEOG 1103 World Cultural Geography
ITAL 1004 Elementary Italian I
KINES 1133 Wellness Concepts & Exercise Applications
LATIN 1054 Elementary Latin I (or higher number)
PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
SPAN 1054 Elementary Spanish I (or higher number)
TECH 1223 Technology and Society

**Computer Proficiency** ................................................................................................. 0-3
Students must demonstrate computer proficiency (high school computer science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives** (from at least two different categories) ............................................. to total 40

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**English Major**

**Writing Option**

**Required Courses** ................................................................................................. 20
ENGL 3113 Contemporary Fiction
ENGL 3123 Contemporary Poetry
ENGL 3603 English Grammar
ENGL 3663 Creative Nonfiction I
ENGL 3473 Creative Writing of Fiction I
ENGL 3483 Creative Writing of Poetry I
ENGL 4882 English Senior Capstone

**Advanced Electives (select two)** ................................................................................. 6
ENGL 4663 Creative Nonfiction II
ENGL 4473 Creative Writing of Poetry II
ENGL 4483 Creative Writing of Fiction II

**Writing Electives (select three)** ................................................................................. 9
ENGL 3653 Writing in the Disciplines
LIT 4423 Introduction to Linguistics
ENGL 4453 Advanced Composition
ENGL 4473 Creative Writing of Poetry II
ENGL 4483 Creative Writing of Fiction II
ENGL 4773 Editing

**Literature Electives (select two)** .................................................................................. 6
LIT 4763 British Literary Heritage to 1800
LIT 4123 British Literature 1795-1950
LIT 4553 Issues in American Literature
LIT 3323 Modern Voices in American Literature
LIT 3113 Early World Literature
LIT 4113 Modern World Literature

**Elective upper-level ENGL or LIT course** .................................................................. 12
LIT 4463 Children’s Literature will not count for credit in the English major.

**Minor** .......................................................................................................................... 18-22

**Free Electives to reach 120 hrs** .................................................................................. 5-9

**TOTAL HOURS** ........................................................................................................... 120

**Literature Option**

**Required Courses** ................................................................................................. 29
ENGL 3013 Writing Theory/Practice
ENGL 3023 Literary Theory/Practice
ENGL 3603 English Grammar
LIT 3323 Modern Voices in American Literature
LIT 4123 British Literature 1795-1950
LIT 4553 Issues in American Literature
LIT 4763 British Literary Heritage to 1800
LIT 4993 The Novel
ENGL 4882 English Senior Capstone

**Select one World Lit course:**
LIT 3113 Early World Literature
LIT 4113 Modern World Literature

**Guided Writing Elective (Select one of the following)** ........................................ 3
ENGL 3473 Creative Writing of Fiction I
ENGL 3483 Creative Writing of Poetry I
ENGL 3653 Writing in the Disciplines
ENGL 4453 Advanced Composition
ENGL 4663 Creative Nonfiction I
ENGL 4773 Editing

**Guided Literature Elective (Select two of the following)** ...................................... 6
LIT 3033 World Mythology
LIT 3333 Shakespeare in Context
LIT 3343 World Folk Literature
LIT 4423 Introduction to Linguistics
LIT 4593 Diversity in American Literature
LIT 4883 Women and Literature
Elective upper-level ENGL or LIT course.............................................. 12
LIT 4463 Children's Literature will not count for credit in the English major.

World Language: A course beyond Elementary I........................... 3-4

Minor................................................................................................. 18-22

Free Electives to reach 120 hrs......................................................... 4-8

TOTAL HOURS.................................................................................. 120

For the minor program, refer to the English minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation................................. 120
Minimum credit hours in the liberal arts & sciences............ 80
Minimum credit hours in upper-division
(3000/4000 courses)................................................................. 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU......................................... 8
Minimum credit hours at SWOSU (15 of the last 30)........ 30
Minimum Grade Point Average in all coursework.......... 2.00
Minimum Grade Point Average in major......................... 2.00

Students must participate in an exit assessment interview conducted by a faculty committee or the department chair.
## ENGLISH: Writing Emphasis (Code 112)

### Suggested Course Sequence

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<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<td>1001 Freshman Orient* (1)</td>
<td>1103 Amer Gov't Politics (3)</td>
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<td>1043 or 1053 U.S. History (3)</td>
<td>1213 English Comp II (3)</td>
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<td>3473 Creat Wrtng Fiction I (3)</td>
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<td>2413 Intro to Literature (3)</td>
<td>GE Elective from Human, Cultural and Social Diversity (3-4)</td>
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<tr>
<td>Computer Proficiency (0-3)</td>
<td>Life science GE Option (with or without lab) (3-4)</td>
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<td>OR Area 1 GE elective (3)</td>
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<td>Guided LIT elective (3)</td>
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<tr>
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<td></td>
<td>Sr-level Lit Elective (3)</td>
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*First time entering Freshmen need to take 1001 Freshman Orientation.
# ENGLISH: Literature Emphasis (Code 112)

## Suggested Course Sequence

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<tr>
<td>Introduction to Humanities (3)</td>
<td>Free ENGL/LIT Elective (3)</td>
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<tr>
<td>Physical Science (with or without Lab) (3-4)</td>
<td>Guided Writing Elective (3)</td>
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<td>Guided LIT Electives (3)</td>
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<td>Guided LIT Electives (3)</td>
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</tbody>
</table>

*First time entering Freshmen need to take 1001 Freshman Orientation.
DEPARTMENT OF MATHEMATICS
COLLEGE OF ARTS AND SCIENCES

FACULTY

Thomas McNamara, Chair
Campbell Building, Room 302
Phone: (580) 774-3748
E-mail: thomas.mcnamara@swosu.edu
http://www.swosu.edu/math/

Warren Akers ........................................CAM 324 F .................................................................(580) 774-7147
Hung-Chieh Chang ..................................CAM 309 G .................................................................(580) 774-3055
Catherine DeVaughn ................................CAM 309 C .................................................................(580) 774-3056
Michael Dougherty ..................................CAM 324 B .................................................................(580) 774-3057
Swarup Ghosh .........................................CAM 324 C .................................................................(580) 774-3059
Ron Koehn .............................................CAM 309 B .................................................................(580) 774-7119
Kathy O’Neal ..........................................CAM 324 E .................................................................(580) 774-3210
Roberta Rivera ........................................CAM 309 A .................................................................(580) 774-3759

DEPARTMENTAL GOALS
1. To provide the mathematical skills and knowledge needed by students preparing for a productive life in a rapidly changing world.
2. To strengthen and enrich the general education program.
3. To train quality mathematics teachers for the public schools.
4. To provide a solid foundation for students who will continue mathematics studies at the graduate level.
5. To prepare mathematics students for a wide variety of vocations in business, industry, and government service.
6. To provide a supportive second field of knowledge for students in other areas of study.

Mathematical skills, knowledge, and abilities learned in mathematics courses are applied in a variety of vocations to achieve goals and resolve challenging problems. A broad foundation in basic mathematics courses, emphasizing concepts and problem solving skills together with in-depth knowledge in chosen areas from higher mathematics, prepares students to function successfully in their career fields.

The department firmly believes that a competent user of mathematics must first be a good student of mathematics.

PROGRAMS OF STUDY

Major: B.S. Mathematics
B.S.Ed. Mathematics Education
(Listed in Dept. of Education)

Minors: Mathematics
Statistics

Master: M.Ed. Mathematics
(See the Graduate Catalog for more information.)

PROGRAM GOALS

B.S. Mathematics
1. To prepare students for study of mathematics at the graduate level.
2. To prepare students to enter a wide variety of vocations in business, industry, and government service that require advanced mathematical skills.
3. To provide instruction for students to develop basic skills and knowledge as they prepare for a productive life in a rapidly changing technological world.

B.S.Ed. Mathematics Education
1. Mastery of mathematics content.
2. Establish learning objectives and plan for student involvement in the learning process.
3. Organize and use several instructional methods, i.e., lecture, group, activity, and discovery.
4. Plan for and use resources: texts, multimedia, microcomputers, and resource personnel.
5. Organize instruction for individual differences.
6. Design a learning environment in the classroom.
7. Demonstrate planning for community involvement and/or personal and professional growth in education.

GENERAL INFORMATION

Incoming freshmen are placed in their first mathematics course according to their major, their mathematics background, and their enhanced ACT or departmental placement scores in mathematics. Since a student's success in each mathematics course depends on the knowledge and skills developed in other mathematics courses, the student is expected to work carefully with his/her advisor in planning his/her enrollment in mathematics. Majors must maintain at least a 2.5 GPA in their mathematics coursework.

A student with Advanced Placement Calculus (AB or BC) qualifies for several hours of mathematics credit. Such students should check with the Mathematics Department to determine credit earned and the next course in which to enroll. CLEP examinations are available in College Algebra, Precalculus, and Calculus I for students who wish to earn credit by examination in any of these courses. The Precalculus CLEP exam may be used to earn credit for College Trigonometry.

A mathematics major or minor will provide students with many job opportunities in fields besides teaching, such as actuarial
sciences, energy fields, computer programming, economics, banking, law, computer analysis, and many more. Most job settings require workers to be problem solvers. A mathematics major or minor, when paired with another area of study, enhances job placement in almost any area. Mathematics graduates at SWOSU have been successful in finding jobs in a wide variety of career fields and in pursuing graduate degrees in mathematics and/or computer science and other related fields.

The Mathematics Department promotes the appropriate use of technology in the teaching and learning of mathematics. Networked PC labs with various mathematical and statistical software packages are located within the department. In addition, several classroom sets of graphing calculators are often used as problem solving and investigative tools. All students enrolled in College Algebra are able to borrow a graphing calculator.

Several mathematics majors and minors work in our tutor lab to provide students with any extra math tutoring they might need. Opportunities also exist for employment as homework graders.

Southwestern Oklahoma State University has an active chapter of the Mathematics Honor Society, Kappa Mu Epsilon (KME), whose main objective is to further student interest in mathematics and to familiarize the members with advances being made in this subject. Many students in the Mathematics Department have been active in joining KME and in attending regional and national meetings organized by the society and by the Mathematical Association of America (MAA).

The Mathematics Department also partners with the Education Department to train Mathematics Education majors to become highly qualified mathematics teachers at the junior and senior high school levels.

For more information, visit our web site at:
http://www.swosu.edu/math/
GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ...................................................... 31-35
Written Communication ......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ...............................................................................0
Waived due to major requirements
U. S. History .............................................................................. 3
Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877
American Government ............................................................... 3
POLS 1103 American Government & Politics
Science .......................................................................................7-8
Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.
Life Science ...............................................................................3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology 1w/Lab
BIOL 1013 Current Issues in Biology
Physical Science .........................................................................3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics 1w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course
Humanities ...............................................................................6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy
Human, Cultural, & Social Diversity ...........................................3-4
Select one course.
ASL 2163 American Sign Language
CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)
COMM 1313 Introduction to Public Speaking
ECON 2263 Intro to Macroeconomics
ECON 2363 Intro to Microeconomics
GEOG 1103 World Cultural Geography
ITAL 1004 Elementary Italian I
KINES 1133 Wellness Concepts & Exercise Applications
LATIN 1054 Elementary Latin I (or higher number)
PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
SPAN 1054 Elementary Spanish I (or higher number)
TECH 1223 Technology and Society
Computer Proficiency ............................................................... 0-3
Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam, or
COMSC 1023 Computer & Info Access).
GE electives (from at least two different categories) .................. to total 40

BACHELOR OF SCIENCE
MATHEMATICS (Code No. 134)

Mathematics Major

Required Courses .................................................................29-30
MATH 1513 College Algebra AND
MATH 1613 College Trigonometry
OR MATH 1715 College Algebra and Trigonometry
MATH 1834 Calculus I
MATH 2834 Calculus II
MATH 3653 Linear Algebra
MATH 3834 Calculus III
MATH 4213 Differential Equations I
MATH 4653 Modern Algebra
MATH 4853 Advanced Calculus

Electives in Math (Choose from 3000-4000 Level Courses) ....... 6

Computer Science ................................................................. 3
Any Scientific Programming Language OR
MATH 3533 Tech and Programming in Mathematics

Minor or Second Major .........................................................18-40

Free Electives to bring total to 120 ...........................................0-24

TOTAL HOURS ............................................................................ 120

For the minor program only, refer to the Mathematics minor
in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .......................................120
Minimum credit hours in the liberal arts & sciences ............... 55
Minimum credit hours in upper-division
(3000/4000 courses) ................................................................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ..................................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ............. 30
Minimum Grade Point Average in all coursework ............... 2.00
Minimum Grade Point Average in major ............................. 2.50

Students should work closely with their advisors to ensure that they
take mathematics courses in the appropriate sequence. For example,
taking a 1000 level mathematics course after successfully completing
Calculus I is usually not recommended. Deviations from the appropriate
sequence require departmental approval.
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<td>4213 Differential Equations I (3)</td>
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<td>3533 Tech and Programming Math*** (3)</td>
<td>4853 Advanced Calculus (3)</td>
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<td>4653 Modern Algebra (3)</td>
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</table>

* Student schedules can vary considerably due to incoming skills, ability to enroll in summer courses, transfers or changes of major, and course availabilities. The above schedule is a guideline only, and students should consult with their advisors regularly to make any needed adjustments.

** Or second major

*** Any scientific programming language OR MATH 3533 Technology and Programming in Mathematics
DEPARTMENT OF MUSIC
COLLEGE OF ARTS AND SCIENCES

FACULTY

David Bessinger, Chair
Fine Arts Center, Room 100
Phone: (580) 774-3765
E-mail: david.bessinger@swosu.edu
http://www.swosu.edu/music/

Yu-Ling Chen..........................BMH 106 yu-ling.chen@swosu.edu (580) 774-3709
Stacey DiPaolo..........................FAC 105 stacey.dipaolo@swosu.edu (580) 774-3718
Daniel Farris..........................FAC 108 daniel.farris@swosu.edu (580) 774-3208
Kristin Griffeth.........................FAC 120 kristin.griffeth@swosu.edu (580) 774-3219
Robin Griffeth..........................FAC 119 robin.griffeth@swosu.edu (580) 774-7105
Alex Lee...................................MTL 103 alex.lee@swosu.edu (580) 774-6840
Sophia Lee...............................MTL 104 sophia.lee@swosu.edu (580) 774-3218
Shelley Martinson.........................FAC 106 shelley.martinson@swosu.edu (580) 774-3297
Marc Mueller..........................FAC 109 marc.mueller@swosu.edu (580) 774-3175
Janis South................................BMH 104 janis.south@swosu.edu (580) 774-3715
Richard Tirk.........................BMH 105 richard.tirk@swosu.edu (580) 774-3772
Matthew Tracy..........................MTL 102 matthew.tracy@swosu.edu (580) 774-3217

DEPARTMENTAL GOALS
The objectives of the Department of Music are:
1. To enrich the understanding of music through the study of music literature, history, and theory.
2. To prepare students as Musicians and/or Music Business employees and/or Music Educators in accordance with the standards of the National Association of Schools of Music.
3. To provide experience and training in musical performance.
4. To serve the university community and region through the performance of musical compositions.
5. For the Bachelor of Music in Music Therapy - To prepare students as Music Therapists in accordance with competency standards of the American Music Therapy Association.

PROGRAMS OF STUDY

Majors:
B.M. Music Performance
- Piano or Organ
- Voice
- Orchestral Instrument

B.M. Elective Studies in Business

B.M. Music Therapy
- Instrumental Emphasis
- Vocal/Keyboard Emphasis

B.M.Ed. Music Education
(Listed in Dept. of Education)
- Instrumental/General Music
- Vocal/General Music

Minor: Music

Master:
M.M. Choral Music Education
M.M. Instrumental Music Education
M.M. Performance
M.M. Music Therapy
(See Graduate Catalog for more information.)

For more information visit our web site at:
http://www.swosu.edu/music/

GENERAL INFORMATION

FACILITIES: The Department of Music occupies three buildings on the university campus: the Fine Arts Center, the Berrong Music Hall, and the Music Therapy Language Center.

PERFORMING ORGANIZATIONS: All students of the university are welcome to enroll, if they possess the necessary skills, in any of the following performing organizations: Marching Band (Fall), Symphonie Band (Spring), Jazz Ensemble B, Woodwind Ensemble, Brass Ensemble, and Percussion Ensemble. No signature is required for enrollment in these classes. All students of the university are eligible to audition for the following performing organizations: University Orchestra, Wind Symphony (Spring), Jazz Ensemble A, Southwestern Singers and Chamber Choir. No signature is required for enrollment in these classes; however, students who do not pass the audition will be dropped.

DEGREE REQUIREMENTS: Policies and procedures concerning enrollment in Music degree programs and applied music proficiency exams are detailed in this catalog and in the Music Student Handbook posted on the department website. Some program requirements and procedures are listed in the handbook rather than in this catalog. Each student must obtain current information concerning the degree program from that source.

Applied Music

Applied Music designates class or private instruction in musical performance on any music instrument or the voice. A student's principal area is the study of one instrument or the voice, which is considered to be the best, or major area. Other areas of applied music study are designated secondary areas. A music major must enroll each semester in the principal applied music area.

Each freshman music major must enroll in individual lessons or class instruction in the principal applied music area and in piano during the first semester of his/her work at SWOSU. No student may enroll in more than three applied music courses during one
semester without special approval from the Chair of the Department of Music.

Students enrolled in one semester hour of applied music (individual study) receive one private lesson each week (twenty-five minutes). Those enrolled in two semester hours receive a total of fifty minutes of private instruction each week.

Each student enrolled in individual lessons (applied music) must perform for a faculty committee at the end of each semester of enrollment. Students who fail to take this exam, called an applied music jury, will receive only the grades of W or F. These performances are not open to the public.

**Proficiency Exams in Applied Music**

All students, regardless of major, who complete more than one semester of applied music study, must take Applied Music Proficiency Exams. Music majors and endorsement students must pass two levels of proficiency exams in their principal applied music area. Music minors must pass one level in their principal applied music area.

Level I (Principal Applied Music Area): An advisory exam that each student must pass to progress through the program. It is recommended that this exam be taken at the end of the second semester of study.

Level II (Principal Applied Music Area): Each student must take this exam before giving a senior recital. It is recommended that this exam be taken at the end of the fifth semester of study.

Normally, two semesters of study must elapse between the successful completion of Level I and the first attempt to pass Level II. However, this is at the discretion of the applied professor.

Transfer students must enter the proficiency exam schedule as outlined in the student handbook of the department.

Applied music standards differ for each degree program. When the faculty certifies that a student has passed each level, this certification satisfies requirements only for the degree program which the student has declared at the time he takes the exam. Students who change from one music degree program to another must begin the exam cycle again.

Applied music proficiency standing may not be transferred from other colleges or universities. Proficiency exams are part of the course requirements for the semesters during which the student must take one of the exams.

Students seeking degrees in Music Therapy and/or the eligibility for the National Board Certification Examinations for Music Therapists must pass proficiency examinations in piano, voice, and guitar before enrolling in 4242-4 Music Therapy V. Music Therapy students are subject to the same two level proficiency examinations in their principal applied music area as other majors.

**Senior Recital**

All degrees in music, except the Music Therapy degree, require the performance of a senior recital of length and difficulty appropriate to the degree program. This recital is not performed until written permission from the faculty and chair has been obtained following a formal preview of the recital called the recital hearing. Except for organ, senior recitals must be performed on the campus of Southwestern. Senior recital credit will not be transferred from other colleges or universities. Specific information concerning standards and administration of the applied music program may be obtained from the coordinator of each division or from the music department office. The student is subject to these and should be familiar with them.

Senior recitals which meet the requirements for one degree program do not satisfy recital requirements in other degree programs. Music Therapy majors may, with faculty permission, elect a special project in lieu of the recital requirement.

**Ensemble Participation**

Participation in a major music performance ensemble designated by the department as appropriate for the student's principal performance area is required each fall and spring semester for full-time and part-time students, except for the student teaching semester of music education majors and the intern semester for music business and music therapy majors.

**Recital Attendance**

Enrollment in Recital Attendance 4900 is required during each semester of enrollment at SWOSU (full-time and part-time students), except for the student teaching semester of Music Education majors and the intern semester for Music Business and Therapy majors. Majors whose degree programs allow enrollment in 4900 must present a minimum of seven enrollments with no grade lower than D.

**Double Majors in Music**

Students may not work toward two concurrent degrees in music except by written permission of the Music department faculty and chair. Applied music standards differ for each degree. Application for permission to work toward two degrees (double major) in music must be made no later than the fourth semester of undergraduate enrollment so that the student's progress in each program may be supervised by the appropriate faculty members.
BACHELOR OF MUSIC (Codes 141, 142, 143, 146)

General Education
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

**TOTAL GENERAL EDUCATION HOURS** ........................................... Min. 40
**REQUIRED CORE COURSES** ......................................................... 31-35

**Written Communication** ............................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

**Mathematics** .................................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

**U. S. History** ................................................................................... 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

**American Government** ................................................................. 3
POLSC 1103 American Government & Politics

**Science** ........................................................................................ 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** ................................................................................ 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

**Physical Science** ........................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

**Humanities** ................................................................................... 6
HUM 1103 Introduction to Humanities
MUSIC 1103 Music and Culture

**Human, Cultural, & Social Diversity** .............................................. 3
PSYCH 1003 General Psychology

**Computer Proficiency** ................................................................. 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least 2 different categories)** ............ to total 40

Bachelor of Music

The Bachelor of Music major includes 40 hours of core requirements, a selected music specialty, and electives approved by the department to total 120 hours.

**Core Requirements** ........................................................................ 40
MUSIC 1213 Music Theory I
MUSIC 1221 Aural Skills I
MUSIC 1313 Music Theory II
MUSIC 1321 Aural Skills II
MUSIC 2981 Principles of Conducting
MUSIC 3101 Instrumental Conducting
OR MUSIC 3151 Choral Conducting
MUSIC 3253 Music Theory III
MUSIC 3261 Aural Skills III
MUSIC 3303 Music Theory IV
MUSIC 3311 Aural Skills IV
MUSIC 3353 History of Music I
MUSIC 3403 History of Music II
MUSIC 3553 History of Music III
MUSIC 4812 Advanced Music Analysis
MUSIC 4232 Arranging
MUSIC 4261 Intro to Music Technology
MUSIC 4900 Recital Attend (Enroll each semester)
In instrumental or choral ensembles, 8 hours (Enroll each semester)

**Majors must select a specialization from the following areas:**

**Performance -- Piano or Organ (Code No. 141)**
Required ................................................................. ........................................... 30
Principal Applied Area (Piano or Organ), 16 hours
(One instrument, individual instruction only, enroll each semester)
Applied Music Proficiency Exams in Principal Area
Secondary Applied Area, 4 hours
Applied Music Proficiency Exams in Secondary Area
MUSIC 2861 Accompanying, 4 hours
MUSIC 2901 Piano Ensemble and Accompanying
MUSIC 4352 Piano Pedagogy
MUSIC 4552 Piano Literature
MUSIC 4951 Senior Recital (Principal area)
Free Electives in Music to total 120 hours............................................. 10

**Performance -- Voice (Code No. 142)**
Required ................................................................. ........................................... 30
Applied Voice, 16 hours
(Individual instruction only, enroll each semester)
Applied Music Proficiency Exams in Principal Area
MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II
MUSIC 2831 Class Piano III
MUSIC 2841 Class Piano IV
Applied Piano 2 hours
MUSIC 2951 Modern Language Diction
MUSIC 3951 Advanced Modern Language Diction
MUSIC 4442 Vocal Literature
MUSIC 4452 Vocal Methods
MUSIC 4951 Senior Recital (Voice)
Orchestral Instrument Classes, 1 hour
Free Electives in Music to total 120 hours............................................. 10

(CONTINUED ON NEXT PAGE)
**Performance - Orchestral Instrument (Code No. 143)**

Required: 28

Principal Applied Music Area, 16 hours
(One instrument, individual instruction only, enroll each semester)

Applied Music Proficiency Exams in Principal Area

Secondary Applied Music Areas
(Orchestral instrument Classes), 4 hours
Voice (Class or Applied), 1 hour

- **MUSIC 2811** Class Piano I
- **MUSIC 2821** Class Piano II
- **MUSIC 2831** Class Piano III
- **MUSIC 2841** Class Piano IV
- **MUSIC 4222** Instrumental Pedagogy
- **OR MUSIC 4012** String Pedagogy
- **MUSIC 4951** Senior Recital (Principal Area)

Free Electives in Music to total 120 hours: 12

**Elective Studies in Business (Code No. 146)**

Required: 39

Principal Applied Music Area, 8 hours
(Choose only one orchestral instrument, piano, organ or voice, individual instruction only, enroll each semester)

Applied Music Proficiency Exams in Principal Area

Secondary Applied Music Area, 4 hours
(The secondary area must be piano if it is not the principal area)

- **MUSIC 2811** Class Piano I
- **MUSIC 2821** Class Piano II
- **MUSIC 2831** Class Piano III
- **MUSIC 2841** Class Piano IV
- **MUSIC 4402** Band Methods **AND**
- **MUSIC 4602** Inst. Lit. **OR**
- **MUSIC 4452** Vocal Methods **AND**
- **MUSIC 4502** Choral Lit.
- **MUSIC 4950** Senior Recital (Principal area)
- **MUSIC 1411** Brass Class
- **MUSIC 1511** Woodwind Class
- **MUSIC 1611** Percussion Class
- **MUSIC 1711** String Class
- **MUSIC 1911** Beginning Guitar Class
- **MUSIC 4003** Individual Study in Music (Internship)
- **ACCTG 2213** Principles of Financial Accounting
- **MRKTG 3143** Principles of Marketing
- **MRKTG 3243** Promotional Strategy
- **MRKTG 3443** Marketing/Consumer Behavior
- **ENTRP 3113** Introduction to MIS

Free Electives in Music to total 120 hours: 1

**TOTAL HOURS**: 120

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation: 120
Minimum credit hours in the liberal arts & sciences: 40
Minimum credit hours in upper-division (3000/4000 courses): 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU: 8
Minimum credit hours at SWOSU (15 of the last 30): 30
Minimum Grade Point Average in all course work: 2.00
Minimum Grade Point Average in major: 2.00
### Bachelor of Music with Emphasis in MUSIC PERFORMANCE PIANO or ORGAN (Code 141)

#### Suggested Course Sequence

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<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1213 English Composition II (3)</td>
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<tr>
<td>1103 Music and Culture (3)</td>
<td>1313 Music Theory II (3)</td>
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<tr>
<td>1113 English Composition I (3)</td>
<td>1321 Aural Skills II (1)</td>
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<tr>
<td>1213 Music Theory I (3)</td>
<td>4261 Intro to Music Tech (1)</td>
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<td>1221 Aural Skills I (1)</td>
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<tr>
<td>2981 Principles of Conducting (1)</td>
<td>3101 or 3151 Conducting (1)</td>
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<tr>
<td>3253 Music Theory III (3)</td>
<td>3303 Music Theory IV (3)</td>
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<tr>
<td>3261 Aural Skills III (1)</td>
<td>3311 Aural Skills IV (1)</td>
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<tr>
<td>3353 History of Music I (3)</td>
<td>3403 History of Music II (3)</td>
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<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>4812 Advance Music Analysis (2)</td>
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<td>4900 Recital Attendance (0)</td>
<td>4232 Arranging (2)</td>
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<td>Music Elective (1)</td>
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* First time entering Freshmen need to take 1001 Freshman Orientation

These required courses are offered at irregular intervals or may be taken at any time.
### Bachelor of Music with Emphasis in MUSIC PERFORMANCE VOICE (Code 142)

#### Suggested Course Sequence

**FIRST YEAR**

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<td>2821 Class Piano II (1)</td>
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<td>2811 Class Piano I (1)</td>
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**SECOND YEAR**

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**THIRD YEAR**

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**FOURTH YEAR**

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<td>Total (13)</td>
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These required courses are offered at irregular intervals or may be taken at any time.

2951 Modern Lang Diction 4261 Intro to Music Tech 4452 Vocal Methods Orchestral Instr Classes (2 Hrs)

Adv. Modern Lang Diction Vocal Literature
Bachelor of Music with Emphasis in MUSIC PERFORMANCE ORCHESTRAL INSTRUMENT (Code 143)
Suggested Course Sequence

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<tbody>
<tr>
<td>2101 Voice Class (1)</td>
<td>2841 Class Piano IV (1)</td>
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<tr>
<td>2831 Class Piano III (1)</td>
<td>3101 Instrumental Conducting (1)</td>
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<tr>
<td>2981 Principles of Conducting (1)</td>
<td>3303 Music Theory IV (3)</td>
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<tr>
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<td>3311 Aural Skills IV (1)</td>
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<td>3261 Aural Skills III (1)</td>
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<tr>
<td>3353 History of Music I (3)</td>
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<td>2101 Voice Class (1)</td>
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<tr>
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* First time entering Freshmen need to take 1001 Freshman Orientation
Bachelor of Music with Emphasis in MUSIC with ELECTIVES in BUSINESS (Code 146)
Suggested Course Sequence

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<tr>
<th>FIRST YEAR</th>
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<td>1103 Music and Culture (3)</td>
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<td>1113 English Composition (3)</td>
<td>1321 Aural Skills II (1)</td>
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<td>1213 Music Theory I (3)</td>
<td>2821 Class Piano II (1)</td>
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<tr>
<td>1221 Aural Skills I (1)</td>
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<td>3101 Instrumental OR 3151 Choral Conduct (1)</td>
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<td>4900 Recital Attendance (0)</td>
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<td>Choral or Instrumental Ensemble (1)</td>
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<td>4402 Band Methods OR 4452 Vocal Methods (2)</td>
<td>4602 Instrumental Lit. OR 4502 Choral List. (2)</td>
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<tr>
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<td>4900 Recital Attendance (0)</td>
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<tr>
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* First time entering Freshmen need to take 1001 Freshman Orientation
BACHELOR OF MUSIC
MUSIC THERAPY - INSTRUMENTAL EMPHASIS (Code No. 147)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS .................................. Min. 40
REQUIRED CORE COURSES ................................................. 31-35
Written Communication .................................................. 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ....................................................................... 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course
U. S. History ........................................................................ 3
Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877
American Government ....................................................... 3
POLSC 1103 American Government & Politics
Science ............................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
Life Science ........................................................................ 4
BIOL 1004 Biological Concepts w/ Lab
Physical Science ................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/ Lab
GEOL 1934 Physical Geology w/ Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/ Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course
Humanities ........................................................................... 6
HUM 1103 Introduction to Humanities
MUSIC 1103 Music and Culture
Human, Cultural, & Social Diversity ....................................... 3
PSYCH 1003 General Psychology
Computer Proficiency ......................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least 2 different categories) .......... to total 40

Music Therapy Major (Instrumental Emphasis)

Music Therapy ..................................................................... 25 - 27
MUSIC 1172 Introduction to Music Therapy
MUSIC 1223 Music Ther I: MT in Rehab
MUSIC 2081 Field Studies I
MUSIC 2181 Field Studies II
MUSIC 2222 Recreational Music
MUSIC 3081 Field Studies III
MUSIC 3113 Music Ther I/MT in Mental Health/Illness
MUSIC 3123 Music Therapy IV: Psychology of Music
MUSIC 3181 MT Competencies and Professional Ethics
MUSIC 4020 Senior Research Project
OR MUSIC 4950 Senior Recital
MUSIC 4182 Research and Statistics
MUSIC 4213 Music Ther III: MT in Special Education
MUSIC 4242-4 Music Therapy V (Credit varies)
MUSIC 4311 Field Studies IV

Psychology and Biological Sciences ..................................... 12
BIOL 3704 Human Anatomy
OR BIOL 3904 Human Physiology
PSYCH 3213 Developmental Psychology
SPCED 3132 Exceptional Children
PSYCH 3323 Abnormal Psychology

Music .................................................................................. 56
MUSIC 1213 Music Theory I
MUSIC 1221 Aural Skills I
MUSIC 1313 Music Theory II
MUSIC 1321 Aural Skills II
MUSIC 1911 Beginning Guitar Class
MUSIC 2981 Principles of Conducting
MUSIC 3253 Music Theory III
MUSIC 3261 Aural Skills III
MUSIC 3303 Music Theory IV
MUSIC 3311 Aural Skills IV
MUSIC 3353 History of Music I
MUSIC 3403 History of Music II
MUSIC 4232 Arranging
MUSIC 4261 Intro to Music Technology
MUSIC 3171 Introduction to Movement
Elective in Advanced Elem. Methods, 2 hours (Choose from MUSIC 4122 Intro. To Orff or MUSIC 4302 Elem. & Sec. General Music)
MUSIC 4900 Recital Attendance (enroll each semester)
Applied Music (one orchestral instrument and/or piano) Principal Area, 6 hours
Principal Area Proficiency Exams I and II
Secondary Area, 2 hours
MUSIC 1611 Percussion Class
Guitar (In addition to 1911), 1 hour
MT Guitar Proficiency Exam
Piano, 5 hours:
MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II
MUSIC 2831 Class Piano III
MUSIC 2841 Class Piano IV
Applied Piano Lesson (1 credit)
MUSIC 4011 Keyboard Improvisation for Music Therapists
Music Therapy Piano Proficiency Exams I & II
Voice, 2 hours (2 semesters) & Vocal Proficiency Exam I Vocal Elective, 2 hours (1 must be a choral ensemble)
Instrumental Ensemble(s), 8 hours (enroll each semester)
(At least 1 hour of Music 4041 Percussion Ens. required)

TOTAL HOURS ...................................................................... 133

(Continued on next page)
REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .............................................. 133
Minimum credit hours in the liberal arts & sciences ................... 40
Minimum credit hours in upper-division
(3000/4000 courses) .............................................................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .............................. 8
Minimum credit hours at SWOSU (15 of the last 30) .......... 30
Minimum Grade Point Average in all coursework ............... 2.00
Minimum Grade Point Average in major .......................... 2.00

Students may pursue either Bachelor of Music in Music Therapy or Equivalency/Registration in Music Therapy at SWOSU. Both will satisfy the required eligibility for taking the national Certification Examination for Music Therapists for the credential of Music Therapist-Board Certified (MT-BC).
BACHELOR OF MUSIC
MUSIC THERAPY - VOCAL/KEYBOARD (Code No. 148)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ............................... Min. 40
REQUIRED CORE COURSES ............................................. 31-35

Written Communication ............................................. 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics ................................................................. 3
  Select one course.
    MATH 1143 Mathematical Concepts
    MATH 1153 Mathematical Applications
    MATH 1513 College Algebra
    or a higher numbered math course

U. S. History ............................................................. 3
  Select one course.
    HIST 1043 U.S. History to 1877
    HIST 1053 U.S. History since 1877

American Government ............................................... 3
  POLSC 1103 American Government & Politics

Science ........................................................................... 7-8
  Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ................................................................... 4
  BIOL 1004 Biological Concepts w/Lab

Physical Science ............................................................ 3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take w/lab)
  SCI 1501 Concepts of Phy Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
  or a higher numbered chemistry or physics course

Humanities ...................................................................... 6
  HUM 1103 Introduction to Humanities
  MUSIC 1103 Music and Culture

Human, Cultural, & Social Diversity .......................... 3
  PSYCH 1003 General Psychology

Computer Proficiency ................................................. 0-3
  Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least 2 different categories) .......... to total 40

Music Therapy Major (Vocal/Keyboard Emphasis)

Music Therapy .................................................................. 25 - 27
  MUSIC 1172 Introduction to Music Therapy
  MUSIC 1223 Music Therapy I: MT in Rehabilitation
  MUSIC 2081 Field Studies I
  MUSIC 2181 Field Studies II
  MUSIC 2222 Recreational Music
  MUSIC 3081 Field Studies III
  MUSIC 3113 Mus Ther II: MT in Mental Hlth/Illness
  MUSIC 3123 Music Therapy IV: Psychology of Music
  MUSIC 3181 MT Competencies and Prof Ethics
  MUSIC 4020 Senior Research Project
  OR MUSIC 4950 Senior Recital
  MUSIC 4182 Research and Statistics
  MUSIC 4213 Music Ther III: MT in Special Ed
  MUSIC 4242-4 Music Therapy V (Credit varies)
  MUSIC 4311 Field Studies IV

Psychology and Biological Sciences ........................... 12
  BIOL 3704/3904 Human Anatomy or Physiology
  PSYCH 3213 Developmental Psychology
  SPCED 3132 Exceptional Children
  PSYCH 3323 Abnormal Psychology

Music .............................................................................. 56
  MUSIC 1213 Music Theory I
  MUSIC 1221 Aural Skills I
  MUSIC 1313 Music Theory II
  MUSIC 1321 Aural Skills II
  MUSIC 1911 Beginning Guitar Class
  MUSIC 2981 Principles of Conducting
  MUSIC 3171 Introduction to Movement
  MUSIC 3253 Music Theory III
  MUSIC 3261 Aural Skills III
  MUSIC 3303 Music Theory IV
  MUSIC 3311 Aural Skills IV
  MUSIC 3353 History of Music I
  MUSIC 3403 History of Music II
  MUSIC 4232 Arranging
  MUSIC 4261 Intro to Music Technology
  Elective in Advanced Elem. Methods, 2 hours
  (Choose from MUSIC 4122 Intro. To Orff or MUSIC 4302 Elem. & Sec. General Music)
  MUSIC 4900 Recital Attendance (each semester)
  Applied Music (voice or piano) 9 hours
    Principal Area, 8 hours (enroll each semester)
    Principal Area Proficiency Exams I and II
    MUSIC 2861 Accompanying (Piano Primary) or MUSIC 2951 Modern Language Diction
  Applied Music (voice, orchestral instrument, or piano)
    Secondary Area, 5 hours (If voice is the principal area, piano must be the secondary area. If piano is the principal area, voice or an orchestral instrument may be the secondary area. Voice Proficiency Exam I is required.)
    Piano (if piano is secondary area)
      MUSIC 2811 Class Piano I
      MUSIC 2821 Class Piano II
      MUSIC 2831 Class Piano III
      MUSIC 2841 Class Piano IV
    Applied Piano (if piano is secondary area) 1 hour
      MUSIC 4011 Keyboard Improv. for Music Therapists
      Music Therapy Piano Proficiency Exams I & II
      MUSIC 1611 Percussion Class
      Guitar (In addition to 1911), 1 hr
    Music Therapy Guitar Proficiency Exam
    Choral/Major Ensembles, 8 hours (enroll each semester)
    MUSIC 4041 Percussion Ensemble

TOTAL HOURS ..................................................................... 133

(Continued on next page)
REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ................................ 133
Minimum credit hours in the liberal arts & sciences ............. 40
Minimum credit hours in upper-division
(3000/4000 courses) ............................................... 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU ...................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ........... 30
Minimum Grade Point Average in all coursework............... 2.00
Minimum Grade Point Average in major ........................ 2.00

Students may pursue either Bachelor of Music in Music Therapy or Equivalency/Registration in Music Therapy at SWOSU. Both will satisfy the required eligibility for taking the national Certification Examination for Music Therapists for the credential of Music Therapist-Board Certified (MT-BC).
**BACHELOR OF MUSIC in MUSIC THERAPY (INSTRUMENTAL) (Code 147)**

**Suggested Course Sequence**

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</tr>
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<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1213 English Composition II (3)</td>
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<td>4900 Recital Attendance (0)</td>
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| SECOND YEAR | | | |
|-----------|----------------|-----------------|
| **FIRST SEMESTER** | **SECOND SEMESTER** |
| 2101 Voice Class (1) | 2841 Class Piano IV (1) |
| 2831 Class Piano III (1) | 3101 Instrumental Conducting (1) |
| 2981 Principles of Conducting (1) | 3303 Music Theory IV (3) |
| 3171 Intro to Movement (1) | 3311 Aural Skills IV (1) |
| 3253 Music Theory III (3) | 4900 Recital Attendance (0) |
| 3261 Aural Skills III (1) | Advanced Elementary Methods Cl (2) |
| 4900 Recital Attendance (0) | Applied Principle Instrument (1) |
| Applied Principle Instrument (1) | Applied Voice (1) |
| Courses From List Below (4) | Courses From List Below (4) |
| General Education Courses (3) | General Education Courses (2) |
| Instrumental Ensemble (1) | Instrumental Ensemble (1) |
| **Total (17)** | **Total (17)** |

| THIRD YEAR | | | |
|-----------|----------------|-----------------|
| **FIRST SEMESTER** | **SECOND SEMESTER** |
| 1611 Percussion Class (1) | 3403 History of Music II (3) |
| 1911 Beginning Guitar (1) | 4011 Keyboard Improvisation (1) |
| 3353 History of Music I (3) | 4232 Arranging (2) |
| 4900 Recital Attendance (0) | 4900 Recital Attendance (0) |
| Applied Principle Instrument (1) | Applied Guitar (1) |
| Choral Ensemble (1) | Applied Principle Instrument (1) |
| Courses From List Below (4) | Applied Voice (1) |
| General Education Courses (3) | Courses From List Below (4) |
| Instrumental Ensemble (1) | General Education Courses (3) |
| Voice Elective (1) | Instrumental Ensemble (1) |
| **Total (16)** | **Total (17)** |

*Continued on next page*
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All courses listed under Music Therapy and under Psychology and Biological Sciences may be taken at any time for a total of 35 hours.

*First time entering Freshmen need to take 1001 Freshman Orientation.
BACHELOR OF MUSIC in MUSIC THERAPY (VOCAL/KEYBOARD) (Code 148)

Suggested Course Sequence

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<tr>
<td>1001 Freshman Orientation* (1)</td>
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<td>1321 Aural Skills II (1)</td>
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<tr>
<td>2831 Class Piano III (1)</td>
<td>1611 Percussion Class (1)</td>
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<tr>
<td>2981 Principles of Conducting (1)</td>
<td>2841 Class Piano IV (1)</td>
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<td>3171 Intro to Movement (1)</td>
<td>3101 Instrumental Conducting (1)</td>
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<td>3253 Music Theory III (3)</td>
<td>3303 Music Theory IV (3)</td>
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<td>Advanced Elementary Methods Cl (2)</td>
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<tr>
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<tr>
<td>1911 Beginning Guitar (1)</td>
<td>3403 History of Music II (3)</td>
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<td>3171 Intro to Movement (1)</td>
<td>4011 Keyboard Improvisation (1)</td>
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<td>Percussion Ensemble (1)</td>
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<td>Secondary Applied (1)</td>
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All courses listed under Music Therapy and under Psychology and Biological Sciences may be taken at any time for a total of 35 hours.

*First time entering Freshmen need to take 1001 Freshman Orientation.
DEPARTMENT OF SOCIAL SCIENCES  
COLLEGE OF ARTS AND SCIENCES

FACULTY

John Hayden, Chair  
Science Building, Room 201  
Phone: (580) 774-7072  
Phone: (580) 774-3292  
E-mail: john.hayden@swosu.edu  
http://www.swosu.edu/socsci/

Dan Brown................................SCI 101 B...........dan.brown@swosu.edu ..........................................................(580) 774-3151  
Ted Brown................................SCI 101 G...........ted.brown@swosu.edu .............................................................(580) 774-3754  
Becky Bruce................................SCI 101 C...........becky.bruce@swosu.edu ..........................................................(580) 774-7134  
Jieun Chang...............................SCI 114 A...........jieun.chang@swosu.edu .......................................................(580) 774-3153  
Jerry Dunn................................SCI 110 D...........jerry.dunn@swosu.edu .............................................................(580) 774-3048  
Laura Endicott...........................SCI 101 D...........laura.endicott@swosu.edu ..........................................................(580) 774-7097  
Fred Gates..................................SCI 101 G...........fred.gates@swosu.edu .............................................................(580) 774-3278  
David Hertzel.............................SCI 101 F...........david.hertzel@swosu.edu ..........................................................(580) 774-3152  
Sunu Kodumthara.........................SCI 101 E...........sunu.kodumthara@swosu.edu ...................................................(580) 774-3236  
Howard Kurtz..............................SCI 114 C...........howard.kurtz@swosu.edu ..........................................................(580) 774-3157

DEPARTMENTAL GOALS

The Department of Social Sciences seeks to:

1. Enable all students to live and serve intelligently in a democratic society through study of national and international political, economic, social, and cultural systems and associated problems within courses offered in the general education program.
2. Develop students’ capabilities in sound scholarship, science, and research methods so that graduate work may be pursued successfully.
3. Prepare well-qualified history teachers for the public schools in Oklahoma.
4. Provide a firm foundation for successful careers in the diverse, applied settings of criminal justice, government and politics, law, and business.

PROGRAMS OF STUDY

Majors:  
B.A. Criminal Justice  
B.A. History  
B.A. Political Science  
B.A.Ed. History Education  
(Listed in Dept. of Education)

Minors:  
American Indian Studies  
Criminal Justice  
Economics  
History  
Political Science  
Pre-Law  
International Studies

Master:  
M.Ed. Social Sciences  
(See Graduate Catalog for more info.)

Pre-Professional:  
Law

ADVISORS AND PROGRAMS

Criminal Justice  
H. Kurtz  
Political Science  
D. Brown  
T. Brown

History  
B. Bruce  
L. Endicott  
F. Gates  
J. Hayden  
D. Hertzel  
S. Kodumthara

History Education  
F. Gates

MINOR PROGRAMS

American Indian Studies  
Pre-Law  
S. Kodumthara  
D. Brown

Economics  
J. Chang  
J. Dunn

International Studies  
D. Brown
GENERAL INFORMATION
In support of its goals, the Department of Social Sciences provides for substantial contributions to the general education program at SWOSU as well as sponsoring selected major and minor programs. Courses and programs include Criminal Justice, Economics, Geography, Gerontology, History, History Education, Political Science, Pre-Law, and Sociology. Our courses are designed to examine the ways in which human beings have related to each other and to their environment over time and to do so from a variety of academic perspectives. Our programs are aimed at giving students a broad understanding of the human social condition and providing them with an education that will serve as a firm foundation for many careers in business, social and justice services, government service, or education. Criminal Justice, History, History Education, Political Science and Pre-Law provide solid foundations for a wide range of professional positions.

Practical field experience is highly valued in our degree programs. We have internships available for Criminal Justice and Political Science students. Student teacher placements are required of History Education Students. These placements give students a chance to explore the real world of their proposed careers and the opportunity to develop their skills in actual work settings from schools, to prisons, to social and justice service agencies.

Most faculty members have doctoral degrees and are actively involved in professional research, assuring students that their instructors are on the cutting edge of their fields and that their classes are in tune with the latest developments. Our faculty are not only scholars; they pride themselves in being fine teachers. Our students report that many of our courses are the best and most enjoyable that they have ever taken. Faculty members are notable for taking a personal interest in their students and developing relationships that go beyond the classroom to develop into life-long friendships and professional ties.

Beyond our formal program of education, our students enjoy learning and socializing in student-led clubs devoted to criminal justice, history, and political science. We also support a chapter of Phi Alpha Theta, the international History Honor Society, and participate in the Model United Nations. Criminal justice and political science sponsor special speaker programs where outside specialists with national and international reputations discuss topics of relevance with our students.

For more information, visit our website http://www.swosu.edu/socsci/

PROGRAM OBJECTIVES
Bachelor of Arts – Criminal Justice
1. To prepare graduates for future educational pursuits including graduate school.
2. To prepare students for employment in the criminal justice field.

Bachelor of Arts - History
1. To provide students with skills necessary for lifelong learning.
2. To allow an opportunity for students to develop reading comprehension, research and writing skills, and an analytical approach to learning.
3. To challenge students to question, to research, and to assess factual information and to express it in original, interpretive essays.
4. To prepare students for graduate study in history.

Bachelor of Arts in Education – History Education
1. Students will be able to explain through a variety of delivery methods significant persons, events, institutions, ideas, and trends in the fields of American, World, and Oklahoma history.
2. Students will be able to explain significant historiographical debates in the fields of American, World, and Oklahoma history.
3. Students will demonstrate an understanding of historical methods including the proper use and interpretation of sources.
4. Students will be able to explain through a variety of delivery methods material in the fields of American, World, and Oklahoma history in accordance with the 15 Oklahoma General Competencies for Teacher Licensure and Certification.
5. Students will be able to explain through a variety of delivery methods material in American and World history in accordance with the recommended standards for history and the recommended standards for historical thinking.

Bachelor of Arts – Political Science
1. To provide students with the background they need to serve as intelligent members of a democratic society. This background includes an understanding of both international and domestic processes and policies, as well as an understanding of the principles of democratic governance.
2. To foster the development of students’ capabilities in sound scholarship and research methodology in order to facilitate graduate work.
BACHELOR OF ARTS
CRIMINAL JUSTICE (Code No. 107)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ................................................. Min. 40
REQUIRED CORE COURSES ...................................................................... 31-35

Written Communication ........................................................................... 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II

Mathematics .............................................................................................. 3
Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
  or a higher numbered math course

U. S. History .............................................................................................. 3
Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government ............................................................................. 3
  POLSC 1103 American Government & Politics

Science ........................................................................................................ 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .............................................................................................. 3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology

Physical Science ......................................................................................... 3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Concepts of Phy Science (may also take w/lab)
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
  or a higher numbered chemistry or physics course

Humanities .................................................................................................. 6
  HUM 1103 Introduction to Humanities
  OR
  HIST 1033 World History

AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ......................................................... 4
  SPAN 1054 Elementary Spanish I (or higher number)

Computer Proficiency ............................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ........... to total 40
  SOCIO 1003 Intro to Sociology

Criminal Justice Major
(SOCIO 1003 Intro to Sociology is prerequisite for all other sociology courses. CRMJS 1113 is prerequisite for all other criminal justice courses.)

CRIMINAL JUSTICE REQUIRED COURSES: .................................... 30
  CRMJS 1113 Intro to Criminal Justice
  CRMJS 3163 Sociology of Deviant & Crim Behavior
  CRMJS 3243 Comp Criminal Justice System
  CRMJS 3553 The Criminal Mind
  CRMJS 3523 Criminology
  CRMJS 4103 Juvenile Justice
  CRMJS 4153 U.S. Corrections
  CRMJS 4333 Victimology
  SOCS 3853 Statistics for Social Science
  SOCS 3863 Fundamentals of Research

ELECTIVES: ............................................................................................. 6

Electives to bring total to 120 ................................................................. 20-26

TOTAL HOURS ......................................................................................... 120

For the minor program, refer to the Criminal Justice minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ...................................................... 120
Minimum credit hours in the liberal arts & sciences ................................ 80
Minimum credit hours in upper-division ............................................... 40
Minimum credit hours (3000/4000 courses) ........................................ 8
Minimum credit hours at SWOSU (15 of the last 30) .......................... 30
Minimum Grade Point Average in all coursework .............................. 2.00
Minimum Grade Point Average in major ........................................... 2.00
# Criminal Justice (Code 107)

## Suggested Course Sequence

### First Year

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<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<td>1001 Freshman Orientation* (1)</td>
<td>1003 Intro to Sociology (3)</td>
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<tr>
<td>1113 English Comp I (3)</td>
<td>1213 English Comp II (3)</td>
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### Second Year

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### Third Year

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### Fourth Year

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*First time entering Freshmen need to take 1001 Freshman Orientation*
BACHELOR OF ARTS
HISTORY (Code No. 120)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ......................................................... 31-35

Written Communication .......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics .................................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History .................................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ................................................................. 3

POLSC 1103 American Government & Politics

Science .......................................................................................... 7-8
Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.

Life Science .................................................................................. 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ............................................................................ 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ...................................................................................... 6

HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .............................................. 3

ECONO 2263 Intro to Macroeconomics

Computer Proficiency ................................................................. 0-3
Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam,
or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .............. to total 40

History Major

Required Courses ........................................................................... 45
HIST 1043 U.S. History to 1877
OR HIST 1053 U.S. History since 1877 (one not taken as GE)
HIST 2603 Writing History
HIST 4093 Historical Research & Writing
GEOG 1103 World Cultural Geography

Upper Level in History:
American (15 hours)
European and/or World (12 hours)
Additional upper-level history (6 hours)

Minor ......................................................................................... 18-22

Electives ....................................................................................... 13-17

TOTAL HOURS ........................................................................... 120

For the minor program, refer to the History minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ____________________________ 120
Minimum credit hours in the liberal arts & sciences ______________ 80
Minimum credit hours in upper-division (3000/4000 courses) ______________ 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU ________________________________ 8
Minimum credit hours at SWOSU (15 of the last 30) ______________ 30
Minimum Grade Point Average in all coursework _________________ 2.00
Minimum Grade Point Average in major ________________________ 2.00
**HISTORY (Code 120)**  
*Suggested Course Sequence*

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<tr>
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<td>1213 English Comp II (3)</td>
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<td>SECOND SEMESTER</td>
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<tr>
<td>2263 Intro to Macroeconomics (3)</td>
<td>1103 World Cultural Geography (3)</td>
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<td>2603 Writing History (3)</td>
<td>American/World History (9)</td>
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<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>SECOND SEMESTER</td>
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<tr>
<td>American/World History (9)</td>
<td>4093 Historical Research &amp; Writing (3)</td>
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<tr>
<td>American/World History (3)</td>
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<td>Total (13)</td>
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*First time entering Freshmen need to take 1001 Freshman Orientation*
BACHELOR OF ARTS
POLITICAL SCIENCE (Code No. 156)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ......................................................... 31-35

Written Communication ................................................................. 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics .................................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History .................................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ................................................................... 3

POLSC 1103 American Government & Politics

Science ........................................................................................... 7-8
Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.

Life Science .................................................................................. 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ............................................................................. 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities .................................................................................... 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ............................................. 3-4
Select one course.
ASL 2163 American Sign Language
CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)
COMM 1313 Introduction to Public Speaking
ECONO 2263 Intro to Macroeconomics
ECONO 2363 Intro to Microeconomics
GEOG 1103 World Cultural Geography
ITAL 1004 Elementary Italian I
KINES 1133 Wellness Concepts & Exercise Applications
LATIN 1054 Elementary Latin I (or higher number)

PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
SPAN 1054 Elementary Spanish I (or higher number)
TECH 1223 Technology and Society

Computer Proficiency .................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ............ total 40

Political Science Major

Required Courses .......................................................................... 36
POLSC 2303 Comparative Politics
POLSC 2803 The Judicial Process
POLSC 3003 Federal Constitution
POLSC 3033 Political Parties
POLSC 3113 Political Theory
POLSC 3323 Legislative-Executive Relations
SOCSC 3853 Statistics for Social Sciences
SOCSC 3863 Fundamentals of Research

CONCENTRATIONS ...................................................................... 12
Students will choose two concentrations and successfully complete at least 2 of the 3 courses listed in each.

Public Law Concentration:
POLSC 2623 Criminal Law & Procedures
POLSC 4253 International Law
POLSC 4613 Civil Rights & Liberties

International Relations Concentration:
POLSC 3163 Print of International Relations
POLSC 3353 Model United Nations
POLSC 4303 International Organizations

Urban & Minority Politics Concentration:
POLSC 3343 Women & Politics
POLSC 4233 Urban Politics & Election Sys.

Public Administration & Public Policy Concentration:
POLSC 3363 Public Admin. Theory & Pract
POLSC 4403 Public Policy Formation
POLSC 4933 Government Internship

Electives (including minor) to bring total to .................. 120

For the minor program, refer to the Political Science minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ........................................ 120
Minimum credit hours in the liberal arts & sciences ............ 80
Minimum credit hours in upper-division (3000/4000 courses) .... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................ 30
Minimum Grade Point Average in all coursework .................. 2.00
Minimum Grade Point Average in major ................................. 2.00
# POLITICAL SCIENCE (Code 156)

## Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>1001 Freshmen Orientation* (1)</td>
<td>1213 English Comp II (3)</td>
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<tr>
<td>1113 English Comp I (3)</td>
<td>2303 Comparative Politics (3)</td>
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<tr>
<td>General Education Courses (10)</td>
<td>General Education Courses (9)</td>
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<th>SECOND YEAR</th>
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<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>Electives (4)</td>
<td>2803 Judicial Process (3)</td>
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<tr>
<td>General Education Courses (6)</td>
<td>Elective (3)</td>
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<td>Political Science Courses (6)</td>
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<tr>
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<th>THIRD YEAR</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>3003 Federal Constitution (3)</td>
<td>3323 Legislative-Executive Relation (3)</td>
</tr>
<tr>
<td>3853 Statistics for the Social Sciences (3)</td>
<td>3864 Fundamentals of Research (3)</td>
</tr>
<tr>
<td>General Education Courses (6)</td>
<td>Elective (3)</td>
</tr>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>3113 Political Theory (3)</td>
<td>3033 Political Parties (3)</td>
</tr>
<tr>
<td>Electives (6)</td>
<td>Electives (9)</td>
</tr>
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<td>Minor (3)</td>
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<td>Total (15)</td>
<td>Total (15)</td>
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*First time entering Freshmen need to take 1001 Freshman Orientation
COLLEGE OF PHARMACY

David A. Ralph, Dean

Degree Offered:

Doctor of Pharmacy (Pharm.D.)
FACULTY

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COLLEGE OF PHARMACY STUDENT HANDBOOK

HISTORY
The College of Pharmacy at Southwestern Oklahoma State University (SWOSU) was founded in 1939 and graduated its first class in 1941. The College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education and is a member of the American Association of Colleges of Pharmacy. Many of the approximately 5000 alumni of the College of Pharmacy at SWOSU are leaders in their communities and very active in professional pharmacy organizations.

VISION, MISSION, AND VALUES

Vision
To be recognized as a dynamic educational environment in which students develop the personal, professional, intellectual, and leadership skills needed to advance the profession of pharmacy.

Mission
The College of Pharmacy educates and empowers pharmacy graduates who, as part of a healthcare team, aspire to a lifelong commitment of personal and professional development and exceptional patient-centered care. The College of Pharmacy creates, disseminates, and applies knowledge and innovation to advance the health and wellness of culturally diverse populations.

Values
The College of Pharmacy embraces these values as foundational pillars:
- Fostering professionalism and integrity by cultivating a sense of personal and institutional responsibility, self-awareness, and accountability.
- Providing mentorship of students and colleagues to promote their professional and personal growth.
- Exhibiting excellence and innovation in teaching, service, and research/scholarly activity.
- Expressing compassion for others and engaging in community service.
- Sustaining a collegial environment that promotes collaboration and mutual respect between administration, faculty, staff, preceptors, students, and alumni.
- Promoting diversity, cultural awareness, and the preservation of human dignity.

CAREER OPPORTUNITIES
The pharmacist is a specialist in the science of drugs and is the most accessible member of the health care team. The pharmacist is often the first health professional a consumer will talk to about their drug treatment. Today's pharmacist not only is responsible for the dispensing of prescriptions but also provides information and treatment. The pharmacist is likely to be a part of the health care team.

Pharmacy demands that one be dependable and show good judgment. The responsibility the pharmacist has for the health and well being of people emphasizes the need for an accurate decision making and high ethical standards. Above all, since pharmacy involves working with both patients and other health care professionals, a pharmacist must relate well to others.

The majority of pharmacists practice in a community setting. Community pharmacies range in size from the very small prescription shop to the large full-line drug store and can be owned by individuals or large corporations. Community pharmacy requires extensive use of business and management skills. In addition to being responsible for the dispensing of both prescription and non-prescription drugs, the community pharmacist also has the opportunity to provide advice and information on health matters to the public and provide consultation service to health care facilities as well as other health care providers.

As a member of the health care team, the health-system and/or hospital pharmacist is directly involved with patient care. The hospital pharmacist works with doctors and nurses to design a program of drug treatment most appropriate to each patient. In addition, the pharmacist is responsible for the drug distribution system of the hospital. Specialized areas, such as nuclear pharmacy, drug and poison information and intravenous therapy, have become a part of hospital pharmacy practice. The hospital pharmacist may also provide training to other staff members in the proper use of medications.

In addition to these two major areas, pharmacists work in industry, education, and all levels of government. Many serve as consultants to nursing homes, hospitals, and home health care agencies. Individuals with pharmacy degrees may pursue other health careers by entering medical, dental, or other professional educational programs. With their health and science education, pharmacists may specialize in the areas of technical writing, science reporting, and editing of professional magazines or journals. Pharmacists with legal training may become experts in pharmaceutical law.

With these multiple opportunities in an evolving health care environment, Pharmacy is a very rewarding profession.

LICENSURE
Legal requirements vary slightly from state to state, and students should familiarize themselves with the laws and regulations of the states in which they plan to seek licensure. In Oklahoma, a candidate for licensure must: (1) be of good moral character, (2) be no less than 21 years of age, (3) be a graduate of an accredited College of Pharmacy, (4) have experience in pharmacy practice in accordance with the regulations of the State Board of Pharmacy, and (5) have passed an examination as specified by the State Board of Pharmacy.

Additional information may be obtained through the State Board of Pharmacy of the state in which licensure is desired.

PROGRAM OF STUDY AND RESIDENCE
In accordance with the regulations of the Accreditation Council for Pharmacy Education, a minimum of six academic years of college work is required for completion of the curriculum leading to a Doctor of Pharmacy (Pharm.D.) degree. The College of Pharmacy curriculum at SWOSU is commonly referred to as a two-four program: two years of pre-pharmacy study plus four years of study in the professional Pharm.D. program.

The pre-pharmacy course work may be completed at SWOSU or at any accredited college or university offering pre-pharmacy courses, which are reasonably equivalent to those required pre-pharmacy courses at SWOSU.
ADMISSION TO THE UNIVERSITY

Before any student may be considered for admission to the College of Pharmacy, admission to SWOSU is required. Applications for admission to SWOSU, with all required forms, are submitted to the Office of the Registrar. However, all students considering a career in pharmacy are urged to visit the College of Pharmacy and to avail themselves of the counseling services of the Pharmacy Admissions Counselor.

ADMISSION TO PRE-PHARMACY STUDY

The pre-pharmacy program at SWOSU is open to all high school graduates and college transfer students who have not completed the specific pre-pharmacy curriculum and who qualify for and obtain admission to SWOSU. Regulations concerning admission to SWOSU are listed in the General Catalog of the institution or may be obtained from the Office of the Registrar.

PRE-PROFESSIONAL CURRICULUM

The pre-pharmacy curriculum consists of 67 hours of prescribed course work. A minimum of 60 hours of this curriculum must be successfully completed prior to admission to the professional program (see section on “Admission to the Professional Doctor of Pharmacy Program”). Organic Chemistry II and Organic Chemistry II Lab and Microbiology must have been completed within seven years of the semester for which an applicant is seeking admission. A “conditionally admitted” pre-professional student who withdraws from a required course in the semester prior to being admitted to the Professional Program MUST complete the course(s) at SWOSU to be considered for admission. All pre-professional requirements not completed prior to admission to the professional Pharm.D. program must be completed within one calendar year of the date of admission.

ADMISSION TO THE PROFESSIONAL DOCTOR OF PHARMACY PROGRAM

Students may apply for admission into the professional Doctor of Pharmacy program for the Fall or Spring semesters. Applications for admission into the professional program for Fall semesters must be submitted by the previous February 1st. Applications for admission into the professional program for the Spring semester must be submitted by the previous September 1st. Selection for admission into the professional program is competitive. The minimum standards to be considered for admission are as follows:

1. Satisfactory completion of at least 60 semester hours of the pre-pharmacy curriculum;
2. Completion of all pre-pharmacy biology, chemistry, mathematics, and physics courses with a grade of “C” or better;
3. A minimum cumulative grade-point average of 2.50;
4. Submission of valid ACT or SAT scores.
5. Submission of Pharmacy College Admission Test (PCAT) scores from a PCAT test taken within 3 years of the date of application.

Applications must be submitted on standardized forms supplied by the Pharmacy Admissions Counselor. Navigational steps to obtain Application Materials:

1. www.swosu.edu
2. click on Academics
3. select College of Pharmacy
4. select the Prospective Students tab on side menu
5. select Application Survey

Incomplete, late, or improperly prepared applications will not be processed. All admissions are subject to any conditions specified in the admission letter and other correspondence from the College of Pharmacy.

Background checks are required and will be conducted on each student prior to admission to the College of Pharmacy and at specific points throughout the student’s academic progression in the professional pharmacy curriculum as determined by COP regulations, practice requirements, and State laws and/or regulations (please see ‘Other College of Pharmacy Regulations’ for the full policy).

APPLICANT SELECTION

The faculty and administration of the College of Pharmacy establish the operating policies and methods of selection for the Admissions Committee, and the guidelines are followed carefully and diligently. Members of the Admissions Committee are appointed or reappointed annually.

The Admissions Committee must rely heavily on objective data, particularly science and mathematics grade average, overall grade average, ACT (American College Test) or SAT (Scholastic Aptitude Test) and PCAT (Pharmacy College Admission Test) scores. A preliminary selection of applicants will be made based on an initial evaluation of these criteria. Applicants selected by this initial process will be required to appear for a personal interview before a committee composed of faculty members and pharmacy students. The interview process provides an opportunity to assess important issues such as motivation, character, personal objectives, and communication skills. An appraisal from all aspects of the interview is included in the applicant's file and is weighed, along with other factors, such as consistence of academic performance, by the Admissions Committee in making its final recommendation regarding admission to the Dean of the College of Pharmacy.

Selection for admission to the professional Pharm.D. program in the College of Pharmacy is competitive. Preference is given to qualified applicants who do all of their pre-pharmacy coursework at SWOSU. Consideration is given to qualified United States citizens and permanent residents from Oklahoma and the states that border Oklahoma.

ADMISSION WITH ADVANCED STANDING FROM OTHER ACCREDITED COLLEGES OF PHARMACY

Applicants may be considered by the Admissions Committee for admission with advanced standing if they have completed work beyond the pre-pharmacy level in another institution accredited by the Accreditation Council for Pharmacy Education. The applicant must not be on academic or disciplinary probation or suspension, and such applicants must have passed each course accepted for transfer credit with a grade at least “C” or better. The completed work must be equivalent in content to that offered at SWOSU. In addition to official transcripts, applicants must submit their PCAT scores and a letter of good standing from the Dean of the College of Pharmacy last attended. A minimum of two semesters residency with at least thirty semester hours of credit is required for graduation of all students transferring to SWOSU from other Colleges of pharmacy, regardless of the amount of work previously completed.

ADVANCED STANDING EXAMINATIONS AND CLEP

Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are given for some subjects included in the pre-pharmacy curriculum. Subject to certain conditions, a student may elect to take Advanced Standing or CLEP Examinations for the purpose of earning credit for courses.
Information relative to the examinations may be obtained from the Pharmacy Admissions Counselor, and eligible students are encouraged to participate in the examination programs.

**ADVISEMENT**

Each student enrolled in pre-pharmacy or the professional pharmacy program is assigned a faculty advisor who can counsel and advise the student. The advisor will assist the student in developing, following, and updating as necessary the personal Degree Plan, and will provide reasonable assistance and guidance in the matter of curriculum selection. However, the student is the individual with final responsibility for correct and appropriate adherence to prerequisite requirements. It is the student who will experience academic delay and loss of both time and course credit through matriculation in courses for which the student has not satisfied prerequisites.

**THE PHARMACY CURRICULUM**

The curriculum of the College of Pharmacy is established by the faculty. Since pharmacy is a dynamic profession, the faculty reserves the right to make substitutions and necessary changes in course requirements without prior notice. Students, who fail to progress normally as the program is prescribed, are suspended, or take a leave of absence, may encounter program delays or additional semester credits due to curricular changes.

**COLLEGE OF PHARMACY REGULATIONS**

**PHARMACY SCHOLARSHIP REQUIREMENTS:**

1. All the following regulations are based on the fact that students in the College of Pharmacy are expected to enroll in a full load of course work, as defined by SWOSU standards.
2. Students must maintain a 2.00 grade-point average or above to remain in the College of Pharmacy. In computing the grade-point average, courses are counted each time they are undertaken, whether passed or failed. Summer term grades affect only the cumulative pharmacy grade-point average.
3. Grade points may not be satisfied through courses which are not requirements for the degree in Pharmacy at SWOSU.
4. The faculty of the College of Pharmacy considers any grade lower than "C" for any required or elective course in the professional program to be an unsatisfactory grade. Consequently, no course credit toward fulfilling the professional requirements for the degree in Pharmacy will be given for any course in which a grade lower than "C" is earned.
5. A student must enroll in a minimum of 12 semester hours in the Spring/Fall semesters, not including pass/fail courses such as the IPPEs.
6. A student who fails a course shall enroll in the course in the next semester in which the course is available. The student may not enroll in any required course in the professional program until the student has successfully completed the failed course.

**PHARMACY PROBATION:**

7. Any student whose grade-point average for any semester drops below 2.00 will be placed on pharmacy probation.
8. Any student who fails to complete 12 semester hours (pass/fail courses are not considered for these 12 hours) in the Fall or Spring semester will be placed on pharmacy probation.
9. Any student whose cumulative pharmacy grade-point average is less than 2.00 will be placed on pharmacy probation.
10. Students on pharmacy probation may not enroll in more than 15 semester hours without written approval of the Dean.
11. Students on pharmacy probation are advised to limit their extracurricular activities. Therefore, students shall not be allowed to work for the College of Pharmacy in any capacity, such as lab assistants, proctors, interviewers, tour guides, nor shall they be allowed to attend any non-mandatory College-sponsored off-campus activities requiring absence from class, or serve on the Dean’s Council.

**REMOVAL FROM PHARMACY PROBATION:**

12. A student will be removed from pharmacy probation if, during the probationary semester, a grade-point average of 2.00 or better is earned while completing a full load of course work as defined by SWOSU standards, and the cumulative pharmacy grade-point average is 2.00 or better.

**CONTINUED PHARMACY PROBATION:**

13. Students who earn a grade-point of 2.00 or better for the probationary semester, but who do not have a cumulative pharmacy grade-point average of 2.00 or better, will be continued on probation. However, a pharmacy student may not continue in a probationary status for more than two (2) consecutive semesters.

**PHARMACY SUSPENSION:**

14. a. Pharmacy suspension is the dismissal of the student from the professional program. Pharmacy suspension is an action taken in the interest of the student when a lack of progress indicates little chance of success in earning a degree in pharmacy. Suspected students are urged to change their field of study to one for which they have greater ability.
   b. A student will be suspended if the student has two consecutive full-time enrollment Fall and Spring semesters of the following:
      (1) less than a 2.00 semester grade-point average;
      (2) completion of less than 12 semester hours;
      (3) or any combination of (1) and (2).
   c. Any student subject to pharmacy probation a second time, whose cumulative pharmacy grade-point is less than 2.00, will be suspended.
   d. A student may not continue in a probationary status for more than two consecutive semesters. Failure to attain a cumulative pharmacy grade-point average of 2.00 or better by the end of this period will be cause for pharmacy suspension.
   e. A student who has a total of four course failures in at least two different courses shall be suspended.
   f. A student who has three failures in a single course shall be suspended.
   g. A student who has two IPPE and/or APPE failures shall be suspended.
   h. Withdrawal from a course by Friday of the seventh full week of classes (i.e., early withdrawal) during the Fall or Spring semester shall not count as an official enrollment in that course and shall not be considered the equivalent of a course failure for purposes of 14.e., 14.f., and 14.g., above. Students shall be limited to one early withdrawal without penalty per course.
Thereafter, any other early withdrawals from that course shall count as an official enrollment and shall be considered the equivalent of a course failure for purposes of 14.e., 14.f., and 14.g., above.

i. Withdrawal from a course after Friday of the seventh full week of classes during the Fall or Spring semester shall count as an official enrollment in that course and shall be considered the equivalent of a course failure for purposes of 14.e., 14.f., and 14.g., above.

j. Withdrawal from all courses at any time during a semester due to an approved leave of absence shall not count as an official enrollment in those courses and shall not be considered the equivalent of a failure in those courses for purposes of 14.e., 14.f., and 14.g., above.

k. A student may be suspended for a violation of the College of Pharmacy Professionalism Policy.

**ACADEMIC PROGRESSION AND EARLY INTERVENTION:**

15. a. For each professional pharmacy course, the instructor is expected to define thresholds of academic performance that serve as early predictors for potential course failure and non-progression in the curriculum.

b. Upon identification of an at-risk student, a meeting will be arranged with the instructor, student, and Associate Dean to formulate a plan of action to increase the chance of academic success and progression. The plan of action may contain one or more of the following options for early intervention:

1. Recommendations for improving study skills and time management, including utilization of Continuing Professional Development (CPD) personal assessment tools and instruments.

2. At the option of the instructor, mandatory attendance at a review session(s) focusing on key course content that is critical for successful course completion and progression in subsequent, related courses.

3. Participation in tutoring sessions facilitated by senior students who have a strong academic record.

4. Identification of non-academic causes for poor classroom performance and referral to appropriate counseling and related services.

c. After a plan of action has been formulated, the student will be required to attend regular follow-up sessions with the instructor and/or Associate Dean to monitor progress.

**READMISSION AFTER PHARMACY SUSPENSION:**

16. A student on pharmacy suspension may apply for readmission after a pharmacy suspension of one calendar year, but the application will ordinarily be denied, unless convincing evidence is presented to indicate that the student's chances of success have materially improved during the year of suspension. Students readmitted are admitted on continued pharmacy probation and are subject to policies associated with pharmacy probation. This probationary status is considered a continuation of the probationary period(s) prior to pharmacy suspension and is subject to the same policies. The Admissions Committee will prescribe the academic and curricular requirements the student must follow upon readmission.

**OTHER COLLEGE OF PHARMACY REGULATIONS:**

17. A student must have attained a cumulative pharmacy grade-point average of 2.00 or above and completed all prerequisites prior to entry into the required professional practice academic year. In addition, a pharmacy cumulative grade-point average of 2.00 must be earned to fulfill requirements for the Pharm.D. degree in Pharmacy.

18. Transfer credit from another institution will not be allowed for any required professional course work a student attempted, but failed to complete satisfactorily, while enrolled in the SWOSU College of Pharmacy.

19. Pharmacy admission is restricted to those persons who meet high standards of character, morality and conduct. The faculty of the College of Pharmacy reserves the right to place on non-academic probation or suspend from the College of Pharmacy any students whose attitude, actions or conduct, on or off campus, could discredit themselves, the College of Pharmacy, SWOSU, or the profession of pharmacy.

20. All students in the professional program must follow the Guidelines for Academic Integrity of the College of Pharmacy. Pharmacy students are also subject to all rules and regulations of SWOSU.

21. The College of Pharmacy does not recognize any academic forgiveness or academic reprieve granted in the computation of pre-pharmacy or pharmacy grade-point averages.

22. Nationwide background checks are conducted for students who are conditionally admitted into the College of Pharmacy (COP) professional program; and at specific points throughout the student’s academic progression in the professional pharmacy curriculum as determined by COP regulations, practice requirements, and State laws and/or regulations. If the background check indicates that a student has (1) been convicted, pled guilty or nolo contendere or otherwise ordered to complete a period of probation or supervision for a misdemeanor or felony relating to any controlled dangerous substances as defined by the Uniform Controlled Dangerous Substances Act in this state, any other state, or the United States, OR (2) been convicted, pled guilty or nolo contendere or otherwise ordered to complete a period of probation or supervision for any felony of this state, any other state, or the United States, OR (3) such charges pending, the student will have until the beginning of the admission semester or rotation semester to resolve the issue. If the issue is not resolved by that deadline, the student will not be admitted to the program or allowed to continue in the program at that time. The student who is not allowed to continue in the rotational semester MAY, in the sole discretion of the Dean of the College of Pharmacy, be granted a leave of absence for one semester to address and resolve the issue. The student who is not admitted will need to resolve the issue and apply for a subsequent admission semester.

Resolution of the issue could involve: (1) providing proof that the information was in error and the background check company subsequently removes the flag; (2) that the incident was expunged from court records and the student provides documentation of such; or (3) having further legal action provided to clear up the pending issue. If the student is able to resolve the issue before the admission or rotational semester begins, they will be allowed to proceed without further question. All costs
associated with resolution of these issues is the responsibility of the student.

The College of Pharmacy will not allow the student with such a record as described above to proceed with the program because no pharmacy facility shall employ any person with such a record without obtaining a waiver from the Director of the Oklahoma Bureau of Narcotics and Dangerous Drugs (OBN) for every pharmacy facility that the student would utilize to complete their experiential requirements of the degree. An OBN waiver can result in increased insurance costs for the pharmacy facility and present a long-term, negative stigma for the pharmacy facility since it will always be on file with OBN.

Obtaining experiential sites is already a challenging task without requesting special circumstances that could be detrimental to the pharmacy facility. Therefore, the COP will not require or request experiential sites to secure an OBN waiver for any student rotations.

**SPECIAL NOTES ON THE PROFESSIONAL PHARM.D. PROGRAM**

1. The successful completion of the professional Pharm.D. program curriculum in the College of Pharmacy as well as the practice of pharmacy requires that the accumulation of scientific knowledge is accompanied by the simultaneous acquisition of skills and professional attitudes and behavior. Therefore, all didactic, laboratory, and pharmacy practice course requirements of the curriculum in the College of Pharmacy are applicable to all students and cannot be waived.

2. Only students who are currently enrolled in the College of Pharmacy may attend the professional Pharm.D. program classes in the College of Pharmacy without permission from the Dean of the College of Pharmacy.

3. Students enrolled in any experiential components of the professional Pharm.D. program must adhere to any specific policies, procedures and/or requirements of the assigned pharmacy practice site. The Introductory Pharmacy Practice Experience (IPPE) and Advanced Pharmacy Practice Experience (APPE) courses are conducted in off-campus teaching facilities affiliated with the College of Pharmacy. Any added costs (i.e., required liability and health insurance, practice site requirements, supplies, housing, food, transportation, etc.) incurred through this dislocation must be borne by the student. Enrollment in these courses is limited by the availability of facilities and faculty. Therefore, students will be assigned to these courses based on the number of students that can be accommodated. Problems associated with the College of Pharmacy Regulations that affect the student may result in a delay in enrollment in these courses.

4. The IPPE courses are graded as Pass or Fail and do not affect the GPA calculations in any area (e.g., probation, suspension). The IPPE courses cannot be used for full-time course load or Pharm.D. program residency requirements for any semester.

5. Professional Pharm.D. program students who have complaints regarding the standards or policies and procedures of the Accreditation Council for Pharmacy Education (http://www.acpe-accredit.org/) must submit written documentation to the Associate Dean. If the student and Associate Dean cannot resolve the complaint, the complaint will be referred to the College of Pharmacy Policy Committee for review. The College of Pharmacy Policy Committee will make its recommendation to the Dean and the Dean of the College of Pharmacy will communicate the recommendation to the student.

6. Professional Electives are to be selected through consultation with the advisor and must be taken as part of the professional Pharm.D. program.

7. All students in the Pharm.D. program must be certified as pharmacy interns by the Oklahoma State Board of Pharmacy.

8. All students in the professional Pharm.D. program must complete all required documentation, which includes background checks, immunizations and vaccine series, drug screens and the SWOSU Health Record, in the prescribed time periods.

9. The cost of attendance for the professional Pharm.D. program includes the specific tuition and other costs for the professional Pharm.D. program as well as all SWOSU cost requirements.

**FINANCIAL AID INFORMATION**

Financial assistance may be available from or through SWOSU in the forms of part-time employment, scholarships, grants, and loans. Since it is important for entering students to determine that they are capable of doing satisfactory college work, they are encouraged to provide sufficient funds for their first year without employment.

Financial aid programs are coordinated by the Director of Student Financial Services, and inquiries should be directed to that office.

**LOANS**

Loans from non-federal and non-SWOSU administered funds may be available to students who have been admitted to the College of Pharmacy. Additional information and applications can be obtained from the Associate Dean. These loans include:

**BURROUGHS - WELLCOME FOUNDATION EMERGENCY LOAN FUND:** This fund was created by Burroughs-Wellcome Foundation through selected pharmacists who designated a College of Pharmacy to receive the funds.

**IPPE ROTATION GRANT FUND:** Provides assistance for students during their IPPE summer rotations.
Doctor of Pharmacy (Pharm.D.)
College of Pharmacy

PRE-PROFESSIONAL (Code 300)
Suggested Course Sequence

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<thead>
<tr>
<th>FIRST YEAR</th>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1043 or 1053 American History (3)</td>
<td>1054 Principles of Biology w/Lab (4)</td>
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<tr>
<td>1113 English Composition I (3)</td>
<td>1103 American Government &amp; Politics (3)</td>
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<td>1203 General Chemistry I (3)</td>
<td>1213 English Composition II (3)</td>
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<td>1252 General Chemistry I Lab (2)</td>
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<td>2823 Applied Calculus (3)</td>
<td>1352 General Chemistry II Lab (2)</td>
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<tr>
<td>1033 World History</td>
<td>1063 General Physics (3)</td>
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<td><strong>OR</strong> 1103 World Cultural Geography (3)</td>
<td>2263 Introduction to Macroeconomics (3)</td>
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<td>1313 Introduction to Public Speaking (3)</td>
<td>3704 Human Anatomy w/Lab (4)</td>
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<tr>
<td>3013 Organic Chemistry I (3)</td>
<td>4021 Organic Chemistry II Lab (1)</td>
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<td>3111 Organic Chemistry I Lab (1)</td>
<td>4113 Organic Chemistry II (3)</td>
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<tr>
<td>4355 Microbiology w/Lab (5)</td>
<td>HUM Select one course from the following:</td>
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<td>ART - 1223 Art Survey (3)</td>
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<td></td>
<td>LIT - 2413 Introduction to Literature (3)</td>
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<tr>
<td></td>
<td>MUSIC - 1013 Introduction to Music (3)</td>
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<td></td>
<td>PHILO - 1453 Introduction to Philosophy (3)</td>
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Doctor of Pharmacy (Pharm.D.)
College of Pharmacy

PROFESSIONAL (Code 450)
Suggested Course Sequence

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<tr>
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<tr>
<td>3001 Introduction to Pharmacy (1)</td>
<td>3010 Pharmacy Seminar I (0)</td>
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<tr>
<td>3012 Pharmacy Calculations (2)</td>
<td>3123 Pharmaceutics II (3)</td>
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<tr>
<td>3023 Pharmaceutics I (3)</td>
<td>3321 Pharm. Care Lab II (1)</td>
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<tr>
<td>3311 Pharm. Care Lab I (1)</td>
<td>3405 Fundamentals of Drug Action (5)</td>
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<tr>
<td>3614 Physiology (4)</td>
<td>3823 Health &amp; Biostatistics (3)</td>
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<tr>
<td>3813 Community Pharmacy (3)</td>
<td>4213 Immunology (3)</td>
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<td>4124 Biochemistry (4)</td>
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<tr>
<td>3213 IPPE – Community (3)</td>
<td>4010 Pharmacy Seminar II (0)</td>
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<td>4010 Pharmacy Seminar II (0)</td>
<td>4323 Pharmacotherapy I (3)</td>
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<td>4142 Health-Systems Pharmacy (2)</td>
<td>4341 Pharm. Care Lab IV (1)</td>
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<td>4302 Drug Information (2)</td>
<td>4522 Medicinal Chemistry II (2)</td>
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<td>4331 Pharm. Care Lab III (1)</td>
<td>4622 Pathophysiology II (2)</td>
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<tr>
<td>4332 Basic Pharmacokinetics (2)</td>
<td>4644 Pharmacology II (4)</td>
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<td>4512 Medicinal Chemistry I (2)</td>
<td>4712 Health Issues I (2)</td>
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<td>4612 Pathophysiology I (2)</td>
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<td>4634 Pharmacology I (4)</td>
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<td>4223 IPPE – Institutional (3)</td>
<td>5010 Pharmacy Seminar III (0)</td>
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<td>5010 Pharmacy Seminar III (0)</td>
<td>5234 Pharmacotherapy III (4)</td>
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<td>5054 Nonprescription Product Therapeutics (4)</td>
<td>5361 Pharm. Care Lab VI (1)</td>
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<td>5204 Pharmacotherapy II (4)</td>
<td>5753 Toxicology (3)</td>
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<td>5301 Clinical Pharmacokinetics (1)</td>
<td>5822 Health Issues III (2)</td>
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<td>5351 Pharm. Care Lab V (1)</td>
<td>5823 Pharmacy Administration (3)</td>
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<tr>
<td>5812 Health Issues II (2)</td>
<td>5844 Jurisprudence (4)</td>
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<td>5853 Pharmacy Management &amp; Marketing (3)</td>
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<td>Professional Elective (2)</td>
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<td>5914 APPE – Community A (4)</td>
<td>5924 APPE – Community B (4)</td>
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<tr>
<td>5944 APPE – Selective A (4)</td>
<td>5934 APPE – Institutional (4)</td>
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<tr>
<td>5954 APPE – Medicine Selective A (4)</td>
<td>5974 APPE – General Medicine (4)</td>
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<td>5964 APPE – Medicine Selective B (4)</td>
<td>5984 APPE – Selective B (4)</td>
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<td>5994 APPE – Ambulatory Care (4)</td>
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Continued On Next Page
REGULATIONS PERTAINING TO GRADUATION

Students in the School of Pharmacy must complete the Pre-Professional and Professional curriculums. This includes 30 hours in residence.

Minimum hours for graduation .............................................. 207
Minimum hours in liberal arts & sciences .................................. 55
Minimum Grade Point Average to enter the professional program .................................... 2.50
Minimum Grade Point Average in major ................................ 2.00
COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

Dr. Chad Kinder, Dean

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION............................ Dr. Randy Barnett, Associate Dean
   Education
   Kinesiology
   Parks and Recreation Management
   Psychology

EVERETT DOBSON SCHOOL OF BUSINESS AND TECHNOLOGY...................... Dr. Patsy Parker, Associate Dean
   Accounting, Computer Science, and Entrepreneurship
   Finance, Management, and Marketing
   Engineering Technology

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES............................ Dr. Marcy Tanner, Associate Dean
   Bachelor of Applied Science in Health Science
   Health Care Administration
   Health Information Management
   Health Science
   Nursing
   Occupational Therapy Assistant
   Physical Therapist Assistant
Degrees Offered in the COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

Dr. Chad Kinder, Dean
Dr. Randy Barnett, Associate Dean

EDUCATION

ELEMENTARY-SECONDARY PROGRAMS
  Art Education – B.A.Ed.
  Health and Physical Education – B.S.Ed.
  Music-Instrumental/General – B.S.Ed.
  Music-Vocal/General – B.M.Ed.
  Mild/Moderate Special Education – B.S.Ed.

ELEMENTARY PROGRAMS
  Elementary Education – B.S.Ed.
  Early Childhood Education Option

SECONDARY EDUCATION
  English Education – B.A.Ed.
  History Education – B.A.Ed.
  Mathematics Education – B.S.Ed.
  Natural Science Education – B.S.Ed.

KINESIOLOGY
  See Elementary-Secondary Programs
  Exercise Science – B.S.

PARKS AND RECREATION MANAGEMENT
  Wildland Firefighting – A.S.
  Parks and Recreation Management – B.S.
  Parks and Wildlife Law Enforcement – B.S.

PSYCHOLOGY
  Psychology – B.S.
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
DEPARTMENT OF EDUCATION

FACULTY

Ed Klein, Interim Chair
Education Center, Room 101
Phone: (580) 774-3196
E-mail: ed.klein@swosu.edu
http://www.swosu.edu/education/

Veronica Aguinaga........................................HEC 118 A........veronica.aguinaga@swosu.edu.................................................................(580) 774-7115
Bruce Belanger........................................HEC 110........bruce.belanger@swosu.edu.................................................................(580) 774-3146
Allen Boyd................................................HEC 120 D........allen.boyd@swosu.edu.................................................................(580) 774-3145
Sherri Brogdon........................................HEC 118 C........sherri.brogdon@swosu.edu.................................................................(580) 774-6825
Tracy Henry........................................HEC 118 D........tracy.henry@swosu.edu.................................................................(580) 774-3197
Evette Meliza........................................HEC 120 B........evette.meliza@swosu.edu.................................................................(580) 774-3119
Andy North........................................HEC 122........andy.north@swosu.edu.................................................................(580) 774-3158
Dana Oliver........................................HEC 118 B........dana.oliver@swosu.edu.................................................................(580) 774-3276
Ann Russell........................................HEC 120 C........ann.russell@swosu.edu.................................................................(580) 774-3277

PROFESSIONAL REQUIREMENTS

The principal purpose of the Department of Education is to provide the necessary background in professional education for the development of competencies which will contribute to successful teaching, administration, and supervision in the elementary and secondary schools. The Department of Education provides students with appropriate experiences in teaching, human growth and development, educational psychology, content, methods and materials, and directed observation and field practicum. Prospective teachers are required to participate in observation and student teaching in cooperating public schools.

As a result of state legislative actions, changes in state certification requirements, and/or changes in requirements at SWOSU, there may be additional entrance and exit standards throughout the teacher education programs.

ADMISSION TO THE DEPARTMENT OF EDUCATION

A student must apply for admission to the program in the Department of Education Chair’s office. Normally, this is accomplished in the sophomore year concurrently with enrollment in Foundations of Education. A student is permitted to take professional education and methods courses including elementary specialized courses only after being admitted to the Department of Education. Transfer students may request a one-semester temporary permit to enroll in restricted courses provided they have at least a 2.50 overall grade point average.

Admission to the Department of Education is by approval of the Admission and Retention Committee. A student, to be approved, must meet the following requirements:

1. Complete appropriate admission forms and portfolio and submit them to the chair of the Elementary/Secondary Education department. Applicants must include a current transcript.
2. Achieve an overall grade point average of not less than 2.50 in all work attempted.
3. Successful interview with the Teacher Education Admission Committee.
4. Provide evidence of adequate reading, writing, and verbal communication skills as demonstrated by appropriate coursework.
5. Passage of the Oklahoma General Education Test (OGET) is required.
6. Completion of at least 30 semester hours.
7. Complete the two three-hour credit courses ENGL 1113 and ENGL 1213 with a minimum grade of C in each course.
8. Demonstrate expressed interest in teaching by prior experience and activities.
9. Complete EDUC 2113 Foundations of Education (including 30 hours of public school observation) with a minimum grade of C.
10. Completion of Portfolio Level 1 and Level 2.
12. Completion of Plan of Study/Advisor Recommendation with signature of student and advisor.

Permission to enroll in restricted courses, e.g., Professional Education and identified subject content methods courses, requires formal admission to the Department of Education or a special enrollment status granted by the Department of Education Chair.

If an applicant is denied admission, re-application can be made upon removal of deficiencies. All appeals are initiated by the student and are forwarded to the Department of Education Chair’s Office for presentation to the Admission/Retention Committee. In order to continue in a teacher education program, a student must maintain a standard equal to that which permitted admission. The Department of Education monitors each student on a semester basis from the point of admission according to previously stated criteria. Those students who fail to maintain standards which permitted admission are informed through written correspondence from the chair, admission and retention, regarding options at their disposal, e.g., probation and/or suspension.
ADMISSION TO THE PROFESSIONAL SEMESTER
(Includes the four-week block and twelve-week teacher candidacy experience).

A teacher candidate must meet all requirements and apply for admission to the professional semester prior to the beginning of that semester after meeting in person with the Coordinator of Field Experiences. The application may be found at: http://www.swosu.edu/academics/education/teacher-candidate-app.aspx.

Admission to the professional semester is achieved by meeting the following qualifications:

1. Attend the Teacher Candidacy Application and Level 3 Portfolio meeting the semester prior to the professional semester.
2. After attending this required meeting or meeting with the Coordinator of Field Experiences, complete the SWOSU Teacher Candidate Application at this link: http://www.swosu.edu/academics/education/teacher-candidate-app.aspx.
3. Currently be a student in good standing and admitted to the Department of Education.
4. Completion of the pre-professional sequence of coursework in the Department of Education
5. Completion of at least three-quarters of the major coursework, including the methods course in the major (Secondary only).
6. Achieve an overall grade point average of not less than 2.50 in all work attempted.
7. Completion of the Level I, Level II and Level III Portfolio. (Information on portfolios is available in the Field Experiences Office.)
8. Three requests for teacher candidacy placement which do not include sites where the candidate has relatives on the faculty at the school. Proximity of the requested site to the University will be a priority consideration.
9. The candidate must meet the requirements of the cooperating school and SWOSU. Each teacher candidate is required to purchase a Teacher Candidate Notebook, which contains the requirements for the teacher candidacy, criteria for evaluation, areas of expected performance, and portfolio requirements.

ADMISSION TO THE TEACHING PROFESSION
Admission to the teaching profession is achieved through application and qualification for teacher certification. All applications for initial teacher certification require a university recommendation from the Certification Coordinator in SWOSU’s Department of Education after successful completion of the education degree coursework and all required state certification exams. Upon completion of all requirements, candidates notify the SWOSU Department of Education Certification Coordinator by completing the online Recommendation Request for Teacher Certification form at this link: http://www.swosu.edu/academics/education/certification/recommendation-request.aspx. Candidates will be notified by email when their recommendation is made at which time candidates will process their application online with the Oklahoma State Department of Education Single Sign On System at this link: https://sdeweb01.sde.ok.gov/SSO2/Signin.aspx. Requirements for university recommendation for teacher certification include:

1. Completion of the Oklahoma General Education Test (OGET); the Oklahoma Professional Teaching Examination (OPTE); and the Oklahoma Subject Area Tests (OSAT) in the area of the candidate’s major.
2. Retention/graduation grade point average of 2.50 or higher.
3. Completion of the approved degree program in teacher education.
4. Attainment of novice foreign language proficiency (contact DOE Chair’s or Certification office for details.)
5. Successfully complete a professional portfolio (Level IV.) (Contact the DOE Field Experiences office for details.)
6. Removal of all holds on the candidate’s SWOSU account.

PROGRAMS IN THE DEPARTMENT OF EDUCATION
The following programs reflect adherence by Southwestern Oklahoma State University to the certification standards of the Oklahoma State Board of Education and degree requirements as set forth by the Oklahoma State Regents for Higher Education. These programs, presenting both certification as well as degree requirements, are categorized according to the level of certificate, i.e., Elementary (1-8); Elementary-Secondary (K-12); and Secondary (7-12).
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
ELEMENTARY-SECONDARY PROGRAMS

PROGRAMS/COURSES OF STUDY
Majors:  
B.A.Ed. Art
B.S.Ed. HPE
B.M.Ed. Music Education
  • Instrumental/General Music
  • Vocal/General Music
B.S.Ed. Mild/Moderate Special Education

Degrees in the above areas enable the graduate to qualify for teacher certification (by subject) in grades K (Kindergarten) through 12. The graduate may teach the respective subject in which the degree is granted in the kindergarten; in the elementary school; in the mid or junior high school; and in the high school.

K-12 SUBJECT AREA OBJECTIVES
In the K-12 subject areas, the content methodology objectives are as follows:

ART
1. To train quality visual arts teachers.
2. To prepare students for further studies in visual arts.
3. To provide training in the basic skills of art for teacher-education students.
4. To foster creativity and critical thinking skills in art majors and non-art majors.

HEALTH AND PHYSICAL EDUCATION
1. Demonstrate, through active participation, improvement in the quality of life of the student.
2. Discover and implement effective content methodology for teaching health and physical education in the public school.
3. Describe, and provide for selection, specific content skills for athletic coaching, teaching physical education, and/or directing health work in the public school.
4. Render health services and lifetime pursuits in the interest of better living.

MUSIC
1. To enrich the students’ understanding of music through the study of music literature, history, and theory.
2. To provide students with experience and training in musical performance.
3. To serve the University community and region through musical performance in large ensemble, chamber ensemble, and solo settings.
4. To prepare students as Musicians and/or Music Educators in accordance with the standards of the National Association of Schools of Music.
5. To prepare students for graduate study.

MILD/MODERATE SPECIAL EDUCATION
1. Utilize and implement a wide variety of instructional strategies in various educational settings with learning disabled children and adolescents.
2. Demonstrate and utilize a variety of assessment and classroom management techniques.
3. Serve as a resource individual and advocate for the exceptional child.
BACHELOR OF ARTS IN EDUCATION

ART EDUCATION (Code No. 701)

GENERAL EDUCATION

Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS .................................................. Min. 40

REQUIRED CORE COURSES ................................................................. 31-35

Written Communication ................................................................. 6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics ....................................................................................... 3
Select one course.
- MATH 1143 Mathematical Concepts
- MATH 1153 Mathematical Applications
- MATH 1513 College Algebra
or a higher numbered math course

U. S. History ....................................................................................... 3
Select one course.
- HIST 1043 U.S. History to 1877
- HIST 1053 U.S. History since 1877

American Government ........................................................................ 3

POLS 1103 American Government & Politics

Science ................................................................................................. 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ....................................................................................... 3-4

- BIOL 1004 Biological Concepts w/Lab
- BIOL 1054 Principles of Biology I w/Lab
- BIOL 1013 Current Issues in Biology

Physical Science .................................................................................. 3-4

- ASTRO 1904 Astronomy
- CHEM 1004 General Chemistry w/Lab
- GEOL 1934 Physical Geology w/Lab
- SCI 1513 Conc of Phy Science (may also take w/lab)
- SCI 1501 Concepts of Phy Science Lab
- PHY 1044 Basic Physics I w/Lab
- PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ........................................................................................... 6

- HUM 1103 Introduction to Humanities
- OR
- HIST 1033 World History

AND

ART 1223 Art Survey

Human, Cultural, & Social Diversity ...................................................... 3

PSYCH 1003 General Psychology

Computer Proficiency ............................................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .................. total 40

COMM 1313 Intro to Public Speaking (required)

Art Education Major

‡ Denotes upper level studio classes repeatable twice for credit.

Required Courses .............................................................................. 28

- ART 1123 Foundations I
- ART 1133 Foundations II
- ART 1143 Foundations III
- ART 2113 Acrylic Techniques
- ART 2133 Intro to Graphic Design
- ‡ART 3353 Clay Studio
- ‡ART 3413 Sculpture Studio
- ‡ART 3483 Printmaking Studio
- ART 4253 Applied Design
- ART 4651 Senior Exhibit

Drawing Electives (chosen from this list) ............................................ 6

- ART 3153 Figure Drawing
- ART 3753 Life Drawing
- ‡ART 4333 Studio Drawing

Painting Electives (chosen from this list) .............................................. 3

- ‡ART 3113 Watercolor Studio
- ‡ART 4313 Painting Studio

Art History (chosen from this list) ....................................................... 9

- ART 3593 American Art History
- ART 3613 History of Art I
- ART 3653 History of Art II
- ART 4353 Modern Art History
- ART 4383 Art History Since 1945
- ART 4393 Non-Western Art Survey

3000 or 4000 level ART elective ......................................................... 3

Total ..................................................................................................... 49

Professional Education Requirements ................................................. 38

Certificate/Foundations Courses

- EDUC 2113 Foundations of Education
- **PSYCH 3213 Developmental Psychology
- **SPCED 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester

- LIBED 3423 Media & Technology
- EDPSY 3453 Educ Psychology (Elem)
- OR EDPSY 3653 Educ Psychology (Sec)
- ELEM 4613 Educ. Test & Measurements (Elem)
- OR SECED 4813 Educ. Test & Measurements (Sec)
- ELEM 4833 Prin of Teaching Elementary
- OR SECED 4823 Prin of Teaching Secondary
- ART 4452 CMM Elementary School Art
- ART 4553 Teacher’s Course in Art

Professional Semester

- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Contemporary Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree ........................................................................... 127

**SDE Guidelines and Procedures Handbook for Certification, page 5, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ................................................. 127
Minimum credit hours in the liberal arts & sciences ....................... 80
Minimum credit hours in upper-division (3000/4000 courses) ........... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ...................... 30
Minimum Grade Point Average in all coursework ......................... 2.50
ART EDUCATION (Code 701)  
Suggested Course Sequence

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<tr>
<td>FIRST SEMESTER</td>
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<tr>
<td>1001 Freshman Orient* (1)</td>
<td>1133 Foundations II (3)</td>
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<td>1023 Comp/Info Access (3)</td>
<td>1213 English Comp II (3)</td>
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<td>1113 English Comp I (3)</td>
<td>2413 Intro to Literature (3)</td>
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<td>1123 Foundations I (3)</td>
<td>4253 Applied Design (3)</td>
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<td>Art History (as offered) (3)</td>
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<td>Gen Educ Courses (3)</td>
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<tr>
<td>1003 Gen Psychology (3)</td>
<td>1004 Biological Conc (4)</td>
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<td>1143 Foundations III (3)</td>
<td>1103 World Cult Geog (3)</td>
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<tr>
<td>2113 Acrylic Tech (3)</td>
<td>2113 Foundations of Educ (3)</td>
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<td>3353 Clay Studio (3)</td>
<td>3132 Exceptional Child*** (2)</td>
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<td>Art History (as offered)(3)</td>
<td>3413 Sculpture (3)</td>
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<td>English Proficiency Exam**</td>
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<td>3213 Develop Psych** (3)</td>
<td>1043 or 1053 US History (3)</td>
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<td>3483 Printmaking (3)</td>
<td>1103 American Govt (3)</td>
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<td>4452 CMM Elem Art (2)</td>
<td>4553 Teachers Crse Art (3)</td>
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<td>FIRST SEMESTER</td>
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<td>3423 Media &amp; Tech (3)</td>
<td>4651 Senior Exhibit (1)</td>
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<td>3653 Educational Psych (3)</td>
<td>Professional Semester (13)</td>
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<td>4813 Educ Tests &amp; Meas (3)</td>
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<td>4823 Prin of Teaching (3)</td>
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<tr>
<td>Studio Elective (3)</td>
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* First time entering Freshmen need to take 1001 Freshman Orientation.
** If applicable. See English Proficiency Program under the General Academic Information Section
*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
BACHELOR OF SCIENCE IN EDUCATION
HEALTH AND PHYSICAL EDUCATION (Code No. 709)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ................................ Min. 40
REQUIRED CORE COURSES ........................................... 31-35
Written Communication ................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ................................................... 3
POLSC 1103 American Government & Politics

Science ................................................................. 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ................................................................. 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ................................................................. 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ................................................................. 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ........................................ 3
KINES 1133 Wellness Concepts & Exercise Applications

Computer Proficiency ......................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ........... to total 40
COMM 1313 Introduction to Public Speaking
PSYCH 1003 General Psychology

Health and Physical Education Major

Required Courses ............................................................. 27
KINES 1932 Tech as Appl to Gym, Fitness, & Aqua
KINES 1942 Tech as Applied to Individual Sports
KINES 1952 Techniques as Applied to Team Sports
KINES 2222 Introduction to Kinesiology
KINES 2212 First Aid
KINES 2502 Care and Prevention of Athletic Injuries
KINES 3133 Teaching Health in the Public Schools
KINES 3443 Kinesiology and Anatomy
KINES 4234 Exercise Physiology Lecture and Lab
KINES 4243 Therapeutic & Prescriptive Phys Educ
KINES 4262 Motor Learning

Electives (Selected courses from those listed below) ............... 11
KINES 1153 Nutrition
KINES 2242 Sports Officiating
KINES 4052 Sociology of Sports
KINES 4063 Legal Aspects in PE, Rec, & Athletics
KINES 4073 Evaluation in Physical Education
KINES 4113 Organization & Admin of HPER
KINES 4122 Organization & Admin of Athletics
KINES 4283 Principles of Coaching
KINES 4333 Principles and History of H & PE
KINES 4353 Motor Development
KINES Theory of Coaching
4802 Football
4832 Basketball
4842 Women’s Basketball
4862 Baseball
4982 Track and Minor Sports
KINES 4873 Curriculum Construction in HPER
PRM 4163 Community Recreation

Activity Electives ............................................................. 2

Professional Education Requirements .................................. 40
Certificate/Foundations Courses
EDUC 2113 Foundations of Education
†PSYCH 3213 Developmental Psychology
†SPCED 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester
EDPSY 3453 Educ Psychology (Elem)
OR EDPSY 3653 Educ Psychology (Sec)
ELEM 4613 Educ Tests & Measure (Elem)
OR SECED 4813 Educ Tests & Measurements (Sec)
ELEM 4833 Prin of Teaching Elementary
OR SECED 4823 Prin of Teaching Secondary
KINES 3553 Methods & Materials Elem HPER
KINES 4553 Teacher’s Course in HPE
KINES 4551 Capstone Experience HPE
LIBED 3423 Media & Technology

Professional Semester
EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4765 Student Teach in the Elem Schl
SECED 4965 Student Teach in the Sec Schl

TOTAL HOURS .............................................................. 120
† SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

CONTINUED ON NEXT PAGE
## REGULATIONS PERTAINING TO GRADUATION

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<th>Requirement</th>
<th>Hours</th>
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<td>Minimum credit hours for graduation</td>
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<td>Minimum credit hours in the liberal arts &amp; sciences</td>
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<td>Minimum credit hours in upper-division (3000/4000 courses)</td>
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<td>Minimum credit hours (3000/4000 courses)</td>
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<td>in major completed at SWOSU</td>
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<td>Minimum credit hours at SWOSU (15 of the last 30)</td>
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<td>Minimum Grade Point Average in all coursework</td>
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**FOR INFORMATION CONTACT:**

TBD, Chair
Department of Kinesiology
Phone: (580) 774-3254
### HPE EDUCATION (Code 709)
#### Suggested Course Sequence

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<td>1001 Freshman Orientation* (1)</td>
<td>1003 General Psychology (3)</td>
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<td>1113 English Composition I (3)</td>
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<td>2212 First Aid (2)</td>
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<td>1313 Introduction to Public Speaking (3)</td>
<td>1932 Techniques Applied to Gym, Fitness &amp; Aquatics (2)</td>
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<td>1942 Techniques Applied to Individual Sports (2)</td>
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<td>1952 Techniques Applied to Team Sports (2)</td>
<td>3133 Teaching Health in Public School (3)</td>
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<td>2113 Foundations of Education (3)</td>
<td>3213 Developmental Psychology*** (3)</td>
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<td>2502 Care &amp; Prevention of Athletic Injury (2)</td>
<td>3423 Media &amp; Technology (3)</td>
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<td>3132 Exceptional Children*** (2)</td>
<td>4234 Exercise Physiology</td>
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<td>OR 3443 Kinesiology &amp; Anatomy (3-4)</td>
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<td><strong>OR 3443 Kinesiology &amp; Anatomy (3-4)</strong></td>
<td>4262 Motor Learning (2)</td>
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<td>4243 Therapeutic/Prescriptive Physical Education (3)</td>
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<td>3321 Multi/Spec Pop (1)</td>
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<td>3553 M &amp; M Elementary PE (3)</td>
<td>4021 Contemporary Issues in Education (1)</td>
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<td>4541 Capstone (1)</td>
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** If applicable. See English Proficiency Program under the General Academic Information Section.
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GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ...................................... Min. 40
REQUIRED CORE COURSES............................................. 31-35

Written Communication...................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics............................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U.S. History.............................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government......................................................... 3

POLSC 1103 American Government & Politics

Science ................................................................................. 7-8
Select one course from Life Science and one course from Physical
Science. One Science course must be a lab science.

Life Science.......................................................................... 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science................................................................. 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities............................................................................. 6
HUM 1103 Introduction to Humanities
MUSIC 1103 Music and Culture

Human, Cultural, & Social Diversity................................. 3

PSYCH 1003 General Psychology

Computer Proficiency................................................................. 0-3
Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam,
or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .......... to total 40

COMM 1313 Introduction to Public Speaking

FOR INFORMATION CONTACT:
Dr. David Bessinger, Chair
Department of Music
Phone: (580) 774-3708
E-mail: david.bessinger@swosu.edu

Prospective teachers in Oklahoma must pass the Oklahoma
General Education Test (OGET), the appropriate Oklahoma
Subject Area Test (OSAT), and the Oklahoma Professional
Teaching Examination (OPTE) to be eligible for licensure/certification.

Instrumental/General Music Major

Required Courses.................................................................69

Music Core Curriculum....................................................... 32
MUSIC 1213 Music Theory I
MUSIC 1313 Music Theory II
MUSIC 3253 Music Theory III
MUSIC 3303 Music Theory IV
MUSIC 1221 Aural Skills I
MUSIC 1321 Aural Skills II
MUSIC 3261 Aural Skills III
MUSIC 3311 Aural Skills IV
MUSIC 4912 Advanced Music Analysis
MUSIC 4232 Arranging
MUSIC 3353 History of Music I
MUSIC 3403 History of Music II
MUSIC 3553 History of Music III
MUSIC 2981 Principles of Conducting
MUSIC 3301 Instrumental Conducting
MUSIC 2101 Voice Class or Applied Voice (1 hour)
MUSIC 4900 Recital Attendance (Enroll each semester)

Music Education................................................................. 11
MUSIC 4302 Elementary-Secondary General Music
MUSIC 4402 Band Methods
MUSIC 4602 Instrumental Literature
MUSIC 4222 Instrumental Pedagogy
MUSIC 4463 Technology in Music Education

Principal Applied Study..................................................... 8
(One Orchestral Instrument) (8 hours)
Applied Music Proficiency Exams
MUSIC 4950 Senior Recital in Principal Appl. Music Area

Secondary Applied Study.................................................... 5
MUSIC 1911 Beginning Guitar Class
MUSIC 1411 Brass Class
MUSIC 1511 Woodwind Class
MUSIC 1611 Percussion Class
MUSIC 1711 String Class

Class Piano........................................................................... 4
MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II
MUSIC 2831 Class Piano III
MUSIC 2841 Class Piano IV

Band (enroll each semester).............................................. 7
(wind and percussion majors)
OR
Orchestra (enroll each semester)...................................... 7
(string majors)

Chamber Ensemble............................................................... 1
Choral Ensemble................................................................. 1

Professional Education Requirements.......................... 27

Certificate/Foundations Courses
EDUC 2113 Foundations of Education
†SPCED 3132 Exceptional Children
†PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
EDPSY 3453 Educational Psychology (Elem)
OR EDPSY 3653 Educational Psychology (Sec)
ELEM 4833 Principles of Teaching Elementary
OR SECED 4823 Principles of Teaching Sec

Continued on next page
Professional Semester

- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Contemporary Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree .......................................................... 136

† SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation .................................. 136
Minimum credit hours in the liberal arts & sciences ................. 40
Minimum credit hours in upper-division (3000/4000 courses) ................................................................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ............ 30
Minimum Grade Point Average in all coursework ................ 2.50
# MUSIC EDUCATION - INSTRUMENTAL/GENERAL (Code 738)

## Suggested Course Sequence

### FIRST YEAR

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<tr>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
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### SECOND YEAR

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<td>2981 Principles of Conducting (1)</td>
<td>2841 Class Piano IV (1)</td>
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<td>English Proficiency Exam***</td>
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### THIRD YEAR

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<td>4463 Technology in Music Education (3)</td>
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<tr>
<td>4900 Recital Attendance (0)</td>
<td>3321 Multicultural/Spec Pop (1)</td>
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<tr>
<td>4950 Senior Recital (0)</td>
<td>4021 Contemporary Issues in Education (1)</td>
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<tr>
<td>Band (1)</td>
<td>4041 Classroom Management (1)</td>
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<tr>
<td>Chamber Ensemble (1)</td>
<td>4765 Student Teaching Elementary School (5)</td>
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<tr>
<td>Courses from List Below (5)</td>
<td>4965 Student Teaching Secondary School (5)</td>
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<td><strong>Total (17)</strong></td>
<td><strong>Total (13)</strong></td>
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</table>

These required courses are offered at irregular intervals or may be taken at any time.

- 3213 Developmental Psychology****
- 4302 Elem/Sec Gen Music (Fall Only)
- 4402 Band Methods (Fall/Odd Years)
- 3132 Exceptional Children****
- 4823 Princ Teaching Secondary
- 3653 Educational Psychology
- 4602 Instr Literature (Spring/Even Yrs)
- **Total: 22 Hrs**

* First time entering Freshmen need to take 1001 Freshman Orientation.
** String Majors may take Orchestra as Principal Organization.
*** If applicable. See English Proficiency Program under the General Academic Information Section.
**** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
BACHELOR OF MUSIC EDUCATION
VOCAL AND GENERAL MUSIC (Code No. 739)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are recommended are in italics.

**TOTAL GENERAL EDUCATION HOURS** ........................................ Min. 40

**REQUIRED CORE COURSES** .................................................. 31-35

**Written Communication** ..................................................... 6
  - **ENGL** 1113 English Composition I
  - **ENGL** 1213 English Composition II

**Mathematics** ................................................................. 3
Select one course.
  - **MATH** 1143 Mathematical Concepts
  - **MATH** 1153 Mathematical Applications
  - **MATH** 1513 College Algebra
  - or a higher numbered math course

**U. S. History** ................................................................. 3
Select one course.
  - **HIST** 1043 U.S. History to 1877
  - **HIST** 1053 U.S. History since 1877

**American Government** .................................................... 3

**POLSC** 1103 American Government & Politics

**Science** ........................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** ................................................................. 3-4
  - **BIOL** 1004 Biological Concepts w/Lab
  - **BIOL** 1054 Principles of Biology I w/Lab
  - **BIOL** 1013 Current Issues in Biology

**Physical Science** ............................................................. 3-4
  - **ASTRO** 1904 Astronomy
  - **CHEM** 1004 General Chemistry w/Lab
  - **GEOL** 1934 Physical Geology w/Lab
  - **SCI** 1513 Conc of Phy Science (may also take w/lab)
  - **SCI** 1501 Concepts of Phy Science Lab
  - **PHY** 1044 Basic Physics I w/Lab
  - **PHY** 1063 General Physics
  - or a higher numbered chemistry or physics course

**Humanities** ................................................................. 6
  - **HUM** 1103 Introduction to Humanities
  - **MUSIC** 1103 Music and Culture

**Human, Cultural, & Social Diversity** ................................. 3

**PSYCH** 1003 General Psychology

**Computer Proficiency** .................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives** (from at least two different categories) .......... to total 40
  - **COMM** 1313 Introduction to Public Speaking

---

**Vocal & General Music Major**

**Required Courses** .......................................................... 67

**Music Core Curriculum** .................................................. 31
  - **MUSIC** 1213 Music Theory I
  - **MUSIC** 1313 Music Theory II
  - **MUSIC** 3253 Music Theory III
  - **MUSIC** 3303 Music Theory IV
  - **MUSIC** 1221 Aural Skills I
  - **MUSIC** 1321 Aural Skills II
  - **MUSIC** 3261 Aural Skills III
  - **MUSIC** 3311 Aural Skills IV
  - **MUSIC** 4812 Advanced Music Analysis
  - **MUSIC** 4232 Arranging
  - **MUSIC** 3353 History of Music I
  - **MUSIC** 3403 History of Music II
  - **MUSIC** 3553 History of Music III
  - **MUSIC** 2981 Principles of Conducting
  - **MUSIC** 3151 Choral Conducting
  - **MUSIC** 4900 Rec. Attendance (enroll each semester)

**Music Education** .......................................................... 10
  - **MUSIC** 2951 Modern Language Diction
  - **MUSIC** 4463 Technology in Music Education
  - **MUSIC** 4302 Elementary-Secondary General Music
  - **MUSIC** 4452 Vocal Methods
  - **MUSIC** 4502 Choral Literature

**Principal Applied Music Area** ........................................... 9
  - (Voice or Keyboard)
    - **MUSIC** 4950 Senior Recital in Prin Appl Music Area

**Secondary Applied Area** ............................................. 8
  - (Keyboard or Voice) (8 hours)
    - **MUSIC** 2811 Class Piano I
    - **MUSIC** 2821 Class Piano II
    - **MUSIC** 2831 Class Piano III
    - **MUSIC** 2841 Class Piano IV
    - Applied Piano (4 hours)

**Applied Music Proficiency Exams** .................................. 0

**For Voice Principals:**
  - Proficiency Exams in Voice

**For Piano Principals:**
  - Proficiency Exams in Voice
  - Proficiency Exams in Piano

**Chorus (enroll each semester)** ....................................... 7

**Instrument Classes & Ensembles** ................................... 2
  - **MUSIC** 1911 Beginning Guitar Class (required)
    - One semester of Band or Orchestra may substitute for Brass, Woodwind, Percussion, or String Class.
  - **MUSIC** 1411 Brass Class
  - **MUSIC** 1511 Woodwind Class
  - **MUSIC** 1611 Percussion Class
  - **MUSIC** 1711 String Class

**Professional Education Requirements** .......................... 27

**Certificate/Foundations Courses**
  - **EDUC** 2113 Foundations of Education
  - **SPCED** 3132 Exceptional Children
  - **PSYCH** 3213 Developmental Psychology

**Foreign Language Proficiency (Required)**

*Continued on next page*
Pre-Professional Semester
EDPSY 3453 Educational Psychology (Elem)
OR EDPSY 3653 Educational Psychology (Sec)
ELEM 4833 Principles of Teaching Elementary
OR SECED 4823 Prin of Teaching Secondary

Professional Semester
EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4765 Student Teaching in the Elem School
SECED 4965 Student Teaching in the Sec School

TOTAL HOURS...............................................................134

† SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .............................................134
Minimum credit hours in the liberal arts & sciences .........................40
Minimum credit hours in upper-division
(3000/4000 courses) ..............................................................40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU .................................................8
Minimum credit hours at SWOSU (15 of the last 30) .......................30
Minimum Grade Point Average in all coursework .........................2.50

Prospective teachers in Oklahoma must pass the Oklahoma General Education Test (OGET), the appropriate Oklahoma Subject Area Test (OSAT), and the Oklahoma Professional Teaching Examination (OPTE) to be eligible for licensure/certification.

FOR INFORMATION CONTACT:
Dr. David Bessinger, Chair
Department of Music
Phone: (580) 774-3708
E-mail: david.bessinger@swosu.edu
### FIRST YEAR

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<td>Total (13)</td>
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These required courses are offered at irregular intervals or may be taken at any time.

- 2951 Modern Language Diction
- 4302 Elem/Sec Gen Music (Fall Only)
- 4463 Technology in Music Educ
- 4823 Princ Tching Secondary
- 3213 Developmental Psychology
- 3653 Educational Psychology
- 4452 Vocal Methods (Fall/Even Yrs)
- 3132 Exceptional Children
- 4502 Choral Lit (Spring/Odd Yrs)

Total: 22 Hrs

* First time entering Freshmen need to take 1001 Freshman Orientation.
** If applicable. See English Proficiency Program under the General Academic Information Section.
*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
BACHELOR OF SCIENCE IN EDUCATION
MILD/MODERATE SPECIAL EDUCATION (Code No. 735)

GENERAL EDUCATION
Courses that are required are in bold face.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES .................................................. 31-35
Written Communication .................................................................. 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ................................................................................ 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ................................................................................ 3
Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877
American Government .................................................................. 3
POLSC 1103 American Government & Politics
Science ........................................................................................ 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .................................................................................. 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ........................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ..................................................................................... 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy
Human, Cultural, & Social Diversity ............................................. 3
PSYCH 1003 General Psychology

Computer Proficiency ..................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ..... to total 40
COMM 1313 Introduction to Public Speaking

BACHELOR OF SCIENCE IN EDUCATION
MILD/MODERATE SPECIAL EDUCATION (Code No. 735)

Mild/Moderate Special Education Major
Add'l Hours To Complete Oklahoma 4x12 Requirement ........... 14
Candidates are required to complete a total of 12 hours in each of the four content areas below. 4x12 Requirements are partially built into GE requirements, but teacher candidates must work closely with their faculty advisor to select courses that fulfill the 4x12 requirement.

Communication Arts (GE -- ENGL, LIT, COMM, PHILO)
Mathematics (GE + 9 hours) Suggested: MATH 1433, 1443, 2183
Science (GE + 5 hours -- SCI, BIOL, ASTRO, GEOL, CHEM)
Social Sciences (GE -- HIST, POLSC, GEOG, SOCIO, ECON, HUM)
These courses may be taken at a community college or university (OSRHE Policy 3.21.4).

Required Courses ................................................................. 13
ELEM 4222 Phonics and Penmanship
ELEM 4463 Children's Literature
RDNG 3423 Teaching Reading I
RDNG 3432 Teaching Reading II
RDNG 4443 Diagnostic Prac in Tch Reading

Specialization ................................................................. 28
ECED 4163 Perceptual Dev in Infants/Toddlers
SPCED 3213 Intro to Mild/Moderate
SPCED 3312 Proc for Tch M/M Intellectual Disabilities
SPCED 4342 Assess Diag/Eval of Individuals with ELNs
SPCED 4323 Proc for Tch M/M Emot/Behav Disorders
SPCED 4362 Seminar in Legal and Ethical Prac
SPCED 4422 Proc Tch Autism Spectrum Disorders
SPCED 4623 Proc for Tch M/Learning Disabilities
SPCED 4821 Practicum - Mild/Mod Disabilities
SPCED 4862 Collaboration & Planning in Special Ed
SPCED 4872 Transitional Plan & Tch at Sec Level
PSYCH 4533 Language Development

Professional Education Requirements ............................................. 31
Foreign Language Proficiency (Required)
College level course or 2 years of Cor better of the same language in high school

Certificate/Foundations Courses ..............................................
EDUC 2113 Foundations of Education
PSYCH 3213 Developmental Psychology

Pre-Professional Semester ...................................................
LIBED 3423 Media & Technology
EDPSY 3653 Educational Psychology
ELEM 4613 Educ Tests & Meas (Elem)
OR SECED 4813 Educ Tests & Meas (Sec)
ELEM 4833 Principles of Teaching Elementary
OR SECED 4823 Principles of Teaching Secondary

Professional Semester ....................................................
EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemp Issues in Education
EDUC 4041 Classroom Management
ELEM 4665 Student Teaching in the Elem Schl
ELEM 4765 Student Teaching in the Sec Schl

Program Total ........................................................................... 126
REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ...................................... 125
Minimum credit hours in the liberal arts & sciences ........... 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) .......... 30
Minimum Grade Point Average in all coursework 2.50
Continued on next page
Students majoring in early childhood, elementary, and special education are required to successfully complete a minimum of 12 semester hours in each of the academic core areas. These courses may be taken at a community college or university (OSRHE Policy 3.21.4).

FOR INFORMATION CONTACT:
Mr. Ed Klein, Department of Education
Phone: (580) 774-3196; E-mail: ed.klein@swosu.edu
MILD/MODERATE SPECIAL EDUCATION (Code No. 735)
Suggested Course Sequence

<table>
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<td>FIRST SEMESTER</td>
<td>1001 Freshman Orient* (1)</td>
</tr>
<tr>
<td>1023 Comp &amp; Info Access (3)</td>
<td>1103 Amer Govt &amp; Pol (3)</td>
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<tr>
<td>1113 English Comp I (3)</td>
<td>1213 English Comp II (3)</td>
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<tr>
<td>1313 Intro to Public Spk (3)</td>
<td>xxx3 Math Course (3)</td>
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<tr>
<td>xxx3 Social Science Course (3)</td>
<td>xxx3 Comm Arts Course (3)</td>
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<tr>
<td>xxx4 Science Crse (4)</td>
<td>Total (15)</td>
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<tr>
<td>Total (17)</td>
<td>Total (17)</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>1043 or 1053 U. S. History (3)</td>
</tr>
<tr>
<td>2113 Found of Educ (3)</td>
<td>3213 Develop Psych*** (3)</td>
</tr>
<tr>
<td>3423 Media &amp; Tech (3)</td>
<td>3213 Found Mild/Moderate (3)</td>
</tr>
<tr>
<td>xxx3 Math Course (3)</td>
<td>3423 Tch Reading I (3)</td>
</tr>
<tr>
<td>xxx4 Science Course (4)</td>
<td>xxx3 Social Science Course (3)</td>
</tr>
<tr>
<td>English Proficiency Exam**</td>
<td>Total (16)</td>
</tr>
<tr>
<td>Total (16)</td>
<td>Total (16)</td>
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<table>
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<th>THIRD YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
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<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>3432 Assess Diag/Eval (2)</td>
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<tr>
<td>3432 Tch Reading II (2)</td>
<td>3312 Proc for Tch M/M ID (2)</td>
</tr>
<tr>
<td>3653 Educ Psych (3)</td>
<td>4163 Perc Dev Inf &amp; Todl (3)</td>
</tr>
<tr>
<td>4222 Phonics &amp; Pen (2)</td>
<td>4443 Diag Prac in Tch Rdng (3)</td>
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<tr>
<td>4362 Seminar in Legal (2)</td>
<td>4533 Language Dev (3)</td>
</tr>
<tr>
<td>4463 Children's Lit (3)</td>
<td>4862 Col &amp; Plan in Spec Ed (2)</td>
</tr>
<tr>
<td>xxx3 Math Course (3)</td>
<td>Total (16)</td>
</tr>
<tr>
<td>Total (17)</td>
<td>Total (16)</td>
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</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>4323 Proc for Tch Emot/Beh (3)</td>
</tr>
<tr>
<td>4422 Proc for Tch Autism (2)</td>
<td>4021 Contemporary Issues (1)</td>
</tr>
<tr>
<td>4613/4813 Ed Tests Meas (3)</td>
<td>4041 Classroom Mgmt (1)</td>
</tr>
<tr>
<td>4623 Proc for Tch M/M LD (3)</td>
<td>4665 Student Tchng Elem (5)</td>
</tr>
<tr>
<td>4821 Practicum (1)</td>
<td>4765 Student Tchng Sec (5)</td>
</tr>
<tr>
<td>4833/4823 Prin Tch El/Sec (3)</td>
<td>Total (13)</td>
</tr>
<tr>
<td>4872 Trans Plan &amp; Tch (2)</td>
<td>Total (17)</td>
</tr>
</tbody>
</table>

* First time entering Freshmen need to take 1001 Freshman Orientation.

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
ELEMENTARY PROGRAMS

ELEMENTARY EDUCATION

GOALS
After completing the Elementary Program, the candidate will be able to:

1. Identify, illustrate, and utilize sound principles of teaching.
2. Exhibit a depth of knowledge in communications in the behavioral aspects of man and society, world cultures, social issues and trends, scientific discovery, creative arts, and appreciation of the arts.
3. Demonstrate humanistic qualities of empathy, flexibility, and individual concern toward all students in clarifying their values.
4. Interpret data about students' social, emotional, intellectual, and cultural environments.
5. Utilize current trends in developing the learning environment conducive to self-discipline.
6. Practice professional ethics.
7. Develop objectives in all areas of the curriculum.

PROGRAMS OF STUDY
Majors: B.S.Ed. Elementary Education
         Early Childhood Education Option

GENERAL INFORMATION
Students completing approved programs must make a passing score on examinations required by the Oklahoma State Department of Education. Recommendations for the teaching certificate are made to the Certification Section by the University and certification is then granted by the State Board of Education.
BACHELOR OF SCIENCE IN EDUCATION
EARLY CHILDHOOD EDUCATION OPTION (Code No. 703)

GENERAL EDUCATION
Courses that are **required** are in bold face.
Courses that are recommended are in italics.

**TOTAL GENERAL EDUCATION HOURS** ................................................. Min. 40

**REQUIRED CORE COURSES** ................................................................. 31-35

**Written Communication** ................................................................. 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>English Composition I</td>
<td></td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>English Composition II</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics** ............................................................................. 3

Select one course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1143</td>
<td>Mathematical Concepts</td>
</tr>
<tr>
<td>MATH 1153</td>
<td>Mathematical Applications</td>
</tr>
<tr>
<td>MATH 1513</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>

or a higher numbered math course

**U. S. History** .................................................................................. 3

Select one course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1043</td>
<td>U.S. History to 1877</td>
</tr>
<tr>
<td>HIST 1053</td>
<td>U.S. History since 1877</td>
</tr>
</tbody>
</table>

**American Government** .................................................................. 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLSC 1103</td>
<td>American Government &amp; Politics</td>
</tr>
</tbody>
</table>

**Science** ....................................................................................... 7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** ................................................................................ 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1004</td>
<td>Biological Concepts w/Lab</td>
</tr>
<tr>
<td>BIOL 1054</td>
<td>Principles of Biology I w/Lab</td>
</tr>
<tr>
<td>BIOL 1013</td>
<td>Current Issues in Biology</td>
</tr>
</tbody>
</table>

**Physical Science** .......................................................................... 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRO 1904</td>
<td>Astronomy</td>
</tr>
<tr>
<td>CHEM 1004</td>
<td>General Chemistry w/Lab</td>
</tr>
<tr>
<td>GEOL 1934</td>
<td>Physical Geology w/ Lab</td>
</tr>
<tr>
<td>SCI 1513</td>
<td>Conc of Phy Science (may also take w/ lab)</td>
</tr>
<tr>
<td>SCI 1501</td>
<td>Concepts of Phy Science Lab</td>
</tr>
<tr>
<td>PHY 1044</td>
<td>Basic Physics I w/ Lab</td>
</tr>
<tr>
<td>PHY 1063</td>
<td>General Physics</td>
</tr>
</tbody>
</table>

or a higher numbered chemistry or physics course

**Humanities** ..................................................................................... 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HUM 1103</td>
<td>Introduction to Humanities</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>HIST 1033</td>
<td>World History</td>
</tr>
</tbody>
</table>

AND one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1223</td>
<td>Art Survey</td>
</tr>
<tr>
<td>COMM 1263</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>LIT 2333</td>
<td>Introduction to Film</td>
</tr>
<tr>
<td>LIT 2413</td>
<td>Introduction to Literature</td>
</tr>
<tr>
<td>MUSIC 1013</td>
<td>Introduction to Music I</td>
</tr>
<tr>
<td>MUSIC 1103</td>
<td>Music and Culture</td>
</tr>
<tr>
<td>PHILO 1453</td>
<td>Introduction to Philosophy</td>
</tr>
</tbody>
</table>

**Psychology** .................................................................................... 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 1003</td>
<td>General Psychology</td>
</tr>
</tbody>
</table>

**Computer Proficiency** .................................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)** ............... to total 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1313</td>
<td>Introduction to Public Speaking</td>
</tr>
</tbody>
</table>

Add/l Hours To Complete Oklahoma 4x12 Requirement ............... 14

Candidates are required to complete a total of 12 hours in each of the four content areas below. 4x12 Requirements are partially built into GE requirements, but teacher candidates must work closely with their faculty advisor to select courses that fulfill the 4x12 requirement.

**Communication Arts** (GE -- ENGL, LIT, COMM, PHILO)

**Mathematics** (GE + 9 hours) Suggested: MATH 1433, 1443, 2183

**Science** (GE + 5 hours — SCI, BIOL, ASTRO, GEOL, CHEM)

**Social Sciences** (GE -- HIST, POLSC, GEOG, SOCIO, ECON, HUM)

These courses may be taken at a community college or university (OSRHE Policy 3.21.4).

Early Childhood Education Option

**Required Courses** .......................................................................... 36

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 4163</td>
<td>Perceptual Dev Infants/Toddlers</td>
</tr>
<tr>
<td>ECED 4423</td>
<td>Play Methods &amp; Materials</td>
</tr>
<tr>
<td>ECED 4463</td>
<td>The Expressive Arts</td>
</tr>
<tr>
<td>ECED 4483</td>
<td>Exploring the Child’s World</td>
</tr>
<tr>
<td>ECED 4533</td>
<td>Guidance for the Preschool Child</td>
</tr>
<tr>
<td>ECED 4533L</td>
<td>Guide for the Preschool Child Lab</td>
</tr>
<tr>
<td>ECED 4612</td>
<td>Practicum in Early Childhood</td>
</tr>
<tr>
<td>ECED 4612L</td>
<td>Practicum in Early Childhood Lab</td>
</tr>
<tr>
<td>ELEM 4222</td>
<td>Phonics and Pemanship</td>
</tr>
<tr>
<td>ELEM 4463</td>
<td>Children’s Literature</td>
</tr>
<tr>
<td>KINES 3393</td>
<td>Nutrition for Children</td>
</tr>
<tr>
<td>RDNG 3423</td>
<td>Teaching Reading I</td>
</tr>
<tr>
<td>RDNG 4342</td>
<td>Teaching Reading II</td>
</tr>
<tr>
<td>RDNG 4443</td>
<td>Diagnostic Prac in Teaching Reading</td>
</tr>
<tr>
<td>PSYCH 4533</td>
<td>Language Development</td>
</tr>
</tbody>
</table>

**Professional Education Requirements** ..................................... 33

**Foreign Language Proficiency (Required)**
College level course or 2 years of C or better of the same language in high school

**Certificate/Foundations Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDU1 2113</td>
<td>Foundations of Education</td>
</tr>
<tr>
<td>†SPCED 3132</td>
<td>Exceptional Children</td>
</tr>
<tr>
<td>†EDPSY 3413</td>
<td>Child Psychology</td>
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</table>

**Pre-Professional Semester**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDPSY 3653</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>ELEM 4613</td>
<td>Educational Tests and Measurements (Elem)</td>
</tr>
<tr>
<td>ELEM 4833</td>
<td>Principles of Teaching Elementary</td>
</tr>
<tr>
<td>LIBED 3423</td>
<td>Media &amp; Technology</td>
</tr>
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</table>

**Professional Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 3321</td>
<td>Multicultural/Special Populations</td>
</tr>
<tr>
<td>EDUC 4021</td>
<td>Contemporary Issues in Education</td>
</tr>
<tr>
<td>EDUC 4041</td>
<td>Classroom Management</td>
</tr>
<tr>
<td>ELEM 4665</td>
<td>Student Teaching in the Elem School</td>
</tr>
<tr>
<td>ELEM 4765</td>
<td>Student Teaching in the Elem School</td>
</tr>
</tbody>
</table>

**TOTAL HOURS** .............................................................................. 123

†SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four year accredited program.

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation ............................................... 125
Minimum credit hours in the liberal arts & sciences ....................... 55
Minimum credit hours in upper-division (3000/4000 courses)............. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ......................................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ........................ 30
Minimum Grade Point Average in all coursework ........................... 2.50
## EARLY CHILDHOOD EDUCATION OPTION (Code 703)

### Suggested Course Sequence

<table>
<thead>
<tr>
<th></th>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1001 Freshman Orient* (1)</td>
<td>1103 Amer Govt &amp; Pol (3)</td>
</tr>
<tr>
<td></td>
<td>1003 Gen Psych (3)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td></td>
<td>1023 Comp/Info Access (3)</td>
<td>xxx3 Math Course (3)</td>
</tr>
<tr>
<td></td>
<td>1043 or 1053 U.S. History (3)</td>
<td>xxx4 Science Course (4)</td>
</tr>
<tr>
<td></td>
<td>1113 English Comp I (3)</td>
<td>xxx3 Social Science Course (3)</td>
</tr>
<tr>
<td></td>
<td>1313 Intro to Public Spk (3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total (16)</td>
<td>Total (16)</td>
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<tr>
<td><strong>SECOND YEAR</strong></td>
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<tr>
<td></td>
<td>1004 Lab Science Course (4)</td>
<td>3132 Excep Child**** (2)</td>
</tr>
<tr>
<td></td>
<td>2113 Found of Educ (3)</td>
<td>3393 Nutrition for Children (3)</td>
</tr>
<tr>
<td></td>
<td><strong>4423 Play Methods &amp; Mat (3)</strong></td>
<td>3423 Tch Reading I** (3)</td>
</tr>
<tr>
<td></td>
<td>xxx3 Math Course (3)</td>
<td>3423 Media &amp; Technology (3)</td>
</tr>
<tr>
<td></td>
<td>xxx3 Social Science Course (3)</td>
<td>4533 Language Develop (3)</td>
</tr>
<tr>
<td></td>
<td>English Proficiency Exam**</td>
<td>xxx3 Comm Arts Course (3)</td>
</tr>
<tr>
<td></td>
<td>Total (16)</td>
<td>Total (17)</td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3413 Child Psychology**** (3)</td>
<td>1513 College Algebra (3)</td>
</tr>
<tr>
<td></td>
<td>3432 Tchng Reading II** (2)</td>
<td>4163 Perceptual Develop (3)</td>
</tr>
<tr>
<td></td>
<td>4222 Phonics &amp; Penmanship (2)</td>
<td>4443 Diag Practices** (3)</td>
</tr>
<tr>
<td></td>
<td>4463 Expressive Arts (3)</td>
<td>4483 Explore Child’s World (3)</td>
</tr>
<tr>
<td></td>
<td>4463 Children’s Lit (3)</td>
<td>4533 Guide Preschool Child (3)</td>
</tr>
<tr>
<td></td>
<td>xxx3 Math Course (3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total (16)</td>
<td>Total (15)</td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3653 Educ Psych (3)</td>
<td>3321 Multicul/Spec Pop (1)</td>
</tr>
<tr>
<td></td>
<td>4612 Pract Early Child*** (2)</td>
<td>4021 Contemporary Issues (1)</td>
</tr>
<tr>
<td></td>
<td>4613 Educ Tests &amp; Meas (3)</td>
<td>4041 Classrm Mgmt (1)</td>
</tr>
<tr>
<td></td>
<td>4833 Prin Tch Elem (3)</td>
<td>4665 Student Tchng Elem (5)</td>
</tr>
<tr>
<td></td>
<td>xxx4 Science Course (4)</td>
<td>4765 Student Tchng Elem (5)</td>
</tr>
<tr>
<td></td>
<td>Total (15)</td>
<td>Total (13)</td>
</tr>
</tbody>
</table>

Bold lettering designates restricted courses.

The numbers 1, 2, and 3 designate the recommended order for taking reading courses.

* First time entering Freshmen need to take 1001 Freshman Orientation.

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** Other Early Childhood courses are prerequisites.

**** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
BACHELOR OF SCIENCE IN EDUCATION
ELEMENTARY EDUCATION (Code No. 700)

GENERAL EDUCATION
Courses that are required are in bold face.
Courses that are recommended are in italics.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ................................................. Min. 40
REQUIRED CORE COURSES ............................................................... 31-35

Written Communication ................................................................. 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics .................................................................................. 3
Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
or a higher numbered math course

U. S. History ...................................................................................... 3
Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government ..................................................................... 3

POLSC 1103 American Government & Politics

Science .............................................................................................. 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .................................................................................... 3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology

Physical Science ............................................................................... 3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take w/lab)
  SCI 1501 Concepts of Phy Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ...................................................................................... 6
  HUM 1103 Introduction to Humanities
  OR
  HIST 1033 World History

AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ................................................. 3

PSYCH 1003 General Psychology

Computer Proficiency ...................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ............... to total 40
  COMM 1313 Introduction to Public Speaking

Add'l Hours To Complete Oklahoma 4x12 Requirement .......... 14
Candidates are required to complete a total of 12 hours in each of the four content areas below. 4x12 Requirements are partially built into GE requirements, but teacher candidates must work closely with their faculty advisor to select courses that fulfill the 4x12 requirement.

Communication Arts (GE -- ENGL, LIT, COMM, PHILO)
  Mathematics (GE -- 9 hours) Suggested: MATH 1433, 1443, 2183
  Science (GE -- 5 hours -- SCI, BIOL, ASTRO, GEOL, CHEM)
  Social Sciences (GE -- HIST, POLSC, GEOG, SOCIO, ECON, HUM)

These courses may be taken at a community college or university (OSRHE Policy 3.21.4).

Elementary Education Major

Required Courses .......................................................................... 30
  ART 4452 CMM Elementary School Art
  ELEM 3453 Language Arts in the Elem School
  ELEM 3513 CMM Mathematics for Elem Teachers
  ELEM 3522 CMM Social Studies for Elem Teachers
  ELEM 4222 Phonics & Peformance
  ELEM 4352 Teaching Science in Elementary School
  ELEM 4463 Children's Literature
  KINES 3393 Nutrition for Children
  MUSIC 3202 Music Methods for Elem Teachers
  RDNG 3423 Teaching Reading I
  RDNG 3432 Teaching Reading II
  RDNG 4443 Diagnostic Prac in Teaching Reading

Professional Education Requirements .............................................. 33

Foreign Language Proficiency (Required)
College level course or 2 years of C or better of the same language in high school.

Certificate/Foundations Courses
  EDUC 2113 Foundations of Education
  TPCED 3132 Exceptional Children
  TEDPSY 3413 Child Psychology

Pre-Professional Semester
  EDPSY 3653 Educational Psychology
  ELEM 4613 Educational Tests & Measurements (Elem)
  ELEM 4833 Principles of Teaching Elementary
  LIBED 3423 Media & Technology

Professional Semester
  EDUC 3321 Multicultural/Special Populations
  EDUC 4021 Contemporary Issues in Education
  EDUC 4041 Classroom Management
  ELEM 4665 Student Teaching in the Elem School
  ELEM 4765 Student Teaching in the Elem School

Electives to bring total to ................................................................. 120

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ........................................... 120
Minimum credit hours in the liberal arts & sciences ................... 55
Minimum credit hours in upper-division (3000/4000 courses) ....... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ............... 30
Minimum Grade Point Average in all coursework ..................... 2.50
### ELEMENTARY EDUCATION (Code 700)

**Suggested Course Sequence**

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<td>xxx4 Science Course (4)</td>
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<td>xxx3 Social Science Course (3)</td>
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<td>2113 Found of Educ (3)</td>
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<td>3132 Excep Child*** (2)</td>
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<td>xxx3 Gen Educ Course (3)</td>
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<td>3202 Mus Meth/Elem Tchr (2)</td>
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<td>xxx3 Social Science Course (3)</td>
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<td>English Proficiency Exam**</td>
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<td>3413 Child Psychology*** (3)</td>
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<td>1513 College Algebra (3)</td>
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<td>3432 Tchng Reading II (2)</td>
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<td>3453 Lang Arts Elem (3)</td>
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<td>4443 Diag Practices3 (3)</td>
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<td>3393 Nutrition for Children (3)</td>
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<td>4452 CMM Elem Sch Art (2)</td>
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<td>4222 Phonics &amp; Penmanship (2)</td>
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<td>4463 Children’s Literature (3)</td>
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<tr>
<td>xxx3 Math Course (3)</td>
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<tr>
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<td>SECOND SEMESTER</td>
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</tr>
<tr>
<td>3423 Media &amp; Tech (3)</td>
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<td>3321 Multicul/Spec Pop (1)</td>
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<td>3653 Educ Psych (3)</td>
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<td>4021 Contemporary Issues (1)</td>
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<td>4352 Tchng Sci Elem Sch (2)</td>
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<td>4613 Educ Tests &amp; Meas (3)</td>
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<td>4665 Student Tchng Elem (5)</td>
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<td>4833 Prin Tch Elem (3)</td>
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<td>4765 Student Tchng Elem (5)</td>
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<td><strong>Total (14)</strong></td>
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</tr>
</tbody>
</table>

**Bold lettering designates restricted courses.**

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
SECONDARY EDUCATION

GOALS
The objectives for secondary education professional methodology are as follows:

1. Demonstrate effective techniques of communication.
2. Exhibit critical, logical, and rational decision making, individual awareness, and positive self-concept.
3. Possess knowledge of subject content and demonstrate relevant teaching techniques or delivery of such content.
4. Organize and implement modules and evaluate the modular system of instruction.
5. Evaluate and predict adolescent behavior and incorporate effective procedures of prevention and remediation of disciplinary problems.
6. Employ a variety of creative learning activities.
7. Demonstrate personal qualities conducive to a psychologically healthy classroom.
8. Select, administer, record, and interpret scores.
9. Exhibit an awareness of the social, emotional, mental, intellectual, and cultural environment of each student.

PROGRAMS OF STUDY
In the Department of Education at Southwestern Oklahoma State University, a student may choose majors in secondary education from English, history, mathematics, science, and social sciences. Advisement in all areas of secondary education is assigned by the major department (e.g., a Mathematics Education major will be advised by faculty in the Department of Mathematics).

Majors:  B.A.Ed. English Education
         B.A.Ed. History Education
         B.S.Ed. Mathematics Education
         B.S.Ed. Natural Science Education
         - General Concentration
         - Biology Concentration
         - Chemistry Concentration
         - Physics Concentration

GENERAL INFORMATION
When a student chooses Secondary Education as a major, the student is preparing to teach in one of the secondary levels designated as middle, junior, and senior high schools. This preparation includes the general education, the major specialization professional education, and psychology components. On the secondary school level, teachers can expect to work with students ranging from grades 6 to 12 and often ages from 12 to 20. The students in these age groups are making many decisions that will influence future success or failure. Therefore, the secondary education teacher’s responsibility is great and varied.

6-12 AREA OBJECTIVES
In the 6-12 subject area, content methodology objectives are as follows:

ENGLISH
1. Recognize psychological, social, and professional needs for effective communication.
2. Identify and demonstrate the physical and mental processes of effective communication.
3. Describe and apply the techniques for developing communication skills.
4. Demonstrate knowledge of the literature of communication and sources of information about the understanding and teaching of the language arts.
5. Exhibit the ability to communicate effectively and to understand others.
6. Explain through a variety of delivery methods significant authors, works, genres, historical backgrounds, and recurrent themes of literature and non-print media.
7. Demonstrate knowledge of diversity in national and world cultures through the study of literature.

HISTORY
1. Students will be able to explain through a variety of delivery methods significant persons, events, institutions, ideas, and trends in the fields of American, World, and Oklahoma history.
2. Students will be able to explain significant historiographical debates in the fields of American, World, and Oklahoma history.
3. Students will demonstrate an understanding of historical methods including the proper use and interpretation of sources.
4. Students will be able to explain through a variety of delivery methods material in the fields of American, World, and Oklahoma history in accordance with the 15 Oklahoma General Competencies for Teacher Licensure and Certification.
5. Students will be able to explain through a variety of delivery methods material in American and World history in accordance with the recommended standards for history and the recommended standards for historical thinking.

MATHEMATICS
1. Understand deeply the mathematics they will teach in the schools.
2. Establish learning objectives and plan for student involvement in the learning process.
3. Master and use several instructional methods, e.g., lecture, group activity, and discovery.
4. Plan for and use appropriate resources: texts, multimedia, microcomputers and resource personnel.
5. Organize instruction accommodating individual differences.
6. Design a learning environment in the classroom.
7. Demonstrate planning for community involvement and for personal/professional growth in education.

NATURAL SCIENCE
1. Construct an instructional module complete with behavioral objectives, activities, and evaluation.
2. Select and present a sample lesson from the instructional module.
3. Organize and conduct a school science laboratory.
4. Complete an equipment and supplies laboratory.
5. Prepare a display, such as a bulletin board.
6. Conduct and/or participate in a typical school science field trip.
7. Select and present abstract materials on science education.
8. Identify elementary sciences as an investigation process.
9. Provide experiences in elementary science which enhance students’ thinking skills.
10. Present selected content and concepts in elementary science, which increase environmental understanding and appreciation.

11. Provide experiences which demonstrate how children learn science.

12. Provide experiences in utilizing science materials in elementary schools.

13. Provide insights into the value of reading professional periodicals and joining professional organizations in the area of their specialization.

14. Provide a sound background in the principles and concepts of the physical and life sciences.
BACHELOR OF ARTS IN EDUCATION
ENGLISH EDUCATION (Code No. 707)

English Education Major

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 3013</td>
<td>Writing Theory/Practice</td>
<td>3</td>
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<tr>
<td>ENGL 3603</td>
<td>English Grammar</td>
<td>3</td>
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<tr>
<td>ENGL 4423</td>
<td>Introduction to Linguistics</td>
<td>3</td>
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<tr>
<td>ENGL 3023</td>
<td>Literary Theory/Practice</td>
<td>3</td>
</tr>
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<td>ENGL 4882</td>
<td>English Senior Capstone</td>
<td>3</td>
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<tr>
<td>LIT 3033</td>
<td>World Mythology</td>
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<tr>
<td>LIT 3323</td>
<td>Modern Voices in American Literature</td>
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<tr>
<td>LIT 4123</td>
<td>British Literature 1795-1950</td>
<td>3</td>
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<td>LIT 4233</td>
<td>Young Adult Literature</td>
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<td>LIT 4553</td>
<td>Issues in American Literature</td>
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<td>LIT 4763</td>
<td>British Literary Heritage to 1800</td>
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<tr>
<td>LIT 4993</td>
<td>The Novel</td>
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<td>LIT 3113</td>
<td>Early World Literature</td>
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<td>LIT 4113</td>
<td>Modern World Literature</td>
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<tr>
<td>LIT 3333</td>
<td>Shakespeare in Context</td>
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<td>LIT 3343</td>
<td>World Folk Literature</td>
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<td>LIT 4593</td>
<td>Diversity in American Literature</td>
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<td>LIT 4883</td>
<td>Women and Literature</td>
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<td>ENGL 3473</td>
<td>Creative Writing of Fiction I</td>
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<td>ENGL 3483</td>
<td>Creative Writing of Poetry I</td>
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<td>ENGL 3663</td>
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<td>ENGL 4453</td>
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<td>ENGL 4773</td>
<td>Editing</td>
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Free Elective (any course with a LIT/ENGL prefix)...........3

Note: LIT 4463 Children's Literature does not count for credit in the English Education major.

Professional Education Requirements .........................36

Certificate/Foundations Courses
   †EDPSY 3433 Adolescent Psychology                     3
   EDUC 2113 Foundations of Education                    3
   †SPCED 3132 Exceptional Children                      3

Foreign Language Proficiency (Required)

Pre-Professional Semester
   EDPSY 3653 Educational Psychology (Sec)                3
   ENGL 4673 Teaching High School English                3
   LIBED 3423 Media & Technology                          3
   SECED 4813 Educational Tests & Meas (Sec)              3
   SECED 4823 Principles of Teaching Secondary            3

Professional Semester
   EDUC 3321 Multicultural/Special Populations           3
   EDUC 4021 Contemporary Issues in Education            3
   EDUC 4041 Classroom Management                        3
   SECED 4865 Student Teaching in the Sec School         3
   SECED 4965 Student Teaching in the Sec School         3

TOTAL HOURS..................................................................123

† SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

(Continued on next page)
REGULATIONS PERTAINING TO GRADUATION

- Minimum credit hours for graduation: 123
- Minimum credit hours in the liberal arts & sciences: 80
- Minimum credit hours in upper-division (3000/4000 courses): 40
- Minimum credit hours in a major completed at SWOSU: 8
- Minimum credit hours at SWOSU (15 of the last 30): 30
- Minimum Grade Point Average in all coursework: 2.50

FOR INFORMATION CONTACT:
Dr. Kelley Logan, Chair
Department of Language & Literature
Phone: (580) 774-3734
E-mail: kelley.logan@swosu.edu
ENGLISH EDUCATION (Code 707)
Suggested Course Sequence

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<tr>
<td>1001 Freshman Orient* (1)</td>
<td>1103 American Gov (3)</td>
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<tr>
<td>1003 General Psychology (3)</td>
<td>1143 Mathematical Concepts (3)</td>
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<td>1043 or 1053 US History (3)</td>
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<td>Gen Educ Crses (3)</td>
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<td>Life Science (3-4)</td>
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<td>2113 Foundations of Educ (3)</td>
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<td>3023 Literary Theory/Prac (3)</td>
<td>3013 Writing Theory/Prac (3)</td>
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<td>3323 Mod Voice in Amer Lit (3)</td>
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<td>4123 Brit Lit 1795-1950 (3)</td>
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<td>Gen Educ Crses (3)</td>
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<td>3033 World Myth (3)</td>
<td>3433 Adolescent Psych*** (3)</td>
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<td>3132 Exceptional Child*** (2)</td>
<td>3603 English Grammar (3)</td>
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<td>4675 Teach H.S.English (5)</td>
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<td>4882 English Senior Capstone (1)</td>
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<td>4965 Std Teaching Sec (5)</td>
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* First-time entering freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
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BACHELOR OF ARTS IN EDUCATION
HISTORY EDUCATION (Code No. 730)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

**TOTAL GENERAL EDUCATION HOURS** ........................................ Min. 40
**REQUIRED CORE COURSES** ............................................................ 31-35

**Written Communication** .............................................................. 6
  ENGL 1113 English Composition I  3
  ENGL 1213 English Composition II  3

**Mathematics** .................................................................... 3
  Select one course.
  MATH 1143 Mathematical Concepts  3
  MATH 1153 Mathematical Applications  3
  MATH 1513 College Algebra  3
  or a higher numbered math course

**U. S. History** ................................................................. 3
  Select one course.
  HIST 1043 U.S. History to 1877  3
  HIST 1053 U.S. History since 1877  3

**American Government** ................................................................. 3
  POLSC 1103 American Government & Politics  3

**Science** .................................................................... 7-8
  Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
  **Life Science** ........................................................................ 3-4
  BIOL 1004 Biological Concepts w/Lab  4
  BIOL 1054 Principles of Biology I w/Lab  4
  BIOL 1013 Current Issues in Biology  3
  **Physical Science** ........................................................................ 3-4
  ASTRO 1904 Astronomy  3
  CHEM 1004 General Chemistry w/Lab  3
  GEOL 1934 Physical Geology w/Lab  3
  SCI 1513 Conc of Phy Science (may also take w/lab)  3
  SCI 1501 Concepts of Phy Science Lab  3
  PHY 1044 Basic Physics I w/Lab  3
  PHY 1063 General Physics  3
  or a higher numbered chemistry or physics course

**Humanities** ...................................................................... 6
  HIST 1033 World History  3
  AND one of the following:
  ART 1223 Art Survey  3
  COMM 1263 Introduction to Theatre  3
  LIT 2333 Introduction to Film  3
  LIT 2413 Introduction to Literature  3
  MUSIC 1013 Introduction to Music I  3
  MUSIC 1103 Music and Culture  3
  PHILO 1453 Introduction to Philosophy  3

**Human, Cultural, & Social Diversity** ........................................... 3
  PSYCH 1003 General Psychology  3

**Computer Proficiency** ................................................................. 0-3
  Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives** (from at least two different categories) ................. to total 40
  COMM 1313 Introduction to Public Speaking  3
  SOCIO 1003 Introduction to Sociology  3

History Education Major

Core Requirement-Social Science..................................................... 6
  ECONO 2263 Intro to Macroeconomics
  OR ECONO 2363 Intro to Microeconomics
  GEOG 1103 World Cultural Geography

Core Requirements-History ............................................................... 39
  HIST 1043 U.S. History to 1877
  OR HIST 1053 U.S. History since 1877 (one not taken in GE)
  HIST 2603 Writing History  3
  HIST 3000 level European and/or World Hist (12 hours)  12
  HIST 4000 level American History (15 hours)  15
  HIST 4093 Historical Research and Writing  3
  HIST 4353 Oklahoma History  3

Professional Education Requirements ............................................ 36
  Certificate/Foundation Courses
    †EDPSY 3433 Adolescent Psychology  3
    EDUC 2113 Foundations of Education  3
    †SPCED 3132 Exceptional Children  3

Foreign Language Proficiency (Required)

Pre-Professional Semester
  EDPSY 3653 Educational Psychology (Sec)  3
  LIBED 3423 Media & Technology  3
  SECED 4813 Educational Tests & Meas (Sec)  3
  SECED 4823 Principles of Teaching Secondary  3
  SOCSCE 4133 Teachers’ Course in Social Sciences  3

Professional Semester
  EDUC 3321 Multicultural/Special Populations  3
  EDUC 4021 Contemporary Issues in Education  3
  EDUC 4041 Classroom Management  3
  SECED 4865 Student Teaching in the Sec School  6
  SECED 4965 Student Teaching in the Sec School  6

**TOTAL HOURS** ........................................................................ 121

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Minimum credit hours (3000/4000 courses)
  in major completed at SWOSU .................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) .................. 30
Minimum Grade Point Average in all coursework ....................... 2.50

FOR INFORMATION CONTACT:
Dr. John Hayden, Chair
Department of Social Sciences
Phone: (580) 774-3292
E-mail: socsci@swosu.edu
## HISTORY EDUCATION (Code 730)

### Suggested Course Sequence

<table>
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<tr>
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<th>SECOND SEMESTER</th>
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<tr>
<td>1001 Freshman Orientation** (1)</td>
<td>1004 Biological Concepts (4)</td>
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<tr>
<td>1003 Intro to Sociology (3)</td>
<td>1033 World History (3)</td>
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<tr>
<td>1043 United States History to 1877 (3)</td>
<td>1053 United States History Since 1877 (3)</td>
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<tr>
<td>1113 English Comp I (3)</td>
<td>1103 World Cultural Geography (3)</td>
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<td>1143 Math Concepts (3)</td>
<td>1213 English Comp II (3)</td>
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<tr>
<td>2263 Intro to Macroeconomics OR 2363 Intro to Microeconomics (3)</td>
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<tr>
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<tr>
<td>1003 General Psychology (3)</td>
<td>3132 Exceptional Child*** (2)</td>
</tr>
<tr>
<td>1103 American Government &amp; Politics (3)</td>
<td>American History (3)</td>
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<tr>
<td>1313 Intro to Public Speaking (3)</td>
<td>General Education Courses (7)</td>
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<tr>
<td>2113 Foundation in Education (3)</td>
<td>World History (3)</td>
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<tr>
<td>2603 Writing History (3)</td>
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<tr>
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<tr>
<td>3433 Adolescent Psychology*** (3)</td>
<td>3653 Education Psychology (3)</td>
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<td>4093 Historical Research/Writing (3)</td>
<td>4353 History of Oklahoma (3)</td>
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<tr>
<td>4813 Education Test/Meas(Sec) (3)</td>
<td>4823 Princ of Tech Sec (3)</td>
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<tr>
<td>American History (3)</td>
<td>American History (3)</td>
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<tr>
<td>Pre-Professional Semester</td>
<td>Professional Semester</td>
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<tr>
<td>3423 Media &amp; Technology (3)</td>
<td>3321 Multi-Cultural/Spec Pop (1)</td>
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<tr>
<td>4133 Teachers Course in the Social Sciences (3)</td>
<td>4021 Contemp Issues in Education (1)</td>
</tr>
<tr>
<td>American History (6)</td>
<td>4041 Classroom Management (1)</td>
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<tr>
<td>Electives (1)</td>
<td>4865 Student Teaching Sec (5)</td>
</tr>
<tr>
<td>World History (3)</td>
<td>4865 Student Teaching Sec (5)</td>
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<td><strong>Total (16)</strong></td>
<td><strong>Total (13)</strong></td>
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</tbody>
</table>

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* If applicable: See English Proficiency Program under the General Academic Information Section.
** First-time entering freshmen need to take 1001 Freshman Orientation.
*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
BACHELOR OF SCIENCE IN EDUCATION
MATHEMATICS EDUCATION (Code No. 716)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

TOTAL GENERAL EDUCATION HOURS .................................................. Min. 40
REQUIRED CORE COURSES .................................................................. 31-35

Written Communication ........................................................................ 6

**ENGL** 1113 English Composition I
**ENGL** 1213 English Composition II

Mathematics ......................................................................................... 0
Waived due to major requirement

**U. S. History** ...................................................................................... 3
Select one course.

**HIST** 1043 U.S. History to 1877
**HIST** 1053 U.S. History since 1877

American Government ............................................................................ 3

**POLSC** 1103 American Government & Politics

Science ................................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

**Life Science** .................................................................................... 3-4

**BIOL** 1004 Biological Concepts w/Lab
**BIOL** 1054 Principles of Biology I w/Lab
**BIOL** 1013 Current Issues in Biology

**Physical Science** ............................................................................... 3-4

**ASTRO** 1904 Astronomy
**CHEM** 1004 General Chemistry w/Lab
**GEOL** 1934 Physical Geology w/Lab
**SCI** 1513 Conc of Phy Science (may also take w/lab)
**SCI** 1501 Concepts of Phy Science Lab
**PHY** 1044 Basic Physics I w/Lab
**PHY** 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ............................................................................................. 6

**HUM** 1103 Introduction to Humanities
**HIST** 1033 World History

AND one of the following:

**ART** 1223 Art Survey
**COMM** 1263 Introduction to Theatre
**LIT** 2333 Introduction to Film
**LIT** 2413 Introduction to Literature
**MUSIC** 1013 Introduction to Music I
**MUSIC** 1103 Music and Culture
**PHILO** 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ...................................................... 3-4

**COMM** 1313 Introduction to Public Speaking

Computer Proficiency ............................................................................. 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ....................... to total 40

**PSYCH** 1003 General Psychology

FOR INFORMATION CONTACT:
Dr. Thomas McNamara, Chair
Department of Mathematics
Phone: (580) 774-3057
E-mail: math@swosu.edu

Mathematics Education Major

Required Courses ............................................................................... 26-27
**MATH** 1513 College Algebra **AND**
**MATH** 1613 College Trigonometry
**OR**
**MATH** 1715 College Algebra & Trigonometry
**MATH** 1834 Calculus I
**MATH** 2834 Calculus II
**MATH** 3653 Linear Algebra
**MATH** 3713 College Geometry
**MATH** 3834 Calculus III
**MATH** 4653 Modern Algebra

Electives in Math (Chosen from 3000-4000 level courses) ............ 6
**MATH** 4933 may NOT count as MATH elective.

Computer Application/Computer Science ......................................... 3
**MATH** 3533 Tech and Programming in Mathematics

Statistics ................................................................................................ 3
**MATH** 3413 Statistical Methods I
**OR** **MATH** 3433 Statistics I

Professional Education Requirements ............................................... 36

Certificate/Foundations Courses
**EDPSY** 3433 Adolescent Psychology
**EDUC** 2113 Foundations of Education
**SPCED** 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester
**EDPSY** 3653 Educational Psychology (Sec)
**LIBED** 3423 Media & Technology
**MATH** 4101 Mathematics Capstone Course
**MATH** 4933 Teaching Secondary Math
**SECED** 4813 Educational Tests & Measures (Sec)
**SECED** 4823 Principles of Teaching Secondary

Professional Semester
**EDUC** 3321 Multicultural/Special Populations
**EDUC** 4021 Contemp Issues in Education
**EDUC** 4041 Classroom Management
**SECED** 4865 Student Teaching in the Sec School
**SECED** 4965 Student Teaching in the Sec School

Electives to bring total to 120 ......................................................... 5-6

TOTAL HOURS .................................................................................... 120

† SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ................................................. 120
Minimum credit hours in the liberal arts & sciences ....................... 80
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ................................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ...................... 30
Minimum Grade Point Average in Mathematics coursework ........ 2.5
Minimum Grade Point Average in all coursework ........................ 2.5

Students should work closely with their advisor to ensure that they take mathematics courses in the appropriate sequence. For example, taking a 1000 level mathematics course after successfully completing Calculus I is usually not recommended. Deviations from the appropriate sequence require departmental approval.
# MATHEMATICS EDUCATION (Code 716)

## Suggested Course Sequence*

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshman Orient (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1023 Comp Info Access (3)</td>
<td>1103 American Gov Politics (3)</td>
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<tr>
<td>1113 English Comp I (3)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>1834 Calculus I (4)</td>
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<tr>
<td>1613 College Trigonometry (3)</td>
<td>2113 Found In Education (3)</td>
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<td>Gen Educ Crses (3)</td>
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<td>Total (16)</td>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>1313 Intro Public Speaking (3)</td>
<td>3653 Linear Algebra (3)</td>
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<tr>
<td>2834 Calculus II (4)</td>
<td>3834 Calculus III (4)</td>
</tr>
<tr>
<td>3413 Statistical Methods** (3)</td>
<td>Gen Educ Crses (9)</td>
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<td>Gen Educ Crses (6)</td>
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<tr>
<td>English Proficiency Exam (if applicable)</td>
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<td>Total (16)</td>
<td>Total (16)</td>
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### THIRD YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>3113 Foundations in Math (3)</td>
<td>3132 Exceptional Child# (2)</td>
</tr>
<tr>
<td>3533 Tech and Programming Math*** (3)</td>
<td>3433 Adolescent Psych# (3)</td>
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<tr>
<td>4933 Teaching Secondary Math (3)</td>
<td>3635 Linear Algebra (3)</td>
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<tr>
<td>Gen Educ Crses (3)</td>
<td>3713 College Geometry (3)</td>
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<td>Total (14)</td>
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### FOURTH YEAR

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<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>Pre-Professional Semester</td>
<td>Professional Semester</td>
</tr>
<tr>
<td>3423 Media &amp; Tech (3)</td>
<td>3321 Multi-Cultrl/Spec Pop (1)</td>
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<tr>
<td>3653 Educ Psychology (3)</td>
<td>4021 Contemp Issues in Ed (1)</td>
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<tr>
<td>4101 Math Capstone (1)</td>
<td>4041 Classroom Mgmt (1)</td>
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<td>4653 Modern Algebra (3)</td>
<td>4865 Student Teach Sec (5)</td>
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<tr>
<td>4813 Educ Tests &amp; Meas (3)</td>
<td>4965 Student Teach Sec (5)</td>
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<td>4823 Princ of Tech Sec (3)</td>
<td></td>
</tr>
<tr>
<td>Total (16)</td>
<td>Total (13)</td>
</tr>
</tbody>
</table>

* Student schedules can vary considerably due to incoming skills, ability to enroll in summer courses, transfers or changes of major, and course availabilities. The above schedule is a guideline only, and students should consult with their advisors regularly to make any needed adjustments.

**MATH 3413 Statistical Methods I or MATH 3433 Statistics I

***Any scientific programming language OR MATH 3533 Technology and Programming in Mathematics

# The Oklahoma Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
NATURAL SCIENCE EDUCATION (Code No. 727)

Natural Science Education Major

Required Courses

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
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<tr>
<td>BIOL 3053</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3253</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3283</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1203</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1252</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1303</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1352</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 2612</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1044</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1054</td>
<td>3</td>
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</table>

Auxiliary Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1613</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who take MATH 1715 College Algebra and Trigonometry to satisfy General Education and Major math requirements must take one additional hour of electives.

Concentration (Select one from list below)

- General Concentration
  - Select 14 hours of electives from two or more areas of Biology, Chemistry, or Physics.

- Biology Concentration
  - Required course:
    - BIOL 3152
  - Remaining hours are to be selected from:
    - (recommended courses in italics)
      - BIOL 3304
      - BIOL 3604
      - BIOL 3704
      - BIOL 3814
      - BIOL 3904
      - BIOL 4355
      - BIOL 4454
      - BIOL 4604
      - BIOL 4853

- Chemistry Concentration
  - Choose at least 14 hours of chemistry electives below:
    - CHEM 2114
    - CHEM 3013/3111
    - CHEM 4113/4021
    - CHEM 3124
    - CHEM 3244
    - CHEM 4244
    - CHEM 4254

- Physics Concentration
  - Choose at least 14 hours of physics electives below:
    - PHY 2145
    - PHY 2155
    - PHY 3311
    - PHY 3403

(Students selecting this specialization must take MATH 1834 Calculus I and MATH 2834 Calculus II. PHY 2145 and 2155 satisfy the requirements for PHY 1044 and 1054. PHY 1044 and 1054 do not fulfill the requirements in the Physics Concentration.)

(CONTINUED ON NEXT PAGE)
Professional Education Requirements ............................................. 36

Certificate/Foundations Courses
**EDPSY 3433 Adolescent Psychology
**EDUC 2113 Foundations of Education
**SPCED 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester
EDPSY 3653 Educational Psychology (Sec)
LIBED 3423 Media & Technology
SECED 4843 Teachers' Course in Science
SECED 4813 Educ Tests & Measurements (Sec)
SECED 4823 Principles of Teaching Secondary

Professional Semester
EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemporary Issues in Education
EDUC 4041 Classroom Management
SECED 4865 Student Teaching in the Sec School
SECED 4965 Student Teaching in the Sec School

TOTAL HOURS .................................................................................. 126

** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ........................................... 126
Minimum credit hours in the liberal arts & sciences ..................... 55
Minimum credit hours in upper-division (3000/4000 courses) ............ 40
Minimum credit hours at SWOSU (15 of the last 30) ....................... 30
Minimum Grade Point Average in all coursework ....................... 2.50

FOR INFORMATION CONTACT:
Dr. Zach Jones, Chair
Department of Biological Sciences
(580) 774-3294
E-mail: andrea.holgado@swosu.edu

OR
Dr. Jason Johnson, Chair
Department of Chemistry & Physics
(580) 774-3220
E-mail: jason.johnson@swosu.edu
### NATURAL SCIENCE EDUCATION – GENERAL (Code 727)

#### Suggested Course Sequence

#### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Freshmen Orientation* (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1103 American Government and Politics (3)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
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<tr>
<td>1513 College Algebra (3)</td>
<td>1254 Principles of Biology II (4)</td>
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<tr>
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<td>1613 College Trigonometry (3)</td>
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<td><strong>Total (12-16)</strong></td>
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#### SECOND YEAR

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<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1303 General Chemistry II (3)</td>
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<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1352 General Chemistry II Lab (2)</td>
</tr>
<tr>
<td>1904 Astronomy</td>
<td>1313 Introduction to Public Speaking (3)</td>
</tr>
<tr>
<td><strong>OR</strong> 1934 Physical Geology (4)</td>
<td>2113 Foundations of Education (3)</td>
</tr>
<tr>
<td>3053 Cell Biology (3)</td>
<td>3152 Genetics and Cell Biology Lab (2)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td>3253 Genetics (3)</td>
</tr>
<tr>
<td>English Proficiency Exam ***</td>
<td>3283 Ecology (3)</td>
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<tr>
<td><strong>Total (15)</strong></td>
<td><strong>Total (19)</strong></td>
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#### THIRD YEAR

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1044 Basic Physics I (4)</td>
<td>1054 Basic Physics II (4)</td>
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<tr>
<td>2612 Principles of Laboratory Safety (2)</td>
<td>3433 Adolescent Psych¹ (3)</td>
</tr>
<tr>
<td>3132 Exceptional Children¹ (2)</td>
<td>General Education (3)</td>
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<tr>
<td>Science Elective** (8)</td>
<td>Science Elective** (6)</td>
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<td><strong>Total (16)</strong></td>
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#### FOURTH YEAR

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<tbody>
<tr>
<td>3423 Media and Technology (3)</td>
<td>3321 Multicultural/Spec Pop (1)</td>
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<tr>
<td>3653 Educational Psychology (Sec) (3)</td>
<td>4021 Contemp Issues in Education (1)</td>
</tr>
<tr>
<td>4813 Ed Tests and Measurements (3)</td>
<td>4041 Classroom Management (1)</td>
</tr>
<tr>
<td>4823 Prin of Tchg Sec (3)</td>
<td>4865 Student Teaching Sec (5)</td>
</tr>
<tr>
<td>4843 Teachers Course in Sci + (3)</td>
<td>4965 Student Teaching Sec (5)</td>
</tr>
<tr>
<td><strong>Total (15)</strong></td>
<td><strong>Total (13)</strong></td>
</tr>
</tbody>
</table>

* First-time entering freshmen need to take 1001 Freshman Orientation

** A total of at least 14 hours of science electives must be selected from two or more of the areas of Biology, Chemistry, Earth Science, or Physics. At least 9 hours of these electives must be upper division (3000-4000 level courses)

*** If applicable. See English Proficiency Program under the General Academic Information Section.

** Offered in fall of odd years only

¹ SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
# NATURAL SCIENCE EDUCATION – BIOLOGY (Code 727)

## Suggested Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Freshmen Orientation’ (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1103 American Government and Politics (3)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>1254 Principles of Biology II (4)</td>
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<tr>
<td>General Education (1-5)</td>
<td>1613 College Trigonometry (3)</td>
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<tr>
<td>Total (12-16)</td>
<td>Total (16)</td>
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### SECOND YEAR

<table>
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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1303 General Chemistry II (3)</td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1313 Introduction to Public Speaking (3)</td>
</tr>
<tr>
<td>1904 Astronomy</td>
<td>1352 General Chemistry II Lab (2)</td>
</tr>
<tr>
<td>OR 1934 Physical Geology (4)</td>
<td>2113 Foundations of Education (3)</td>
</tr>
<tr>
<td>3053 Cell Biology (3)</td>
<td>3152 Genetics and Cell Biology Lab (2)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td>3253 Genetics (3)</td>
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<tr>
<td>English Proficiency Exam ***</td>
<td>3283 Ecology (3)</td>
</tr>
<tr>
<td>Total (15)</td>
<td>Total (19)</td>
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<tbody>
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<tr>
<td>2612 Principles of Laboratory Safety (2)</td>
<td>3433 Adolescent Psych¹ (3)</td>
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<td>3132 Exceptional Children¹ (2)</td>
<td>General Education (3)</td>
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<tr>
<td>Biology Elective** (8)</td>
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### FOURTH YEAR

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<tbody>
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<td>4813 Ed Tests and Measurements (3)</td>
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<td>4823 Prin of Tchg Sec (3)</td>
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<tr>
<td>4843 Teachers Course in Sci * (3)</td>
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<td>Total (15)</td>
<td>Total (13)</td>
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</tbody>
</table>

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* First-time entering freshmen need to take 1001 Freshman Orientation.

** If applicable. See English Proficiency Program under the General Academic Information Section.

+ Offered in fall of odd years only

¹ See SDW Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
# NATURAL SCIENCE EDUCATION – CHEMISTRY (Code 727)

## Suggested Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Freshmen Orientation(^\d) (1)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1254 Principles of Biology II (4)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1303 General Chemistry II (3)</td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1352 General Chemistry II Lab (2)</td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1613 College Trigonometry (3)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
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<td>Total (16)</td>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>1904 Astronomy</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>OR 1934 Physical Geology (4)</td>
<td>1313 Introduction to Public Speaking (3)</td>
</tr>
<tr>
<td>3053 Cell Biology (3)</td>
<td>3253 Genetics (3)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td>3283 Ecology (3)</td>
</tr>
<tr>
<td>Chemistry Elective (6)**</td>
<td>Chemistry Elective (4)**</td>
</tr>
<tr>
<td>English Proficiency Exam ***</td>
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### THIRD YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1044 Basic Physics I (4)</td>
<td>1054 Basic Physics II (4)</td>
</tr>
<tr>
<td>2113 Foundations of Education (3)</td>
<td>1103 American Government and Politics (3)</td>
</tr>
<tr>
<td>2612 Principles of Laboratory Safety (2)</td>
<td>3433 Adolescent Psych(^1) (3)</td>
</tr>
<tr>
<td>3132 Exceptional Children (^1) (2)</td>
<td>General Education (3)</td>
</tr>
<tr>
<td>Chemistry Elective** (6)</td>
<td>Chemistry Elective** (2)</td>
</tr>
<tr>
<td>Total (17)</td>
<td>Total (15)</td>
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</table>

### FOURTH YEAR

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<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>3423 Media and Technology (3)</td>
<td>3321 Multicultural/Spec Pop (1)</td>
</tr>
<tr>
<td>3653 Educational Psychology (Sec) (3)</td>
<td>4021 Contemp Issues in Education (1)</td>
</tr>
<tr>
<td>4813 Ed Tests and Measurements (3)</td>
<td>4041 Classroom Management (1)</td>
</tr>
<tr>
<td>4823 Prin of Tchg Sec (3)</td>
<td>4865 Student Teaching Sec (5)</td>
</tr>
<tr>
<td>4843 Teachers Course in Sci (^1) (3)</td>
<td>4965 Student Teaching Sec (5)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td></td>
</tr>
<tr>
<td>Total (18)</td>
<td>Total (13)</td>
</tr>
</tbody>
</table>

* First-time entering freshmen need to take 1001 Freshman Orientation

** A total of at least 14 hours of chemistry electives must be selected from: CHEM 2114 Organic/Biochemistry, CHEM 3013/3111 Organic Chemistry I, CHEM 41134/021 Organic Chemistry II, CHEM 3124 Quantitative Analysis, CHEM 3244 Environmental Chemistry, CHEM 4124 Biochemistry, and CHEM 4254 Industrial Chemistry and Environmental Regulations. Students completing this specialization cannot select both CHEM 2114 and CHRM 3013/3111.

*** If applicable. See English Proficiency Program under the General Academic Information Section

\(^1\) SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
# NATURAL SCIENCE EDUCATION – PHYSICS (Code 727)
## Suggested Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshmen Orientation* (1)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>1303 General Chemistry II (3)</td>
</tr>
<tr>
<td>1203 General Chemistry I (3)</td>
<td>1352 General Chemistry II Lab (2)</td>
</tr>
<tr>
<td>1252 General Chemistry I Lab (2)</td>
<td>1834 Calculus I (4)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>2145 General Physics I (5)</td>
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<tr>
<td>1613 College Trigonometry (3)</td>
<td></td>
</tr>
<tr>
<td><strong>Total (15)</strong></td>
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### SECOND YEAR

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1054 Principles of Biology I (4)</td>
<td>1103 American Government and Politics (3)</td>
</tr>
<tr>
<td>1313 Introduction to Public Speaking (3)</td>
<td>1254 Principles of Biology II (4)</td>
</tr>
<tr>
<td>2155 General Physics II (5)</td>
<td>2612 Principles of Laboratory Safety (2)</td>
</tr>
<tr>
<td>2834 Calculus II (4)</td>
<td>3311 Mod Phys Eng Lab (1)</td>
</tr>
<tr>
<td>English Proficiency Exam ***</td>
<td>3403 Mod Phys Eng (3)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td></td>
</tr>
<tr>
<td><strong>Total (16)</strong></td>
<td><strong>Total (16)</strong></td>
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</table>

### THIRD YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>1003 General Psychology (3)</td>
<td>3132 Exceptional Children¹ (2)</td>
</tr>
<tr>
<td>1904 Astronomy</td>
<td>3253 Genetics (3)</td>
</tr>
<tr>
<td>OR 1934 Physical Geology (4)</td>
<td>3283 Ecology (3)</td>
</tr>
<tr>
<td>2113 Foundations of Education (3)</td>
<td>3433 Adolescent Psych¹ (3)</td>
</tr>
<tr>
<td>3052 Cell Biology (2)</td>
<td>General Education (3)</td>
</tr>
<tr>
<td>General Education (3)</td>
<td>Physics Elective** (0-3)</td>
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<td>Physics Elective** (3-4)</td>
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</tr>
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<td><strong>Total (18-19)</strong></td>
<td><strong>Total (14-17)</strong></td>
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</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>3423 Media and Technology (3)</td>
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<tr>
<td>3653 Educational Psychology (Sec) (3)</td>
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<td>4823 Prin of Tchg Sec (3)</td>
<td>4865 Student Teaching Sec (5)</td>
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<tr>
<td>4843 Teachers Course in Sci * (3)</td>
<td>4965 Student Teaching Sec (5)</td>
</tr>
<tr>
<td><strong>Total (15)</strong></td>
<td><strong>Total (13)</strong></td>
</tr>
</tbody>
</table>

---

* First-time entering freshmen need to take 1001 Freshman Orientation.

** Credit hours for students taking 1715 College Algebra and Trigonometry must total 126 hours.

*** If applicable. See English Proficiency Program under the General Academic Information Section.

¹ Offered in fall of odd years only.

** SDW Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
DEPARTMENT OF KINESIOLOGY

FACULTY
Bo Pagliasotti, Chair
Health and Physical Education Building, Room HPE 10
Phone: (580) 774-7089
E-mail: bo.pagliasotti@swosu.edu
http://www.swosu.edu/hpe/

Wayne Anderson........................HPE 110........wayne.anderson@swosu.edu..............................................(580) 774-7093
Vanessa Nix...............................HPE 40...........vanessa.nix@swosu.edu......................................................(580) 774-3181
Amber Sturgeon..........................HPE 60..........amber.sturgeon@swosu.edu...............................................(580) 774-3184

DEPARTMENTAL GOALS
The Kinesiology department has the following objectives:
1. To provide the future health and physical education-teacher and coach with skills necessary to develop exceptional programs in the public and private school.
2. To offer a four-year course of study leading to the Bachelor of Science in Education for the Health and Physical Education track student.
3. To offer specialized coursework, which includes health, physical education sciences, physical education programs, and athletic coaching theory.
4. To provide for all students a variety of programs and courses designed to aid the student in making proper choices involving healthy living styles, lifetime sports, leisure skills, and fitness skills.
5. To provide and assist the public and private schools with expertise and information in health and physical educations.
6. Prepare the future exercise science professional with skills necessary in preventive health services in a corporate or community setting or to provide rehabilitative health services in a clinical setting.
7. To offer a four-year course of study leading to the Bachelor of Science in Exercise Science.
8. To offer specialized course work, which includes applied sciences in exercise physiology, exercise testing and prescription, motor control, kinesiology and anatomy, and the sociology of exercise behavior.
9. To provide students the most contemporary issues and trends in the application of exercise for weight management, cardiopulmonary health, maintenance of functional movement throughout the lifespan, and the application of exercise science to athletic performance.

PROGRAMS OF STUDY

Major:
B.S. Exercise Science
B.S.Ed. Health and Physical Education
(Listed in Dept. of Education)

Minor:
Athletic Coaching (Non-Certification)
Health and Wellness
Sports Management

Master:
M.Ed. Health and Physical Education
M.Ed. Sports Management
(See Graduate Catalog for more information.)
GENERAL INFORMATION
Southwestern Oklahoma State University has one of the largest and most respected Kinesiology departments in the state. The degrees offered are the Bachelor of Science in Education in Health and Physical Education and the Bachelor of Science in Exercise Science.

The Bachelor of Science in Education degree in Health and Physical Education is a teaching degree accredited by the National Council for the Accreditation of Teacher Education. The Health and Physical Education degree prepares the student for teaching and coaching positions in public and private schools.

Graduates will be able to pursue employment as:
- Kindergarten through 12th grade physical education teachers
- Kindergarten through 12th grade health teachers
- Middle school, junior high, and high school coaches
- Summer camps for children and youth
- Specialized sports camps

The Bachelor of Science in Exercise Science degree is a non-teaching degree. The degree prepares graduates for a broad range of health and fitness related professions. Graduates will be able to pursue employment as:
- Preventative health services in a corporate or community setting
- Rehabilitative health services in a clinic
- Preparation for other career endeavors: Personal Trainer; Strength and Conditioning Specialist; Pre-Physical Therapy; Sport Nutrition; Cardiac Rehabilitation; Fitness and Wellness Management; and others

All courses offered are taught in small classes by professors holding a Master’s degree or higher. Presently there are two doctorate faculty in the department. The Kinesiology faculty hold positions and are active in state and national organizations.

For more information, visit our web site at:
http://www.swosu.edu/hpe/
BACHELOR OF SCIENCE
Exercise Science (Code No. 170)

GENERAL EDUCATION
Courses that are required are in bold type. Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................Min. 40
REQUIRED CORE COURSES.....................................................31-35
Written Communication.....................................................6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics.................................................................3
Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
  or a higher numbered math course
U. S. History.................................................................3
Select one course.
  HIST 1043 U. S. History to 1877
  HIST 1053 U. S. History since 1877
American Government..................................................3
POLSC 1103 American Government & Politics
Science ............................................................................7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
Life Science.................................................................3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology
Physical Science.........................................................3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take w/lab)
  SCI 1501 Concepts of Phy Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
  or a higher numbered chemistry or physics course
Humanities.................................................................6
  HUM 1103 Introduction to Humanities
  OR
  HIST 1033 World History
AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHILO 1453 Introduction to Philosophy
Human, Cultural, & Social Diversity .....................................3
  KINES 1133 Wellness Concepts & Exercise Appl
Computer Proficiency....................................................0-3
  Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).
GE electives (from at least two different categories) .... to total 40

Exercise Science Major

Required Courses ........................................................................................................58
  COMM 1313 Introduction to Public Speaking
  KINES 1153 Nutrition
  KINES 2212 First Aid
  KINES 2222 Introduction to Kinesiology
  KINES 2502 Care and Prevention of Athletic Injuries
  KINES 3353 Health & Aging
  KINES 3443 Kinesiology and Anatomy
  KINES 3662 Exercise Prog for Special Populations
  KINES 4212 Weight and Circuit Training App
  KINES 4063 Legal Aspects in PE, Rec, & Athletics
  KINES 4234 Exercise Physiology Lecture and Lab
  KINES 4262 Motor Learning
  KINES 4303 Dev of Programs, Facilities & Mgmt
  OR
  SPRTM 4573 Fitness Program Management
  KINES 4533 Consumer Health Education
  KINES 4883 Exercise Prescription & Testing
  KINES 4995 Practicum in Exercise Science †
  KINES 4997 Practicum in Exercise Science †
  PSYCH 1003 General Psychology
  SPRTM 4163 Sports Nutrition

Minor ............................................................................... 18-24
Free Electives to total 120 hours ................................................. 0-4
  No activity courses

Total hours for degree ....................................................... 120

† All course work must be completed before exercise practicum can be done.

Exercise Science Exit Exam required during the final semester of coursework.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ........................................120
Minimum credit hours in the liberal arts & sciences ......................55
Minimum credit hours in upper-division (3000/4000 courses). 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ..............................................8
Minimum credit hours at SWOSU (15 of the last 30) .................30
Minimum Grade Point Average in all coursework ......................2.25
Minimum Grade Point Average in major ................................2.25

FOR INFORMATION CONTACT:
Bo Pagliasotti, Chair
Department of Kinesiology
Phone: (580) 774-7089
EXERCISE SCIENCE (Code 170)  
Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
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<tr>
<td>FIRST SEMESTER</td>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1003 General Psychology (3)</td>
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<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
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<tr>
<td>1113 Wellness Concepts (3)</td>
<td>1313 Introduction to Public Speaking (3)</td>
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<tr>
<td>General Education Required Course (3)</td>
<td>2502 Care and Prevention of Athletic Injury (2)</td>
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<tr>
<td>1153 Nutrition (3)</td>
<td>3443 Kinesiology and Anatomy (3)</td>
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<td>2222 Introduction to Kinesiology (2)</td>
<td>4212 Weight &amp; Circuit Training (2)</td>
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<td>4163 Sports Nutrition (3)</td>
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<tr>
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<tbody>
<tr>
<td>FIRST SEMESTER</td>
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</tr>
<tr>
<td>2212 First Aid (2)</td>
<td>4262 Motor Learning (2)</td>
</tr>
<tr>
<td>4063 Legal Aspects (3)</td>
<td>4383 Dev Programs/Facility/Management OR 4573 Fitness Program Management (3)</td>
</tr>
<tr>
<td>4234 Exercise Physiology (4)</td>
<td>4533 Consumer Health (3)</td>
</tr>
<tr>
<td>Free Electives (2)</td>
<td>4883 Exercise Prescription &amp; Testing (3)</td>
</tr>
<tr>
<td>Minor (6)</td>
<td>Free Electives (2)</td>
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<tr>
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<tr>
<td>3353 Health and Aging (3)</td>
<td>4995 Practicum in Exercise Science (5)</td>
</tr>
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<td>3662 Exercise Program for Specific Population (2)</td>
<td>4997 Practicum in Exercise Science (7)</td>
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<td>Minor (9)</td>
<td>Minor (9)</td>
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<td>Total (12)</td>
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* First time entering freshmen need to take 1001 Freshman Orientation  
** If applicable. See English Proficiency Program under the General Academic Information Section.
SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

FACULTY
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Education Center, Room 121
Phone: (580) 774-7191
E-mail: ryan.haggard@swosu.edu
http://www.swosu.edu/prm/

Paul Hummel.......................... HEC 214-E........ paul.hummel@swosu.edu..(580) 774-6015
Steve Kemp.......................... HEC 214-D........ steve.kemp@swosu.edu...........(580) 774-3286
Eric Pritchard....................... HEC 214-A...........eric.pritchard@swosu.edu..............(580) 774-3142

DEPARTMENTAL GOALS
The Parks and Recreation Management Department has the following objectives:
1. To provide the future parks and recreation professional with skills necessary to develop exceptional programs.
2. To offer a four-year course of study leading to the Bachelor of Science in Parks and Recreation Management and Bachelor of Science in Parks and Wildlife Law Enforcement degrees.
3. To offer a two-year course of study leading to the Associate of Science in Wildland Firefighting degree.
4. To offer specialized coursework including parks and recreation management, adventure programming, park law enforcement, and leisure studies theory. Completion of specified coursework will enable the student majoring in another area to qualify for a minor in Parks and Recreation Management, Parks and Wildlife Law Enforcement, Wildland Fire Management, or Tactical Leadership.
5. To provide for all students a variety of programs and courses designed to assist them in gaining skills and knowledge in recreation and adventure activities.
6. To provide and assist the parks and recreation profession with expertise and information.

PROGRAMS OF STUDY
Majors:
- A.S. Wildland Firefighting
- B.S. Parks and Recreation Management
- B.S. Parks and Wildlife Law Enforcement

Minors:
- Parks and Recreation Management
- Parks and Wildlife Law Enforcement
- Wildland Fire Management
- Tactical Leadership

Master:
- M.Ed. Parks and Recreation Mgmt. (NCT)
  (See Graduate Catalog for more information.)

GENERAL INFORMATION
Southwestern Oklahoma State University has one of the most respected Parks and Recreation Management departments in the nation. The Bachelor of Science in Parks and Recreation Management degree helps prepare students for careers in a variety of professional parks and recreation settings. Upon completion of the Parks and Recreation Management degree, graduates can pursue a variety of jobs in municipal, state, federal, private, and non-profit parks and recreation organizations. A few of these agencies include:

- National Park Service
- U.S. Forest Service
- U.S. Fish and Wildlife Service
- Bureau of Indian Affairs
- U.S. Army Corps of Engineers
- Bureau of Land Management
- USAF
- U.S. Fish and Wildlife Service
- National Park Service

The Parks and Recreation Management degree will also prepare students for the pursuit of advanced degrees in leisure studies, parks and recreation management, recreation therapy, and outdoor recreation. It will provide a solid foundation for graduate study in related fields such as natural resource management, forestry, and environmental science.

The Parks and Wildlife Law Enforcement degree prepares the student to seek employment with a variety of federal, state, and municipal natural resource recreation management agencies as a park law enforcement officer/ranger or wildlife conservation officer/game warden. In addition to resource-based law enforcement and ranger positions, Parks and Wildlife Law Enforcement graduates are qualified to seek regular law enforcement positions in a variety of agencies including municipal, county, state and federal police agencies, such as the Oklahoma Highway Patrol, the U.S. Border Patrol, and the U.S. Drug Enforcement Administration. The Parks and Wildlife Law Enforcement degree includes an Oklahoma Law Enforcement Academy option. By choosing the Council on Law Enforcement, Education and Training Collegiate Officer Program (CLEET COP) option, the successful candidate will graduate with all requirements met for full-time, Oklahoma peace officer certification.

The Wildland Firefighting Associate of Science degree prepares the student for a career in state and federal wildland firefighting. The successful student will exit the program with a number of National Wildfire Coordinating Group certifications.

All courses offered are taught in small classes by instructors holding a Master’s degree or higher. The Parks and Recreation Management faculty are active in state and national professional organizations. The faculty are represented in state and national research efforts and have presented papers and published articles on various topics.

For more information visit our web site at:
http://www.swosu.edu/prm/
BACHELOR OF SCIENCE
PARKS AND RECREATION MANAGEMENT (Code No. 168)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL GENERAL EDUCATION HOURS .............. Min. 40
REQUIRED CORE COURSES .................................. 31-35
Written Communication .................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ....................................................... 3
Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
or a higher numbered math course

U. S. History ....................................................... 3
Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government ..................................... 3
POLS 1103 American Government & Politics

Science ............................................................ 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ...................................................... 3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology

Physical Science ............................................... 3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take w/lab)
  SCI 1501 Concepts of Phys Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ....................................................... 6
  HUM 1103 Introduction to Humanities
  OR
  HIST 1033 World History

  AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHIL 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ..................... 3
KINES 1133 Wellness Concepts & Exercise Appl

Computer Proficiency ....................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) to total 40

Parks and Recreation Management Major

Required Courses ............................................ 31
PRM 2102 Foundations of Parks and Recreation
PRM 3663 Recreation Management
PRM 3702 Recreational Areas and Facilities Mgmt
PRM 4113 Risk Management in Recreation
PRM 4163 Community Recreation
PRM 4663 Outdoor Recreation
NRM 4773 Natural Resource Recreation Management
PRM 4995 Internship in Professional Recreation AND
PRM 4997 Internship in Professional Recreation (Parks & Recreation – 480 hours)

AREAS OF SPECIALIZATION (9 hours) - (Choose at least one and choose 9 hours from the listed courses)

Natural Resource Management .................................. 9
  NRM 2103 Wildland Fire Management
  NRM 2142 Wildland Fuel Reduction
  NRM 4172 Natural Resource Law
  NRM 4782 Resource Interpretation
  NRM 4792 Land Use Planning
  NRM 4802 Wildland Fire Ecology
  NRM 4812 Wildlife Management

Outdoor Education ............................................ 9
PRM 2122 Wilderness First Aid
PRM 2212 Wilderness Survival
PRM 2441 High Angle Rescue
PRM 3113 Sailing, Canoeing, Hiking and Climbing
PRM 3142 Advanced Wilderness Survival
PRM 3152 SCUBA
PRM 3161 Lifeguarding
PRM 3171 Lifeguard Instructor
PRM 3211 Outdoor Educ/Adventure Programming
PRM 3262 Advanced SCUBA/Rescue Diver
PRM 3432 Ropes Course Facilitation
PRM 3452 Advanced Ropes
PRM 3552 Backpacking
PRM 3562 White Water Rafting
PRM 3692 Principles of Archery

Parks and Wildlife Law Enforcement .................... 9
  NRM 4172 Natural Resource Law
  NRM 4201 The Park Ranger
  NRM 4211 Game and Fish Law
  NRM 4812 Wildlife Management
  NRM 2122 Wilderness First Aid
  PRM 2143 Emergency Response
  PRM 2201 Basic Handgun
  PRM 3161 Lifeguarding
  PRM 3272 Public Safety Diver
  PRM 3441 High Angle Rescue
  PRM 4221 Small Craft Safety
  PRM 4343 Intro to Criminal Investigations
  PRM 4404 Legal Issues
  PRM 4881 Tactical Carbine

Sports and Athletic Management ................................ 9
KINES 2242 Sports Officiating
KINES 4052 Sociology of Sport
KINES 4122 Organization & Adm of Athletics
PSYCH 4133 Psychology of Sports
SPRTRM 3503 Sports Management
SPRTRM 3513 Sports Finance
SPRTRM 3523 Leadership in Sport
SPRTRM 4122 Recreation & Sports Mgmt. Law
SPRTRM 4132 Recreation & Sports Employ. Law
SPRTRM 4163 Sport Nutrition
SPRTRM 4533 Sports Info Management
SPRTRM 4573 Fitness Program Management
Wildland Fire Management ........................................ 9
  NRM 2103  Wildland Fire Management (Required)
  NRM 2112  Adv Firefighting Methods
  NRM 2122  Ignition Operations
  NRM 2132  Fireline Leadership & ICS
  NRM 2142  Wildland Fuel Reduction
  NRM 4802  Wildland Fire Ecology

Minor ........................................................................ 18-24

Electives to bring total to ........................................ 120

TOTAL HOURS ................................................................ 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .................. 120
Minimum credit hours in the liberal arts & sciences .......... 55
Minimum credit hours in upper-division
  (3000/4000 courses) .......................................................... 40
Minimum credit hours (3000/4000 courses)
  in major completed at SWOSU .................. 8
Minimum credit hours at SWOSU (15 of the last 30) .......... 30
Minimum Grade Point Average in all coursework ........ 2.00
Minimum Grade Point Average in major ................. 2.00
# PARKS AND RECREATION MANAGEMENT (Code 168)

**Suggested Course Sequence**

## FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshman Orient* (1)</td>
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<tr>
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<td>Gen Educ Crses (10)</td>
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## SECOND YEAR

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<tr>
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<tr>
<td>2102 Foundations of Parks &amp; Rec (2)</td>
<td>3663 Recreation Management (3)</td>
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<tr>
<td>Gen Educ Crses (10)</td>
<td>Gen Educ Crses (9)</td>
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<td>PRM Specialization Areas (2)</td>
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## THIRD YEAR

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<tr>
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<tr>
<td>3702 Rec Areas &amp; Fac Mgmt. (2)</td>
<td>4163 Community Recreation (3)</td>
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<tr>
<td>4113 Risk Management Rec (3)</td>
<td>4633 Outdoor Recreation (3)</td>
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<tr>
<td>Free Elective (4)</td>
<td>Free Electives (2)</td>
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<td>Minor Electives (6)</td>
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## FOURTH YEAR

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<td>4773 Natural Res Rec Mgmt (3)</td>
<td>4995 Intern In PRM (6)</td>
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<tr>
<td>Free Elective (3)</td>
<td>4997 Intern In PRM (7)</td>
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<td>Minor Electives (6)</td>
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<td>PRM Specialization Area (2)</td>
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</table>

* First time entering freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
BACHELOR OF SCIENCE
PARKS AND WILDLIFE LAW ENFORCEMENT (Code No. 161)

Parks and Wildlife Law Enforcement Major

Required Courses for all options ........................................... 34
PRM 2102 Foundations of Parks and Recreation
PRM 2122 Wilderness First Aid
PRM 2143 Emergency Response
PRM 3663 Recreation Management
PRM 4113 Risk Management in Recreation
NRM 4172 Natural Resource Law
NRM 4201 The Park Ranger
NRM 4211 Game and Fish Law
NRM 4773 Natural Resource Recreation Mgmt.
NRM 4812 Wildlife Management
NRM 4995 & Intern in Parks & Wildlife Law
NRM 4997 Enforcement (480 hours)

CLEET Option (this is a major/minor program) ...................... 34
NRM 3112 Intro to Parks & Wildlife Law Enf
PRM 4383 Basic Tracking
PRM 4404 Legal Issues
PRM 4421 Traffic Law
PRM 4433 Criminal Investigations I
PRM 4441 Radar Operations
PRM 4452 SFST/Drug Recognition
PRM 4512 Community Policing
PRM 4633 Criminal Investigations II
PRM 4641 Terrorism
PRM 4664 Firearms
PRM 4674 Defensive Tactics
PRM 4683 Patrol Procedures
PRM 4691 Emergency Vehicle Operations

Standard Option (Choose at least 6 hours from courses listed below)
PRM 2201 Basic Handgun
PRM 3152 SCUBA
PRM 3161 Lifeguarding
PRM 3262 Advanced SCUBA/Rescue Diver
PRM 3272 Public Safety Diver
PRM 3432 Ropes Course Facilitation
PRM 3441 High Angle Rescue
PRM 3452 Advanced Ropes
PRM 3702 Rec Areas & Facilities Mgmt.
PRM 4221 Small Craft Safety/Boating Law
PRM 4343 Intro to Criminal Investigations
PRM 4663 Outdoor Recreation
PRM 4881 Tactical Carbine
NRM 4011-4 Seminar in Natural Resource Mgmt.
NRM 4802 Wildland Fire Ecology
NRM 4832 Wildlife Habitat Management

Minor (required for Standard option only) .............................. 18-24

Electives to bring total to .............................................. 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ................................. 120
Minimum credit hours in the liberal arts & sciences ........... 55
Minimum credit hours in upper-division (3000/4000 courses) ........................................ 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................ 8
Minimum credit hours at SWOSU (15 of the last 30) ............ 30
Minimum Grade Point Average in all coursework .............. 2.00
Minimum Grade Point Average in major .......................... 2.00
PARKS AND WILDLIFE LAW ENFORCEMENT (Code 161)  
(CLEET OPTION)  
Suggested Course Sequence

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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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| 1001 Freshman Orient* (1)  
1063 English Comp I (3)  
Gen Educ Crses (11) | 1213 English Comp II (3)  
Gen Educ Crses (12) |  |
| Total (15) | Total: (15) |  |

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<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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</tbody>
</table>
| 2102 Foundations in PRM (2)  
Gen Educ Crses (10)  
Free Electives (3) | 2122 Wilderness First Aid (2)  
3663 Recreation Management (3)  
4113 Risk Management (3)  
4172 Natural Resource Law (2)  
Free Electives (5) |  |
| Total (15) | Total (15) |  |

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<thead>
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<th>THIRD YEAR</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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</tr>
</tbody>
</table>
| 2143 Emergency Response (3)  
4201 The Park Ranger (1)  
4211 Game and Fish Law (1)  
4812 Wildlife Management (2)  
Free Electives (8) | 4995 Intern PWLE (6)  
4997 Intern PWLE (7) |  |
| Total (15) | Total (12) |  |

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<th>FOURTH YEAR (CLEET OPTION)</th>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SPRING INTERIM</strong></td>
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</tbody>
</table>
| 3112 Intro to PWLE (2)  
4383 Basic Tracking (3)  
4404 Legal Issues (4)  
4512 Community Policing (2)  
4664 Firearms (4) | 4452 SFST/Drug Recognition (2)  
4641 Terrorism (1) |  |
| Total (15) | Total (3) |  |

(Continued on next page)
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<th>Fourth Year</th>
<th>(CLEET OPTION)</th>
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<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>4421 Traffic Law (1)</td>
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<td>4433 Crim Investigations I (3)</td>
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<tr>
<td>4441 Radar Operations (1)</td>
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<tr>
<td>4633 Crim Investigations II (3)</td>
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<tr>
<td>4683 Patrol Procedures (3)</td>
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<tr>
<td>4691 Emer Veh Oper (1)</td>
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</tbody>
</table>

* First time entering freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section
ASSOCIATE OF SCIENCE IN WILDLAND FIREFIGHTING  
(Code No. W98)  

Wildland Firefighting Major  

Required Major Area Courses .............................................. 13  
NRM  2103  Wildland Fire Management  
NRM  2112  Advanced Firefighting Methods  
NRM  2122  Ignition Operations  
NRM  2132  Fireline Leadership & ICS  
NRM  2142  Wildland Fuel Reduction  
PRM  2122  Wilderness First Aid  

Choose one option:  
 Internship Option ............................................................ 5  
NRM  2995  Internship in Wildland Fire Mgmt.  
(200 hours)  

Standard Option ............................................................... 5  
NRM  2001-4  Independent Study in Wildland Fire Mgmt.  
NRM  2011-4  Seminar in Wildland Fire Mgmt.  
PRM  2143  Emergency Response  
PRM  2212  Wilderness Survival  
PRM  2441  High Angle Rescue  

Electives to reach 60 hours .................................................. 2  

TOTAL HOURS ........................................................................ 60  

60 hours required for A.S. Degree  

40 hours required for general education  
18 hours required for major area  
2 hours required for electives  

GENERAL EDUCATION  
Courses that are required are in bold type.  
TOTAL GENERAL EDUCATION HOURS ................................. Min. 40  
REQUIRED CORE COURSES ................................................... 31-35  

Written Communication .................................................. 6  
ENGL  1113  English Composition I  
ENGL  1213  English Composition II  

Mathematics ........................................................................... 3  
Select one course.  
MATH  1143  Mathematical Concepts  
MATH  1153  Mathematical Applications  
MATH  1513  College Algebra  
or a higher numbered math course  

U. S. History ............................................................................ 3  
Select one course.  
HIST  1043  U.S. History to 1877  
HIST  1053  U.S. History since 1877  

American Government ...................................................... 3  
POLSC  1103  American Government & Politics  

Science .................................................................................. 7-8  
Select one course from Life Science and one course from 
Physical Science. One Science course must be a lab science.  

Life Science .............................................................................. 3-4  
BIOL  1004  Biological Concepts w/Lab  
BIOL  1054  Principles of Biology I w/Lab  
BIOL  1013  Current Issues in Biology  

Physical Science ...................................................................... 3-4  
ASTRO  1904  Astronomy  
CHEM  1004  General Chemistry w/Lab  
GEOL  1934  Physical Geology w/Lab  
SCI  1513  Conc of Phy Science  
(or may also take w/lab)  
SCI  1501  Concepts of Phy Science Lab  
PHY  1044  Basic Physics I w/Lab  
PHY  1063  General Physics  
or a higher numbered chemistry or physics course  

Humanities ................................................................................. 6  
HUM  1103  Introduction to Humanities  
OR  
HIST  1033  World History  

AND one of the following:  

ART  1223  Art Survey  
COMM  1263  Introduction to Theatre  
LIT  2333  Introduction to Film  
LIT  2413  Introduction to Literature  
MUSIC  1013  Introduction to Music I  
MUSIC  1103  Music and Culture  
PHILO  1453  Introduction to Philosophy  

Human, Cultural, & Social Diversity .............................................. 3-4  
KINES  1133  Wellness Concepts & Exercise Appl  

Computer Proficiency ............................................................. 0-3  
Students must demonstrate computer proficiency (high 
school Computer Science course, SWOSU computer 
proficiency exam, or COMSC 1023 Computer & Info 
Access)  

GE electives (from at least two different categories) to total 40
DEPARTMENTAL GOALS FOR UNDERGRADUATES

- To provide students with educational experiences that facilitates their knowledge of the major concepts, theoretical perspectives, and empirical findings in psychology as well as encourage lifelong learning.
- To equip students with research methodology and critical thinking skills.
- To prepare students for employment or further study in a variety of fields or disciplines.
- To create an environment in the department that reflects concern for students and promotes tolerance and diversity.
- To provide professional development opportunities and outreach programs for our faculty, students and individuals in our service area.

PROGRAMS OF STUDY

**Major:** B.S. Psychology

**Minor:** Psychology
- Alcohol & Chem. Dependency Counseling
- Child Development Psychology
- Sports Psychology
- Forensic Psychology

THE FIELD OF PSYCHOLOGY

Psychology is the scientific study of human and animal behavior and mental processes. It is also the application of knowledge to help solve problems in the real world. The psychology undergraduate and graduate programs prepare students for graduate school and a variety of careers. Psychology is also a stepping-stone to other disciplines such as law or medicine.

SWOSU PSYCHOLOGY DEPARTMENT AND PROGRAMS

The department is located in Quanah Parker Center. Within the department there are rooms for research, a computer lab and an assessment clinic. Special resources available include a variety of specialized research equipment and testing and therapy materials.

The department consists of ten faculty with broad training and diverse specialties and research interest in psychology. Undergraduate classes range in size from 12 to 45 students and graduate classes range from five to 30 students. A number of the faculty conduct research with students (mainly undergraduates) serving as research assistants. The department offers numerous opportunities for students to work with faculty and their peers and learn outside the classroom. The major emphasis of the faculty is in teaching and helping each student to reach his or her learning goals. There are a number of scholarships available through the department. The department sponsors undergraduate and graduate psychology clubs which are very active in university, community and social activities. We also sponsor a Psi Chi chapter which is a national honor society in psychology.

RESEARCH INTEREST

The department has active research programs in prejudice, stereotyping in video games, women’s issues, child literacy, issues of child abuse and neglect, health psychology, and career counseling.

For more information visit our web site at http://www.swosu.edu/psych/
BACHELOR OF SCIENCE
PSYCHOLOGY (Code No. 160)

GENERAL EDUCATION
Courses that are **required** are in bold type.
Courses that are **recommended** are in italics.

TOTAL GENERAL EDUCATION HOURS .......................... Min. 40
REQUIRED CORE COURSES..............................................31-35

Written Communication......................................................6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics........................................................................3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course
U. S. History ...........................................................................3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877
American Government .............................................................3
POLSC 1103 American Government & Politics
Science ................................................................................7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
Life Science ..........................................................................4
Biol 1004 Biological Concepts w/Lab
Physical Science ....................................................................3-4
ASTRO 1904 Astronomy
CHEM 104 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science
 may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ............................................................................6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .........................................3
PSYCH 1003 General Psychology

Computer Proficiency ...............................................................0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .... to total 40
COMM 1313 Introduction to Public Speaking
KINES 1133 Wellness Concepts & Exercise Appl

Psychology Major

Required core courses ................................................................7
PSYCH 2433 Psychological Statistics
PSYCH 3224 Research Methods

Category A ..............................................................................6
(Select 6 hours from the following:)
PSYCH 2423 Social Psychology
PSYCH 3333 Behavior Management
PSYCH 3363 Psychology of Personality

Category B ..............................................................................6
(Select 6 hours from the following:)
PSYCH 3233 Learning & Memory
PSYCH 3253 Psychological Tests
PSYCH 4333 Physiological Psychology

Category C .............................................................................17-18
(Select 17-18 hours from the following:)
PSYCH 2423 Social Psychology†
PSYCH 3201-4 Contemporary Problems in Psychology
PSYCH 3213 Developmental Psychology
PSYCH 3233 Learning & Memory†
PSYCH 3243 Cross-Cultural Psychology
PSYCH 3253 Psychological Tests†
PSYCH 3323 Abnormal Psychology
PSYCH 3333 Behavior Management†
PSYCH 3363 Psychology of Personality†
PSYCH 4011-4 Seminar in Psychology
PSYCH 4113 Issues in Chemical Dependency
PSYCH 4123 Theories and Prin of Psychotherapy
PSYCH 4133 Psychology of Sports
PSYCH 4203 Psychology of Women
PSYCH 4223 Media & Mental Illness
PSYCH 4313 Introduction to Clinical Psychology
PSYCH 4323 Forensic Psychology
PSYCH 4333 Physiological Psychology†
PSYCH 4371-4 Psychological Research
PSYCH 4391-4 Advanced Seminar in Psychology
PSYCH 4533 Language Development
†These courses may only be used once.

Minor ..................................................................................19-24
Students are free to choose any minor, including these psychology minors listed in the Minor Program section: Alcohol and Chemical Dependency Counseling Child Developmental Psychology, Forensic Psychology, or Sports Psychology.

Electives to bring total to 120 ..............................................19-26

TOTAL HOURS ..................................................................120

Psychology minor listed in Minor Program section.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation......................... 120
Minimum credit hours in the liberal arts & sciences ........ 55
Minimum credit hours in upper-division
(3000/4000 courses) ....................................................... 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU ................................. 8
Minimum credit hours at SWOSU (15 of the last 30) .......... 30
Minimum Grade Point Average in all coursework ........ 2.00
Minimum Grade Point Average in major ..................... 2.00
PSYCHOLOGY (Code 160)
Suggested Course Sequence

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<td>1003 General Psychology (3)</td>
<td>Level II Psychology Course (3)</td>
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<td>Minor (3)</td>
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<td>Level IV or V Psychology Courses (6)</td>
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* First time entering freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
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<th>Level I</th>
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<td>4371-4</td>
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<td>Advanced Seminar in Psychology</td>
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Degrees Offered in the
COLLEGE OF PROFESSIONAL
AND GRADUATE STUDIES

Everett Dobson School of
Business and Technology

Dr. Chad Kinder, Dean
Dr. Patsy Parker, Associate Dean

DEPARTMENT OF BUSINESS AND COMPUTER SCIENCE

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)
  Accounting
  Entrepreneurship
  Finance
  Management
  Marketing

BACHELOR OF SCIENCE
  Computer Science (with options in Computer Science or Information Systems)

DEPARTMENT OF ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE
  Engineering Technology with Option in:
    Computer Electronics Engineering Technology
    Environmental Engineering Technology
    Manufacturing Engineering Technology

  Industrial Technology with Option in:
    Electronics Technology
    Manufacturing Technology
SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF BUSINESS AND COMPUTER SCIENCE

FACULTY
Trisha Wald, Chair
Madeline Baugher, Computer Science Program Director
http://www.swosu.edu/business

The Department of Business and Computer Science offers students professional education in business that will facilitate their personal development for careers in business, government, non-profit organizations, teaching, or graduate level study in business. The primary strength of the School’s programs is excellence in teaching and individual attention given to students.

The faculty and staff of the Department of Business and Computer Science strive to create and sustain a professional attitude and a close working relationship with students. In addition to emphasis placed on high quality instruction in the classroom, faculty encourage students to conduct themselves in an ethical manner and extend their learning beyond the classroom by participating in an active business-related (Phi Beta Lambda) or Computer Science Club on campus.

The Department’s programs are designed to reflect the environment of the many small and medium-sized businesses found in the region. At the same time, large organizations and the significance of today’s international trade environment are recognized.

Degree programs are developed around a professional business core. The curricula design leads to a Bachelor of Business Administration (B.B.A.) with majors in Accounting, Entrepreneurship, Finance, Management and Marketing along with a bachelor of Science (B.S.) with a major in Computer Science. For post-graduate study, a Master of Business Administration (M.B.A.) degree and a Master of Science in Management degree is offered. See the Graduate Catalog for more information.

The Everett Dobson School of Business and Technology programs are accredited – the business programs by the International Assembly for Collegiate Business Education (IACBE) and the technology programs by the Technology Accreditation Commission (TAC) of ABET and by the Association of Technology, Management, and Applied Engineering (ATMAE). The School maintains active membership in the Association to Advance Collegiate Schools of Business (AASCB).

The Everett Dobson School of Business and Technology graduates can/will:

1. Communication: communicate effectively using oral and written skills.
2. Knowledge: apply critical thinking skills, discipline-specific knowledge, and current technology to analyze, evaluate, and solve problems.
3. Ethics: identify and assess ethical business and technology issues and socially responsible behavior.
4. Collaboration: collaborate effectively in a diverse team environment using interpersonal and technological skills.

Goals/Objectives of the B.S. programs in Computer Science:

1. Graduates will have broad knowledge of the theory and applications in computing that will lead them to successful careers in the field of Computer Science/Information Systems.
2. Graduates will have the knowledge to pursue studies in rigorous graduate programs in Computer Science/Information Systems.
3. Graduates will have solid background to be successful teachers in the field of Computer Science/Information Systems.
4. Department provides supportive coursework in Computer Science/Information Systems for non-majors.

(Continued on next page)
PROGRAMS OF STUDY

Majors:  
- B.B.A. Accounting
- B.B.A. Management
- B.B.A. Entrepreneurship
- B.B.A. Marketing
- B.B.A. Finance
- B.S. Computer Science  
  - Options: Computer Science OR Information Systems
- B.S. Organizational Leadership

Minors:  
- Accounting
- Information Systems
- Computer Science
- Management
- Entrepreneurship
- Marketing
- Finance
- Organizational Leadership
- Forensics

Graduate:  
- Master of Business Administration
- Master of Science in Management
(See Graduate Catalog for more information.)

For more information, visit our web sites at:  
http://www.swosu.edu/academics/business.index.asp
BACHELOR OF BUSINESS ADMINISTRATION
ACCOUNTING (Code No. 202)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ..................................................... 31-35

Written Communication ......................................................... 6
  ENGL  1113  English Composition I
  ENGL  1213  English Composition II

Mathematics ........................................................................... 3
  MATH  1513  College Algebra
  or a higher numbered math course

U. S. History ................................................................................ 3
Select one course.
  HIST  1043  U.S. History to 1877
  HIST  1053  U.S. History since 1877

American Government ................................................................ 3
  POLSC  1103  American Government & Politics

Science ...................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ............................................................................ 3-4
  BIOL  1004  Biological Concepts w/Lab
  BIOL  1054  Principles of Biology I w/Lab
  BIOL  1013  Current Issues in Biology

Physical Science ........................................................................ 3-4
  ASTRO  1904  Astronomy
  CHEM  1004  General Chemistry w/Lab
  GEOL  1934  Physical Geology w/Lab
  SCI  1513  Conc of Phy Science (may also take w/lab)
  SCI  1501  Concepts of Phy Science Lab
  PHY  1044  Basic Physics I w/Lab
  PHY  1063  General Physics
  or a higher numbered chemistry or physics course

Humanities .................................................................................. 6
  HUM  1103  Introduction to Humanities
  HIST  1033  World History

AND one of the following:
  ART  1223  Art Survey
  COMM  1263  Introduction to Theatre
  LIT  2333  Introduction to Film
  LIT  2413  Introduction to Literature
  MUSIC  1013  Introduction to Music I
  MUSIC  1103  Music and Culture
  PHILO  1453  Introduction to Philosophy

Human, Cultural, & Social Diversity ............................................. 3
  COMM  1313  Introduction to Public Speaking

Computer Proficiency ............................................................... 3
  Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .... to total 40
  ENTRP  1123  Introduction to Business

Accounting Major

Professional Business Core ..........................................................42
  ACCTG  2213  Principles of Financial Accounting
  ACCTG  2313  Principles of Managerial Accounting
  ECONO  2263  Intro to Macroeconomics
  ECONO  2363  Intro to Microeconomics
  ECONO  2463  Business Statistics
  ENTRP  3113  Intro to MIS
  ENTRP  3123  Legal Environment of Business
  ENTRP  3423  Business Communication
  ENTRP  3823  Quantitative Methods in Business
  FINAN  3343  Business Finance
  MGMT  3233  Management
  MNGMT  4923  Strategic Management and Policy
  MKTG  3143  Principles of Marketing
  PSYCH  1003  General Psychology

Required Business course ......................................................... 3
  ENTRP  3223  Commercial Law

Required Accounting Courses ...................................................18
  ACCTG  3313  Intermediate Accounting I
  ACCTG  3323  Intermediate Accounting II
  ACCTG  3213  Accounting Information Systems
  ACCTG  3713  Cost Accounting
  ACCTG  4213  Auditing I
  ACCTG  4313  Income Tax Accounting I

Accounting Electives ................................................................. 9
3000-4000 Level Accounting (ACCTG) Courses

Free Electives ........................................................................... 8

Total ........................................................................................... 120

For the minor program, refer to the Accounting minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ...................................... 120
Minimum credit hours in the liberal arts & sciences .................. 50
Minimum credit hours in upper-division (3000/4000 courses) ... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ................. 30
Minimum Grade Point Average in all coursework .................... 2.00
Minimum Grade Point Average in major .............................. 2.00
# ACCOUNTING MAJOR (Code 202)

**Suggested Course Sequence**

## FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1103 American Government &amp; Politics (3)</td>
</tr>
<tr>
<td>1003 General Psychology (3)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1313 Intro to Public Speaking (3)</td>
</tr>
<tr>
<td>1123 Intro to Business OR GE Elective Course (3)</td>
<td>1043 or 1053 U.S. History (3)</td>
</tr>
<tr>
<td>1113 English Composition I (3)</td>
<td>SCIENCE Course #1 (4)</td>
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<tr>
<td>1513 College Algebra (3)</td>
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## SECOND YEAR

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<tr>
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<tbody>
<tr>
<td>2213 Principles of Financial Accounting (3)</td>
<td>2313 Principles of Managerial Accounting (3)</td>
</tr>
<tr>
<td>2263 Intro to Macroeconomics (3)</td>
<td>2363 Intro to Microeconomics (3)</td>
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<tr>
<td>General Education Courses (8-9**)</td>
<td>2463 Business Statistics (3)</td>
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<td>3113 Intro to MIS (3)</td>
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<td></td>
<td>SCIENCE Course #2 (3-4)</td>
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## THIRD YEAR

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<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>3143 Principles of Marketing (3)</td>
<td>3123 Legal Environment of Bus (3)</td>
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<tr>
<td>3213 Accounting Information Systems (3)</td>
<td>3323 Intermediate Accounting II (3)</td>
</tr>
<tr>
<td>3313 Intermediate Accounting I (3)</td>
<td>3713 Cost Accounting (3)</td>
</tr>
<tr>
<td>3413 Business Communication (3)</td>
<td>3823 Quantitative Methods in Business (3)</td>
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<tr>
<td>4313 Income Tax Accounting I (3)</td>
<td>Free Electives (2)</td>
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## FOURTH YEAR

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<tr>
<td>3233 Management (3)</td>
<td>3323 Commercial Law (3)</td>
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<tr>
<td>3343 Business Finance (3)</td>
<td>4923 Strategic Management &amp; Policy (3)</td>
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<td>4213 Auditing I (3)</td>
<td>Accounting (ACCTG) Electives (6)</td>
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<td>Accounting (ACCTG) Electives (3)</td>
<td>Free Electives (3)</td>
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<td>Free Electives (2)</td>
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<td><strong>Total (14)</strong></td>
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</table>

*First-time entering freshmen need to take 1001 Freshman Orientation

**8 hours of GEs if 2nd Science will be 4 hours; 9 hours of GEs if 2nd Science will be 3 hours.
BACHELOR OF BUSINESS ADMINISTRATION
ENTREPRENEURSHIP (Code No. 217)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ..................................... Min. 40
REQUIRED CORE COURSES ...................................................... 31-35

Written Communication .............................................................. 6
   ENGL 1113 English Composition I
   ENGL 1213 English Composition II

Mathematics .............................................................................. 3
   MATH 1513 College Algebra
   or a higher numbered math course

U. S. History ............................................................................. 3
Select one course.
   HIST 1043 U.S. History to 1877
   HIST 1053 U.S. History since 1877

American Government .................................................................. 3
   POLSC 1103 American Government & Politics

Science ...................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ................................................................. 3-4
   BIOL 1004 Biological Concepts w/Lab
   BIOL 1054 Principles of Biology I w/Lab
   BIOL 1013 Current Issues in Biology

Physical Science ...................................................................... 3-4
   ASTRO 1904 Astronomy
   CHEM 1004 General Chemistry w/Lab
   GEOL 1934 Physical Geology w/Lab
   SCI 1513 Conc of Phy Science (may also take w/lab)
   SCI 1501 Concepts of Phy Science Lab
   PHY 1044 Basic Physics I w/Lab
   PHY 1063 General Physics
   or a higher numbered chemistry or physics course

Humanities .............................................................................. 6
   HUM 1103 Introduction to Humanities
   OR
   HIST 1033 World History

AND one of the following:
   ART 1223 Art Survey
   COMM 1263 Introduction to Theatre
   LIT 2333 Introduction to Film
   LIT 2413 Introduction to Literature
   MUSIC 1013 Introduction to Music I
   MUSIC 1103 Music and Culture
   PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ............................................. 3
   COMM 1313 Introduction to Public Speaking

Computer Proficiency ............................................................... 3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .......... to total 40
   ENTRP 1123 Introduction to Business

---

Entrepreneurship Major

Professional Business Core ...................................................... 42
   ACCTG 2213 Principles of Financial Accounting
   ACCTG 2313 Principles of Managerial Accounting
   ECONO 2263 Intro to Macroeconomics
   ECONO 2363 Intro to Microeconomics
   ECONO 2463 Business Statistics
   ENTRP 3113 Intro to MIS
   ENTRP 3123 Legal Environment of Business
   ENTRP 3423 Business Communication
   ENTRP 3823 Quantitative Methods in Business
   FINAN 3343 Business Finance
   MNGMT 3233 Management
   MNGMT 4923 Strategic Management and Policy
   MRKTG 3143 Principles of Marketing
   PSYCH 1003 General Psychology

Required Courses ...................................................................... 15
One 3000–4000 Level Course selected from each of the following fields in the School of Business:
   Accounting (ACCTG)
   Entrepreneurship (ENTRP)
   Finance (FINAN)
   Management (MNGMT)
   Marketing (MRKTG)

Business Electives ................................................................... 9
   3000–4000 Level Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) OR approved ORGL Courses

Free Electives .......................................................................... 14

Total ....................................................................................... 120

For the minor program, refer to the General Business minor in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ...................................... 120
Minimum credit hours in the liberal arts & sciences .......... 50
Minimum credit hours in upper-division (3000/4000 courses) ......................................................... 40
Minimum credit hours in major completed at SWOSU .............................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ........................................................ 30
Minimum Grade Point Average in all coursework .......... 2.00
Minimum Grade Point Average in major ..................... 2.00
## ENTREPRENEURSHIP MAJOR (Code 217)

**Suggested Course Sequence**

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<td>3123 Legal Environment of Business (3)</td>
<td>3343 Business Finance (3)</td>
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<td>3143 Principles of Marketing (3)</td>
<td>3823 Quantitative Methods in Business (3)</td>
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<td>3233 Management (3)</td>
<td>Electives in Major¹ (9)</td>
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<td>Free Electives (4)</td>
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<tr>
<td>3423 Business Communication (3)</td>
<td>4923 Strategic Management &amp; Policy (3)</td>
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<tr>
<td>4433 Entrepreneurship &amp; New Venture (3)</td>
<td>Business Elective² (3)</td>
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<td>Business Elective² (3)</td>
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</table>

*First-time entering freshmen need to take 1001 Freshman Orientation
**8 hours of GE is if 2nd Science will be 4 hours; 9 hours of GE is if 2nd Science will be 3 hours.
¹ One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, and Marketing.
² 3000-4000 Level School of Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) OR approved ORGL course.
**BACHELOR OF BUSINESS ADMINISTRATION**  
**FINANCE (Code No. 206)**

### GENERAL EDUCATION
Courses that are **required** are in bold type.  
Courses that are **recommended** are in italics.  
**TOTAL GENERAL EDUCATION HOURS** ........................................... Min. 40  
**REQUIRED CORE COURSES** ......................................................... 31-35

**Written Communication** ............................................................. 6  
- **ENGL 1113** English Composition I  
- **ENGL 1213** English Composition II

**Mathematics** ................................................................................. 3  
- **MATH 1513** College Algebra  
or a higher numbered math course

**U. S. History** .................................................................................... 3  
Select one course.  
- **HIST 1043** U.S. History to 1877  
- **HIST 1053** U.S. History since 1877

**American Government** .................................................................... 3  
- **POLSC 1103** American Government & Politics

**Science** ............................................................................................ 7-8  
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.  
**Life Science** ..................................................................................... 3-4  
- **BIOL 1004** Biological Concepts w/Lab  
- **BIOL 1054** Principles of Biology I w/Lab  
- **BIOL 1013** Current Issues in Biology

**Physical Science** ............................................................................. 3-4  
- **ASTRO 1904** Astronomy  
- **CHEM 1004** General Chemistry w/Lab  
- **GEOL 1934** Physical Geology w/Lab  
- **SCI 1513** Conc of Phy Science (may also take w/lab)  
- **SCI 1501** Concepts of Phy Science Lab  
- **PHY 1044** Basic Physics I w/Lab  
- **PHY 1063** General Physics  
or a higher numbered chemistry or physics course

**Humanities** ....................................................................................... 6  
- **HUM 1103** Introduction to Humanities  
- **HIST 1033** World History  

**AND one of the following:**  
- **ART 1223** Art Survey  
- **COMM 1263** Introduction to Theatre  
- **LIT 2333** Introduction to Film  
- **LIT 2413** Introduction to Literature  
- **MUSIC 1013** Introduction to Music I  
- **MUSIC 1103** Music and Culture  
- **PHILO 1453** Introduction to Philosophy

**Human, Cultural, & Social Diversity** .............................................. 3  
- **COMM 1313** Introduction to Public Speaking

**Computer Proficiency** ..................................................................... 3  
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or **COMSC 1023 Computer & Info Access**).

**GE electives** (from at least two different categories) .......................... to total 40  
- **ENTRP 1123** Introduction to Business

**Finance Major**  
- **Professional Business Core** ......................................................... 42  
  - **ACCTG 2213** Principles of Financial Accounting  
  - **ACCTG 2313** Principles of Managerial Accounting  
  - **ECONO 2263** Intro to Macroeconomics  
  - **ECONO 2363** Intro to Microeconomics  
  - **ECONO 2463** Business Statistics  
  - **ENTRP 3113** Intro to MIS  
  - **ENTRP 3423** Business Communication  
  - **ENTRP 3823** Quantitative Methods in Business  
  - **FINAN 3343** Business Finance  
  - **MNGMT 3233** Management  
  - **MNGMT 4923** Strategic Management and Policy  
  - **MRKTG 3143** Principles of Marketing  
  - **PSYCH 1003** General Psychology

**Courses Required** ............................................................................ 12  
- **FINAN 3213** Risk Management  
- **FINAN 3663** Investments  
- **FINAN 4063** Financial Institutions & Markets  
- **FINAN 4263** Financial Management

**Electives** ........................................................................................ 15  
- **3000-4000 Level Accounting (ACCTG) or Finance (FINAN) Courses (12 hours)**  
  - **3000-4000 Level Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) Course approved Computer Science (COMSC), Mathematics (MATH), or ORGL Course (3 hours)**

**Free Electives** .................................................................................. 11

**Total** ............................................................................................. 120

For the minor program, refer to the Finance minor in the Minor Programs of Study.  

**REGULATIONS PERTAINING TO GRADUATION**  
Minimum credit hours for graduation .................................................. 120  
Minimum credit hours in the liberal arts & sciences ................................ 50  
Minimum credit hours in upper-division  
(3000/4000 courses) ................................................................................ 40  
Minimum credit hours (2000/4000 courses) in major completed at SWOSU .................................................. 8  
Minimum credit hours at SWOSU (15 of the last 30) ................................ 30  
Minimum Grade Point Average in all coursework .................................. 2.00  
Minimum Grade Point Average in major ............................................. 2.00
## FINANCE MAJOR (Code 206)

### Suggested Course Sequence

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<td>4923 Strategic Management &amp; Policy (3)</td>
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<td>Accounting (ACCTG) or Finance (FINAN) Elective (3)</td>
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*First-time entering freshmen need to take 1001 Freshman Orientation

**8 hours of GE if 2nd Science will be 4 hours; 9 hours of GE if 2nd Science will be 3 hours.
BACHELOR OF BUSINESS ADMINISTRATION
MANAGEMENT (Code No. 213)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................... Min. 40
REQUIRED CORE COURSES ....................................................... 31-35

Written Communication ......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics ........................................................................... 3
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ........................................................................... 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ............................................................. 3
POLSC 1103 American Government & Politics

Science .................................................................................. 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .......................................................................... 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ..................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1520 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities .............................................................................. 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ......................................... 3
COMM 1313 Introduction to Public Speaking

Computer Proficiency ............................................................. 3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ................. to total 40

Management Major

Professional Business Core ....................................................... 42
ACCTG 2213 Principles of Financial Accounting
ACCTG 2313 Principles of Managerial Accounting
ECONO 2263 Intro to Macroeconomics
ECONO 2363 Intro to Microeconomics
ECONO 2463 Business Statistics
ENTRP 3113 Intro to MIS
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communication
ENTRP 3823 Quantitative Methods in Business
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing
PSYCH 1003 General Psychology

Required Management Courses ............................................. 12
MNGMT 3333 Human Resource Management
MNGMT 3433 Dynamics of Organizational Management
MNGMT 3533 Organizational Behavior
MNGMT 4133 Production/Operation Management

Business Electives ................................................................. 9
3000-4000 Level Management (MNGMT) Courses (6 hours)
3000-4000 Level Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) OR approved ORGL Course (3 hours)

Free Electives ........................................................................ 17

Total ..................................................................................... 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ........................................... 120
Minimum credit hours in the liberal arts & sciences ................... 50
Minimum credit hours in upper-division (3000/4000 courses) .... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ................................................. 8
Minimum credit hours at SWOSU (15 of the last 30) ................. 30
Minimum Grade Point Average in all coursework .................... 2.00
Minimum Grade Point Average in major ................................. 2.00

For the minor program, refer to the Management minor in the Minor Programs of Study.
# MANAGEMENT MAJOR (Code 213)

## Suggested Course Sequence

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<td>4923 Strategic Management &amp; Policy (3)</td>
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</table>

*First-time entering freshmen need to take 1001 Freshman Orientation
**8 hours of GEs if 2nd Science will be 4 hours; 9 hours of GEs if 2nd Science will be 3 hours.
\(^1\) 3000-4000 Level School of Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) OR approved ORGL course
\(^2\) 3000-4000 Level Management (MNGMT)
BACHELOR OF BUSINESS ADMINISTRATION
MARKETING (Code No. 214)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ................................Min. 40
REQUIRED CORE COURSES .......................................................31-35

Written Communication .................................................................6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics ................................................................................3
  MATH 1513 College Algebra
    or a higher numbered math course
U. S. History ...............................................................................3
  Select one course.
  HIST 1043 U. S. History to 1877
  HIST 1053 U. S. History since 1877
American Government .................................................................3
  POLSC 1103 American Government & Politics
Science .......................................................................................7-8
  Select one course from Life Science and one course from Physical Science.
  One Science course must be a lab science.
Life Science ................................................................................3-4
  BIOL 1004 Biological Concepts w/Lab
  BIOL 1054 Principles of Biology I w/Lab
  BIOL 1013 Current Issues in Biology
Physical Science ...........................................................................3-4
  ASTRO 1904 Astronomy
  CHEM 1004 General Chemistry w/Lab
  GEOL 1934 Physical Geology w/Lab
  SCI 1513 Conc of Phy Science (may also take w/lab)
  SCI 1501 Concepts of Phy Science Lab
  PHY 1044 Basic Physics I w/Lab
  PHY 1063 General Physics
    or a higher numbered chemistry or physics course
Humanities ..................................................................................6
  HUM 1103 Introduction to Humanities
    OR
  HIST 1033 World History
AND one of the following:
  ART 1223 Art Survey
  COMM 1263 Introduction to Theatre
  LIT 2333 Introduction to Film
  LIT 2413 Introduction to Literature
  MUSIC 1013 Introduction to Music I
  MUSIC 1103 Music and Culture
  PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ..............................................3
  COMM 1313 Introduction to Public Speaking

Computer Proficiency .................................................................3
  Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or
  COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ................ to total 40
  ENTRP 1123 Introduction to Business

Marketing Major

Professional Business Core .........................................................42
  ACCTG 2213 Principles of Financial Accounting
  ACCTG 2313 Principles of Managerial Accounting
  ECON 2263 Intro to Macroeconomics
  ECON 2363 Intro to Microeconomics
  ECON 2463 Business Statistics
  ENTRP 3113 Intro to MIS
  ENTRP 3123 Legal Environment of Business
  ENTRP 3423 Business Communication
  ENTRP 3823 Quantitative Methods in Business
  FINAN 3343 Business Finance
  MNGMT 3233 Management
  MNGMT 4923 Strategic Management and Policy
  MKTG 3143 Principles of Marketing
  PSYCH 1003 General Psychology

Required Courses .................................................................12
  MKTG 3243 Promotional Strategy
  MKTG 3443 Marketing/Consumer Behavior
  MKTG 4123 Services Marketing
  MKTG 4243 Marketing Research

Business Electives .................................................................9
  3000-4000 Level Marketing (MKTG) Courses (6 hours)
  3000-4000 Level Business (ACCTG, ENTRP, FINAN, MNGMT,
    MKTG) OR approved ORGL Course (3 hours)

Free Electives .................................................................17

Total .................................................................120

For the minor program, refer to the Marketing minor
in the Minor Programs of Study.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ........................................120
Minimum credit hours in the liberal arts & sciences ..................50
Minimum credit hours in upper-division (3000/4000 courses) ...40
Minimum credit hours at SWOSU (15 of the last 30) ...............30
Minimum Grade Point Average in all coursework ..................2.00
Minimum Grade Point Average in major ..............................2.00
MARKETING MAJOR (Code 214)
Suggested Course Sequence

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*First-time entering freshmen need to take 1001 Freshman Orientation

**8 hours of GE s if 2nd Science will be 4 hours; 9 hours of GE s if 2nd Science will be 3 hours.

¹ 3000-4000 Level School of Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) OR approved ORGL course

² 3000-4000 Level Marketing (MRKTG)
BACHELOR OF SCIENCE
COMPUTER SCIENCE (Code No. 110/113)

TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES ......................................................... 31-35

Written Communication .......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics .............................................................................. 3
MATH 1513 College Algebra
or a higher numbered math course

U. S. History .............................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ............................................................... 3
POLSC 1103 American Government & Politics

Science ...................................................................................... 7-8
Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.

Life Science ............................................................................ 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ...................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ............................................................................... 6
HUM 1103 Introduction to Humanities
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey
COM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .......................................... 3
COMM 1313 Introduction to Public Speaking

Computer Proficiency ............................................................... 3
Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam, or
COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) .... to total 40
TECH 1223 Technology & Society

For the minor program, refer to the Computer Science minor in the Minor Programs of Study.

Computer Science Major/Minor

Required Courses ................................................................. 21
COMSC 1033 Computer Science I
COMSC 1053 Computer Science II
COMSC 1103 Introduction to Information Security
COMSC 2043 Discrete Structures
COMSC 3053 Operating Systems
COMSC 3153 Data Comm. & Networks
COMSC 4953 CS/IS Capstone I

Approved Computer Science Electives ................................. 15
1000/2000 Level Computer Science Electives (0-6)
3000/4000 Level Computer Science Electives (9-15)

Choose an option below ...................................................... 18-24

Computer Science Option (Code No. 110)
Computer Science Core ......................................................... 9
COMSC 2413 Data Structures
COMSC 3013 Computer Architecture
COMSC 3133 Software Engineering

Auxiliary Requirements† ....................................................... 9-13
MATH 1834 Calculus I
OR MATH 2823 Applied Calculus
MATH 3433 Statistics I
OR MATH 3413 Statistical Methods

Any 3 or 4 hour Physics course OR 6 Hours from:
TECH 2813 Digital Devices
TECH 3143 Technical Presentations
TECH 3833 Communication Electronics
TECH 3843 Telecommunication
TECH 4813 Networks and Distributed Controls
TECH 4833 Microprocessors and Embedded Controls

† Auxiliary Requirements may have prerequisite course
requirements. Please check the SWOSU Course Descriptions
prior to enrollment.

Information Systems Option (Code No. 113)
Information Science Core ....................................................... 12
COMSC 2603 Network Security
COMSC 3403 Database Systems
COMSC 3913 Web Development
COMSC 4513 Business Intelligence

Auxiliary Requirements† ....................................................... 12
ENTRP 3113 Intro to MIS
ECON 2463 Business Statistics
OR MATH 3433 Statistics I
OR MATH 3413 Statistical Methods

ENTRP 3023 Quantitative Methods in Business
TECH 3143 Technical Presentations

† Auxiliary Requirements may have prerequisite course
requirements. Please check the SWOSU Course Descriptions
prior to enrollment.

Electives to bring total to ................................................... 120

TOTAL HOURS ........................................................................ 120

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .................................. 120
Minimum credit hours in the liberal arts & sciences ............ 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .................. 12
Minimum credit hours at SWOSU (15 of the last 30) .......... 30
Minimum Grade Point Average in all coursework ............ 2.00
Minimum Grade Point Average in major ......................... 2.00

201
# COMPUTER SCIENCE MAJOR

## Computer Science Option (Code 110)

## Suggested Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1053 Computer Science II (3)</td>
</tr>
<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1103 Intro to Info Security (3)</td>
</tr>
<tr>
<td>1033 Computer Science I (3)</td>
<td>1103 American Government &amp; Politics (3)</td>
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<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
</tr>
<tr>
<td>1223 Technology &amp; Society (3)</td>
<td>SCIENCE Course #1 (4)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
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<tr>
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### SECOND YEAR

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<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>1043 or 1053 U.S. History (3)</td>
<td>3013 Computer Architecture (3)</td>
</tr>
<tr>
<td>1313 Intro to Public Speaking (3)</td>
<td>Computer Science (COMSC) Elective*** (3)</td>
</tr>
<tr>
<td>1834 Calculus I OR 2823 Applied Calculus (3-4)</td>
<td>Free Electives (6)</td>
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<tr>
<td>2043 Discrete Structures (3)</td>
<td>General Education Course (3)</td>
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<tr>
<td>2413 Data Structures (3)</td>
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<td>Total (15-16)</td>
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### THIRD YEAR

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<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>3053 Operating Systems (3)</td>
<td>3153 Data Communication &amp; Networks (3)</td>
</tr>
<tr>
<td>3433 Statistics I OR 3413 Statistical Methods (3)</td>
<td>Computer Science (COMSC) Electives*** (6)</td>
</tr>
<tr>
<td>Computer Science (COMSC) Elective*** (3)</td>
<td>Free Electives (3)</td>
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<tr>
<td>Free Electives (3)</td>
<td>SCIENCE Course #2 (3-4)</td>
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<tr>
<td>General Education Course (3)</td>
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<td>Total (15)</td>
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### FOURTH YEAR

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<tbody>
<tr>
<td>Auxiliary COMSC Requirement (3-4)</td>
<td>3133 Software Engineering (3)</td>
</tr>
<tr>
<td>Computer Science (COMSC) Elective*** (3)</td>
<td>4953 CS/IS Capstone (3)</td>
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<tr>
<td>Free Electives (6)</td>
<td>Auxiliary COMSC Requirement (3)</td>
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<td>General Education Course (2-3**)</td>
<td>Free Electives (3-7)</td>
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<td>Total (12-16)</td>
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</tbody>
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* First time entering freshmen need to take 1001 Freshman Orientation

**2 hours of GEs if 2nd Science was 4 hours; 3 hours of GEs if 2nd Science was 3 hours.

*** At least 9 credit hours 3000-4000 level with Advisor Approval.
# COMPUTER SCIENCE MAJOR
## Information Systems Option (Code 113)
### Suggested Course Sequence

<table>
<thead>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1053 Computer Science II (3)</td>
</tr>
<tr>
<td>1023 Computers &amp; Info Access (3)</td>
<td>1103 American Government &amp; Politics (3)</td>
</tr>
<tr>
<td>1033 Computer Science I (3)</td>
<td>1103 Intro to Info Security (3)</td>
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<tr>
<td>1113 English Composition I (3)</td>
<td>1213 English Composition II (3)</td>
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<tr>
<td>1223 Technology &amp; Society (3)</td>
<td>SCIENCE Course #1 (4)</td>
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<tr>
<td>1513 College Algebra (3)</td>
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<td>1043 or 1053 U.S. History (3)</td>
<td>2603 Network Security (3)</td>
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<td>1313 Intro to Public Speaking (3)</td>
<td>3113 Intro to MIS (3)</td>
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<tr>
<td>2043 Discrete Structures (3)</td>
<td>Computer Science (COMSC) Elective*** (3)</td>
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<tr>
<td>Computer Science (COMSC) Electives*** (6)</td>
<td>Free Electives (6)</td>
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<tr>
<td>3053 Operating Systems (3)</td>
<td>3153 Data Communication &amp; Networks (3)</td>
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<tr>
<td>3913 Web Development (3)</td>
<td>3403 Database Systems (3)</td>
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<tr>
<td>ECONO or MATH Statistics (3)</td>
<td>4513 Business Intelligence (3)</td>
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<tr>
<td>Free Electives (3)</td>
<td>SCIENCE Course #2 (3-4)</td>
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<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>3823 Quantitative Methods in Business (3)</td>
<td>3143 Technical Presentations (3)</td>
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<tr>
<td>Computer Science (COMSC) Electives*** (6)</td>
<td>4953 CS/IS Capstone (3)</td>
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<tr>
<td>Free Electives (3)</td>
<td>Free Electives (7)</td>
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*** At least 9 credit hours 3000-4000 level with Advisor Approval.
SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF ENGINEERING TECHNOLOGY

FACULTY
Brad Bryant, Chair
Technology Stone Building, Room 106
Phone: (580) 774-3162
E-mail: brad.bryant@swosu.edu
http://www.swosu.edu/tech/

Cindi Albrightson..................................TBB 204...............cindi.albrightson@swosu.edu........................................(580) 774-3165
Nathan Brooks..................................TSB 109...............nathan.brooks@swosu.edu........................................(580) 774-3164
Jack Li.............................................TBB 208..............jack.li@swosu.edu........................................(580) 774-3711

DEPARTMENTAL GOALS
The Department of Engineering Technology provides students the opportunity to prepare for professional opportunities in industry and education.

Particular areas of preparation attempt to address:
1. The delivery of broad-based technical programs that allow the graduate to accommodate new and advancing technologies.
2. The preparation of an adequate work force to meet area state and regional demands for technology in industry and education.
3. The maintenance of quality curriculum content, faculty, equipment and facilities to meet the standards set by appropriate state and national accrediting agencies.

PROGRAMS OF STUDY
Majors: B.S. Engineering Technology
• Computer Electronics Engineer. Tech. Option
• Environmental Engineering Tech. Option
• Manufacturing Engineering Tech. Option

B.S. Industrial Technology
• Electronics Technology Option
• Manufacturing Technology Option

Minors: Computer Technology
Electronics
General Technology

GENERAL INFORMATION
Technology curricula allows for a variety of exciting opportunities in the areas of Engineering Technology. Manufacturing Engineering Technology is currently accredited by the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET), 415 North Charles Street, Baltimore, MD 21201 – Telephone: (410) 347-7700. Industrial Technology is currently accredited by the Association of Technology, Management, and Applied Engineering (ATMAE), 275 N. York Street, Suite 401, Elmhurst, IL 60126 – Telephone: (630) 443-4514. Each major is capped by a research project or realistic internship experience to facilitate the transition from school to the actual job scene.

Career opportunities are numerous in all technology fields and command competitive salaries. Examples of recent graduate placements are manufacturing engineering technologists, quality assurance managers, plant and production supervisors, production analysts, planners and schedulers, and estimators.

Within the Department of Engineering Technology there are several student organizations which promote professional development and social activities. These include student chapters of the Society of Manufacturing Engineers (SME), the Society of Women Engineers (SWE) and the Association of Technology, Management, and Applied Engineering (ATMAE). The clubs meet on a regular basis and organize activities such as industrial plant tours, robotics competitions, homecoming float construction, and educational conferences.

For more information visit our web site at:
http://www.swosu.edu/tech/
BACHELOR OF SCIENCE
IN ENGINEERING TECHNOLOGY (Code No. 131)

Engineering Technology Major/Minor

The Engineering Technology major/minor includes 56 hours of core requirements, a selected technical specialty, and electives approved by the department to total a minimum of 128 hours. The Manufacturing Engineering Technology option is accredited by the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET), 415 North Charles Street, Baltimore, MD 21201 – Telephone: (410) 347-7700.

Core Requirements.........................................................................................................................56

- COMSC 1433 Visual Basic Programming
- MATH 1613 College Trigonometry
- MATH 2823 Applied Calculus
- MATH 3413 Statistical Methods
- OR ECONO 2463 Business Statistics
- MFET 4020 Prof Certification Requirements
- PHY 1044 Basic Physics I w/Lab
- TECH 1101 Introduction to Technology
- TECH 1203 Engineering Drafting
- TECH 1713 Basic Electrical Science
- TECH 2413 Non-Metallic Materials & Processes
- TECH 2513 Fabrication Processes I
- TECH 3113 Industrial Safety
- TECH 3143 Technical Presentations
- TECH 3263 Machine Drafting I
- TECH 3463 Manufacturing Operations I
- TECH 3613 Power Systems
- TECH 4243 3D CAD - SolidWorks
- TECH 4373 Economic Decision Analysis
- TECH 4433 Quality Control
- TECH 4493 Manufacturing Operations II

Majors must select one specialization from the following technical areas:

Computer Electronics Engineering Technology Option..................33

Electronics Requirements.............................................................................................................21

- TECH 2713 Fundamental Electronics
- TECH 2813 Digital Devices
- TECH 3833 Communications Electronics
- TECH 3843 Telecommunications
- TECH 4223 Electronics Capstone
- TECH 4813 Networks & Distributed Controls
- TECH 4843 Industrial Controls

Electronics Electives......................................................................................................................3

- TECH 3823 Industrial Electronics
- TECH 4833 Microprocessors and Embedded Controls

Computer Science Required.................................................................................................6

- COMSC 1033 Computer Science I
- COMSC 1053 Computer Science II

Computer Science Electives........................................................................................................3

Computer Science Electives (by advisement)

Environmental Engineering Technology Option

Environmental Requirements.................................................................33

- BIOL 4355 Microbiology
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- CHEM 2114 Organic/Biochemistry
- CHEM 4254 Industrial Chem & Environment
- GEOL 1934 Physical Geology
- TECH 3173 Environmental Regulations
- TECH 3413 Production Processes
Manufacturing Engineering Technology Option

Manufacturing Requirements ........................................... 32
- MFET 3183 Statics & Strengths
- MFET 3433 Automation/Robotics
- MFET 4443 Material Handling/Facility Planning
- MFET 4753 Senior Capstone
- TECH 2713 Fundamental Electronics
- TECH 3413 Production Processes
- TECH 3513 Materials Testing & Analysis
- TECH 3523 Fabrication Processes II
- TECH 4454 Computer Aided Manuf (CAM)
- TECH 4514 Machine Tool Processes

TOTAL HOURS ........................................................................... 128-129

Program Educational Objectives

Several years after graduation, Engineering Technology, Manufacturing Engineering Technology Option graduates will:

1. Be employed in a field related to their discipline where they are able to utilize their technical knowledge and skills.
2. Be able to communicate effectively in multiple ways and formats, such as oral, written and graphical.
3. Possess the ability to solve basic problems and formulate strategies using critical thinking to improve technical and management processes.
4. Be a contributing member of the team with the skills necessary to move into leadership roles.
5. Continue to grow as an employee by remaining current in their field and aware of new technologies through job experience, continuous learning, and/or professional organizations.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation .................. 128
Minimum credit hours in the liberal arts & sciences ..... 55
Minimum credit hours in upper-division
(3000/4000 courses) ................................................... 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU .................. 8
Minimum credit hours at SWOSU (15 of the last 30) ... 30
Minimum Grade Point Average in all coursework........ 2.00
Minimum Grade Point Average in major ............... 2.00

Engineering Technology is the specialty of applied engineering that emphasizes the production methods of industry. Specific curricular areas include:

1. Engineering Science
2. Computer Applications/Automation
3. Operations Management
4. Manufacturing Processes
5. Product Design
6. Environmental Health and Safety
# Engineering Technology (Code 131) Computer Electronics Engineering Technology Option  
## Suggested Course Sequence#

<table>
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<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1023 Comp/Info Access (3)</td>
</tr>
<tr>
<td>1101 Intro to Technology (1)</td>
<td>1213 English Comp II (3)</td>
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<td>1113 English Comp I (3)</td>
<td>1433 Visual Basic Program (3)</td>
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<td>1203 Engineering Drafting (3)</td>
<td>1613 College Trig (3)</td>
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<td>1223 Technology &amp; Society (3)</td>
<td>2713 Fundamental Elec (3)</td>
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<tr>
<td>1513 College Algebra (3)</td>
<td>3263 Machine Drafting (3)</td>
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<td>1713 Basic Elec Science (3)</td>
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<tr>
<td>1004 Biological Concepts (4)</td>
<td>1004 General Chemistry (4)</td>
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<tr>
<td>1033 Computer Science I (3)</td>
<td>1053 Computer Science II (3)</td>
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<tr>
<td>2823 Applied Calculus (3)</td>
<td>2413 Non-Metal Materials &amp; Proc (3)</td>
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<td>3833 Communication Elec (3)</td>
<td>2513 Fabrication Proc I (3)</td>
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<tr>
<td>Gen Ed Humanities Course (3)</td>
<td>3843 Telecommunications (3)</td>
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<td>English Proficiency Exam **</td>
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<tr>
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<tr>
<td>1044 Basic Physics I (4)</td>
<td>1043 OR 1053 US History (3)</td>
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<td>3143 Technical Presentations (3)</td>
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<td>3463 Manufacturing Ops I (3)</td>
<td>3613 Power Systems (3)</td>
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<td>4843 Industrial Controls (3)</td>
<td>4493 Manufacturing Ops II (3)</td>
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<tr>
<td>1103 American Gov't (3)</td>
<td>3113 Industrial Safety (3)</td>
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<tr>
<td>2463 Business Stats OR 3413 Stat Methods (3)</td>
<td>4020 Prof. Cert. Req. (0)</td>
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<td>4433 Quality Control (3)</td>
<td>4223 Electronics Capstone (3)</td>
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<td>4813 Networks &amp; Dist Controls (3)</td>
<td>4243 3D CAD – Solidworks (3)</td>
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<tr>
<td>COMSC Elective (3)</td>
<td>4373 Econ Decision Analy (3)</td>
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<td><strong>Total (15)</strong></td>
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</table>

# Overall Total = 131 (due to flux in GE electives)

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section
## Engineering Technology (Code 131)
### Environmental Engineering Technology Option
#### Suggested Course Sequence#

<table>
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<td>1004 General Chemistry (4)</td>
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<tr>
<td>1101 Intro to Technology (1)</td>
<td>1103 American Gov't (3)</td>
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<td>1113 English Comp I (3)</td>
<td>1213 English Comp II (3)</td>
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<td>1203 Engineering Drafting (3)</td>
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<tr>
<td>1043 OR 1053 US History (3)</td>
<td>1203 General Chem I (3)</td>
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<td>1044 Basic Physics I (4)</td>
<td>1252 General Chem I Lab (2)</td>
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<td>2413 Non-Metal Materials &amp; Proc (3)</td>
<td>1713 Basic Elec Science (3)</td>
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<tr>
<td>2823 Applied Calculus (3)</td>
<td>2513 Fabrication Proc I (3)</td>
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<tr>
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<td>3173 Environmental Regs (3)</td>
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<td>Gen Ed Humanities Course (3)</td>
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<td>1934 Physical Geology (4)</td>
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<td>1352 General Chem II Lab (2)</td>
<td>2114 Organic/Biochem (4)</td>
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<td>1433 Visual Basic Prog (3)</td>
<td>3413 Production Processes (3)</td>
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<td>2463 Business Stats OR 3413 Stat Methods (3)</td>
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<td>GE Elective (3)</td>
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<td>4243 3D CAD – Solidworks (3)</td>
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# Overall Total = 131 (due to flux in GE electives)

*First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section
## Engineering Technology (131)
### Manufacturing Engineering Technology Option
#### Suggested Course Sequence#

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<td>2413 Non-Metal Materials &amp; Proc (3)</td>
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<td>2823 Applied Calculus (3)</td>
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<td>4493 Manufacturing Ops II (3)</td>
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<td>3143 Technical Presentations (3)</td>
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<td>3433 Automation/Robotics (3)</td>
<td>3613 Power Systems (3)</td>
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<td>4433 Quality Control (3)</td>
<td>4020 Prof Cert Req (0)</td>
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<td>4514 Machine Tool Proc (4)</td>
<td>4373 Econ Decision Analy (3)</td>
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<td>4753 Senior Capstone (3)</td>
<td>4443 Material Hand/Facility Plan (3)</td>
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<td>4454 Comp Aided Manuf (CAM) (4)</td>
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# Overall Total = 131 (due to flux in GE electives)

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section
BACHELOR OF SCIENCE
INDUSTRIAL TECHNOLOGY (Code No. 135)

Industrial Technology Major/Minor

The Industrial Technology major/minor includes a 44-hour core requirement, 12 hours of management, 24 hours from a selected technology, and a balance of 3000/4000 electives approved by the department to total 120 hours. Industrial Technology is currently accredited by the Association of Technology, Management, and Applied Engineering (ATMAE), 275 N. York Street, Suite 401, Elmhurst, IL 60126 - Telephone: (630) 493-4514.

Core Requirements.........................................................44
CHEM 1004 General Chemistry
MATH 3413 Statistical Methods
OR ECONO 2463 Business Statistics
ECONO 2363 Introduction to Microeconomics
MFET 4020 Professional Certification Requirements
TECH 1101 Introduction to Technology
TECH 1203 Engineering Drafting
TECH 2413 Non-Metallic Materials & Processes
TECH 1713 Basic Electrical Science
TECH 2513 Fabrication Processes I
TECH 3113 Industrial Safety
TECH 3143 Technical Presentations
TECH 3463 Manufacturing Operations I
TECH 3613 Power Systems
TECH 4123 Industrial Supervision
TECH 4243 3D CAD - Solidworks
TECH 4433 Quality Control

Management electives (by advisement)................................12
ACCTG 2213 Principles of Financial Accounting
ACCTG 2313 Principles of Managerial Accounting
COMSC 1433 Visual Basic Programming
ECONO 2263 Introduction to Macroeconomics
ENTRP 3123 Legal Environment of Business
MATH 3433 Statistics I
MNGMT 3233 Management
MNGMT 3333 Human Resource Management
MRKTG 3143 Principles of Marketing
TECH 3173 Environmental Regulations
TECH 4443 Material Handling and Facility Planning
TECH 4493 Manufacturing Operations II
TECH 4900 Orientation to Industrial Internship
TECH 4916 Industrial Internship

 Majors must select either the Electronics Technology Option or the Manufacturing Technology Option:

Electronics Technology Option ........................................... 24
Required Courses.........................................................18
TECH 2713 Fundamental Electronics
TECH 2813 Digital Devices
TECH 3833 Communications Electronics
TECH 3843 Telecommunication
TECH 4223 Electronics Capstone
TECH 4843 Industrial Controls

Approved Electives ...................................................... 6

(CONTINUED ON NEXT PAGE)
Manufacturing Technology Option ........................................ 24

Required Courses ......................................................... 20
- TECH 3263 Machine Drafting I
- TECH 3413 Production Processes
- TECH 3513 Materials Testing & Analysis
- TECH 3523 Fabrication Processes II
- TECH 4454 Computer Aided Manuf (CAM)
- TECH 4514 Machine Tool Processes

Approved Electives ...................................................... 4

Electives (by advisement) to total .................................... 120

Industrial Technology articulates industrial management with a specialization in electronics technology and manufacturing technology. Technical concepts and experiences are supported with courses in applied mathematics, science, and management. A supervised industrial internship completes the program. Specific curricular emphases include:

1. The analysis of industrial materials.
2. The identification of production processes.
3. An examination of the concepts of industrial management and human relations.
4. The solving of technical problems found in industry.
5. The development of skills relating to a specific area of specialization.

The mission of the Industrial Technology Program is to provide students the education and experience necessary to successfully perform the functions of an industrial manager.

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation .................................. 120
Minimum credit hours in the liberal arts & sciences ................... 55
Minimum credit hours in upper-division (3000/4000 courses) ................. 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ...... 8
Minimum credit hours at SWOSU (15 of the last 30) ..................... 30
Minimum Grade Point Average in all coursework ...................... 2.00
Minimum Grade Point Average in major .............................. 2.00

2000-12 Extra institutional Learning Credit may be awarded for current professional licenses and certificates that have been evaluated and approved for credit by the Technology Department. Educational credit recommended by the American Council on Education (ACE), ACE/PONSI, and/or completion of a special skills examination may also be evaluated for credit.
(1-12 credits lower division maximum 12)

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(1-12 credits upper division maximum 12)
**Industrial Technology (Code 135)**  
**Electronics Technology Option**  
**Suggested Course Sequence #**

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<td>1043 OR 1053 US History (3)</td>
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# Overall Total = 122 (due to flux in GE electives)  
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** If applicable. See English Proficiency Program under the General Academic Information Section
# Industrial Technology (Code 135)
## Manufacturing Technology Option
### Suggested Course Sequence#

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* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section
REACH HIGHER DEGREE COMPLETION PROGRAM

FACULTY
Patsy Parker, Program Coordinator
Stafford Building, Room 335
Phone: (580) 774-3284
E-mail: patsy.parker@swosu.edu

Amanda Evert..................................................STF 353..................................................amanda.evert@swosu.edu
Lisa Friesen..................................................STF 354..................................................lisa.friesen@swosu.edu
Rita Hays......................................................STF 347..................................................rita.hays@swosu.edu

(850) 774-3040 (850) 774-6025 (850) 774-3020

To keep pace with a changing world, more adults are going back to college to finish their degree. At the same time, more adults are facing hectic schedules with work, family and other commitments. It’s difficult to achieve educational goals while keeping your life in balance.

By building on past college credit and a flexible eight-week schedule, you can complete a bachelor’s degree in organizational leadership within two years. Convenient, evening class times and online courses also fit into your busy life.

Because this program is sponsored by Oklahoma’s public universities, tuition is reasonable and financial aid is available.

Another benefit of attending one of Oklahoma’s public universities is the credibility of your degree. You’ll study with leading faculty in our state who are full-time professors on campus. You’ll learn from curriculum that thousands of other Oklahomans already have studied. And you’ll be proud to say your degree comes from a leading university in the state.

This innovative program is possible because of a collaborative effort of Oklahoma’s public universities. The participating universities are creating a statewide network of courses designed to enhance your educational goals. Our curriculum focuses on courses in management, business, communications, leadership, ethics and data analysis. It concludes with a capstone course that ties it all together.

Let us help you reach your goals, get a better job or earn more income. Most of all, we want to help you achieve your dream of finishing college. For further information, call 800.951.0768.

Program Objectives
Objective 1: “The student will acquire a general knowledge of eight core content areas.”

Objective 2: “The student will enhance their global thinking, critical thinking, communication skills, problem solving, quantitative and analysis skills, and technological innovation skills.”

Admissions requirements for Reach Higher are as follows:

- Have a minimum of 72 credit hours.
- Must be 21 years of age.
- Have a minimum of 2.0 graduation/retention GPA in past college course work.
- Have completed general education requirements as defined by the home institution admitting the student. A provisional admission status may be used for students who do not yet meet this requirement.
- Satisfy all institutional requirements for completion of remedial course work.
- Once a student is approved for admission, the applicant will be notified in writing and assigned an advisor or contact person. The student should then complete an individual degree plan with the advisor at the home institution.

Steps for admission
- Select a home institution (SWOSU).
- Complete an Application for Admission to the program (http://www.okhighered.org/reachhigher/index.shtml).
- Furnish the home institution with official transcripts from all previous colleges and universities.
- Transcripts are reviewed for course equivalency credit.
- Letter of acceptance will be sent by the home institution once all documents mentioned above are received.
- Home institution will inform student by letter of the contact person for academic advisement and enrollment.
- Payment arrangements must be finalized before classes begin.
- For additional information about the program, call Oklahoma’s Degree Completion Program office at 800.951.0768.

Degree Requirements
General Education: 40-45 credit hours minimum
Major/Minor: 42 credit hours
(Students Core Courses: 27-30 credit hours; Institution-Focused Courses: 12-15 credit hours)*
Professional Elective and Free Electives: 37-42 credit hours**
Grand Total: 124 credit hours

* These courses will be defined by each individual institution.
** Courses could include prior academic credit on transcript and/or up to 30 hours of extra-institutional credit through CLEP, DANTES, military or prior learning assessment (maximum of 15 hours in this category).

- 2.0 grade point average for graduation/retention.
- 60 credit hours at a four-year institution, excluding physical education activity courses.
- 40 hours of upper-division course work (3000 and 4000 level), excluding physical education activity courses.
- 30 hours of residency at the degree granting (home) institution.
- At least 15 of the final 30 hours or half the major from the institution granting the degree.
- English proficiency as defined by the institution granting the degree.
- Computer proficiency as defined by the institution granting the degree.

Programs of Study
Major: B.S. Organizational Leadership

For more information, visit our web site at:
http://www.swosu.edu
BACHELOR OF SCIENCE
ORGANIZATIONAL LEADERSHIP (Code No. 210)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS .................................. Min. 40
REQUIRED CORE COURSES ...................................................... 31-35

Written Communication .......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics ............................................................................. 3
Select one course.
MATH 1143 Mathematical Concepts
MATH 1153 Mathematical Applications
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ............................................................................... 3
Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877

American Government ................................................................. 3
POLSC 1103 American Government & Politics

Science ..................................................................................... 7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science .............................................................................. 3-4
BIOL 1004 Biological Concepts w/Lab
BIOL 1054 Principles of Biology I w/Lab
BIOL 1013 Current Issues in Biology

Physical Science ......................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities .................................................................................. 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ............................................. 3-4
Select one course.
ASL 2163 American Sign Language
CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)
COMM 1313 Introduction to Public Speaking
ECONO 2263 Intro to Macroeconomics
ECONO 2363 Intro to Microeconomics
GEOG 1103 World Cultural Geography
ITAL 1004 Elementary Italian I
KINES 1133 Wellness Concepts & Exercise Applications
LATIN 1054 Elementary Latin I (or higher number)
PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
SPAN 1054 Elementary Spanish I (or higher number)
TECH 1223 Technology and Society

Computer Proficiency ............................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least two different categories) ............. to total 40

Organizational Leadership Major

Core Requirements ...................................................................... 27-30
ORGL 3113 Found of Org Leadership & Personal Develop
ORGL 3223 Professional Communication
ORGL 3333 Data Analysis & Interpretation
ORGL 3443 Survey of Fiscal Management
ORGL 4113 Ethics & Organizations
ORGL 4223 The Individual, the Org, and Society
ORGL 4333 Leading & Managing
ORGL 4443 Markets & Stakeholders
ORGL 4553 Capstone
ORGL 4993 Professional Internship (Optional)

Area of Focus† ........................................................................... 12-15
ENTRP 3113 Intro to MIS
ENTRP 3123 Legal Environment of Business
MNGMT 3333 Human Resource Management
MNGMT 4183 Sales Skills & Management
MNGMT 4323 Project Management
MRKTG 4183 Sales Skills & Management
MRKTG 4643 International Marketing

† Exceptions can be made regarding the options taken within the Area of Focus.

Professional Elective and Free Electives ................................... 35-41**

TOTAL HOURS ........................................................................... 124

** Courses could include prior academic credit on transcript and/or up to 30 hours of extra-institutional credit through CLEP, DANTES, military or prior learning assessment (maximum of 15 hours in this category).

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ......................................... 124
Minimum credit hours in the liberal arts & sciences .................. 55
Minimum credit hours in upper-division
(3000/4000 courses) ................................................................. 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU .................................................. 12
Minimum credit hours at SWOSU (15 of the last 30) ............... 30
Minimum Grade Point Average in all coursework ................. 2.00
Minimum Grade Point Average in major .............................. 2.00
Degrees Offered in the
COLLEGE OF PROFESSIONAL
AND GRADUATE STUDIES

SCHOOL OF NURSING AND
ALLIED HEALTH SCIENCES

Dr. Chad Kinder, Dean
Dr. Marcy Tanner, Associate Dean

ALLIED HEALTH SCIENCES

HEALTH CARE ADMINISTRATION MAJOR
Health Care Administration - B.S.
Health Care Administration Minor

HEALTH INFORMATION MANAGEMENT PROGRAM
Health Information Management - B.S.
Health Data Analytics Minor

HEALTH SCIENCE MAJOR
Health Science - B.S.
Applied Science Health Science – B.S.
Emergency Medical Services Minor
Health Science Minor
Health Science Minor for Sports Medicine

PHYSICAL THERAPIST ASSISTANT PROGRAM
Associate of Applied Science in PTA – AAS

OCCUPATIONAL THERAPY ASSISTANT PROGRAM
Associate of Applied Science in OTA - AAS

NURSING
B.S.N.
R.N. to B.S.N.
M.S.N.
Nursing/Business-M.S.N./M.B.A.
SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES
ALLIED HEALTH SCIENCES (Overview)

FACULTY
Jessica Young, Coordinator
Science Building, Room 206 B
Phone: (580) 774-3079
E-mail: jessica.young@swosu.edu
http://www.swosu.edu/alliedhealth/

Jy Bass ........................................ HPE 50 .......................................................... (580) 774-3041
Aimee Carter .......................... CKTC 321 (Caddo Kiowa) ........... aimee.carter@swosu.edu (405) 643-3266
Roxann Clifton ................. SCB 315 (Sayre) .................. roxann.clifton@swosu.edu (580) 774-2113
Michele Ervin ............... SCB 301 (Sayre) .................. michele.ervin@swosu.edu (580) 774-2110
Theron Grimes .............. CKTC 322 (Caddo Kiowa) ............. theron.grimes@swosu.edu (405) 643-3267
Malissa Guthrie ........ CKTC 343 (Caddo Kiowa) ........... malissa.guthrie@swosu.edu (405) 643-3213
Sharon Lawrence ........ SCI 114 D .................. sharon.lawrence@swosu.edu (580) 774-6917
Dana Lloyd ..................... SCI 202 B .................. dana.lloyd@swosu.edu (580) 774-7149
Mikki Mayfield ........ CKTC 340 (Caddo Kiowa) ........... mikki.mayfield@swosu.edu (405) 643-3210
Jess Parker .............. SMH 134 (Sayre) .................. jess.parker@swosu.edu (580) 774-2158
Anne Pate ................ SCI 114 C .................. anne.pate@swosu.edu (580) 774-6332
Marcy Pye .................. SCI 202 C .................. marcy.pye@swosu.edu (580) 774-7103
Sheana Thompson .......... SMH 129 (Sayre) .................. sheana.thompson@swosu.edu (580) 774-2155
Allison Willis ........... CKTC 341 (Caddo Kiowa) ........... allison.willis@swosu.edu (405) 643-3595

SCHOOL GOALS
The primary goals of the School of Nursing and Allied Health Sciences at Southwestern Oklahoma State University are to:

1. Provide college-based curriculum integrated with hands-on experience at health care institutions.
2. Provide students with the necessary knowledge to function at an acceptable level in a health care service organization.
3. Provide programs that develop entry level competencies as prescribed by national accrediting agencies.
4. Prepare students to pass professional licensure and certification exams.
5. Provide pre-professional students guidance and counseling for selected professional programs.

PROGRAMS OF STUDY

Majors: Bachelor of Applied Science in Health Science (Code 553)
Dr. Sharon Lawrence - Advisor

B.S. Health Sciences (Code 553)
Professional Programs (Consult advisor in one of the following areas concerning requirements and application information.)

- Pre-Chiropractic
- Pre-Dentistry
- Pre-Medicine
- Pre-Occupational Therapy
- Pre-Occupational Therapy Assistant
  Dr. Anne Pate - Advisor

Pre-Occupational Therapy Assistant
Pre-Physical Therapist Assistant
Dr. Sharon Lawrence - PTA & OTA Program Coordinator, Advisor

Minors: Bachelor of Applied Science in Health Science

Pre-Radiography
Pre-Sonography
Jessica Young - Advisor
Shirley Venable - Advisor

B.S. Health Care Administration (Code 550)
Marcy Pye - Advisor

B.S. Health Information Management (Code 551)
Dana Lloyd - Director, Advisor
Marcy Pye - Assistant Director

Masters: M.S. Healthcare Informatics & Information Management (Code 848)
Dana Lloyd, Advisor

Program goals and objectives are: prepare students to develop the skills needed by practicing professionals in the Health Information Management field and provide assurance that graduates of the program demonstrate the master-level competencies published by CAHIIM. Assessment measures are: Curriculum-embedded assessment; maintain a minimum GPA of 3.0; Completion of thesis or Professional Project; Department alumni and student satisfaction surveys. Any students with an undergraduate degree may choose this Master’s degree option.
Health Care Administration (Code 550)
Health Care Administration students are trained to function as managers or administrators in health care facilities, rehabilitation clinics, group practice facilities, welfare agencies, and health departments, as well as educational and research programs. The major involves a combination of basic life sciences, healthcare operations, and business management. Students should have good interpersonal relation skills, interest in management and business, and a desire to work with health professionals in the health care system. Due to similar requirements for the health information management and business administration-management degrees, it is possible for the health care administration student to obtain a double major with the addition of 6-12 courses. NOTE: This does not constitute a double degree. Students who desire a double degree would need an additional minor.

Health Information Management (Code 551)
The Health Information Management program is an online integrated 2 + 2 program involving two years of pre-professional curriculum and two years of professional courses. All professional program courses as well as courses for the required minor in Health Care Administration are online. Many pre-professional and GE courses are also available in an online format. Students are trained in the practice of acquiring, analyzing, and protecting digital and traditional medical information vital to providing quality patient care. Students are trained in health information science, data analytics, management, medical science, computerization applications and systems design, as well as specific procedures such as medical coding. HIM professionals are highly trained in the latest information management technology applications and understand the workflow in any healthcare provider organization from large hospital systems to the private physician practice. The goal of this program is to provide a quality program in HIM supported by a comprehensive curriculum based on continuous assessment, modification and reanalysis. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

Health Sciences Major (Code 553)
The Health Science major is a 4 year baccalaureate degree option for individuals needing pre-professional hours or a pre-professional degree to further their education in a professional health program at a comprehensive university, medical school or another campus such as:

- Audiology
- Chiropractor
- College of Dentistry
- Comm. Sci. & Disorders
- Dental Hygiene
- Medical School
- Nutritional Sciences
- Occupational Therapy
- Optometry
- Physical Therapy
- Physician Associate
- Radiologic Technology

Students who are interested in pre-professional programs in healthcare are not limited to the aforementioned areas, but can include any area in healthcare. A goal of this degree is to provide student’s a bachelor’s degree track while completing pre-requisites and applying for technical programs at both the Associate Degree level (such as the Physical Therapist Assistant, Occupational Therapy Assistant, Radiological Technician, and Medical Laboratory Technician) and at the Undergraduate level. Individuals who decide not to further their education at the Master’s or Doctorate level will find the Bachelor of Science in Health Sciences a valuable degree for seeking employment in a wide variety of health care settings.

Bachelor of Applied Science in Health Science (Code 555)
The Bachelor of Applied Science in Health Science is offered as a completion program that allows students with an Associate of Applied Science in a healthcare field to complete a degree related to their healthcare goals. Transfer credit will be given for general education courses and up to 30 hours of professional courses taken in the chosen AAS curriculum from an accredited school. Southwestern Oklahoma State University is currently offering the first degree of this kind in Oklahoma. Students will be able to complete the majority of required health science coursework online in order to encourage degree completion while serving as a member of the healthcare workforce.

School of Nursing & Allied Health Sciences OSU 3 + 1 Rural Medicine/Early Admission Program
Students in the Department of Allied Health Sciences now have the opportunity to gain early admittance to the College of Osteopathic Medicine at the Oklahoma State University Center for Health and Sciences in Tulsa. The OSU College of Osteopathic Medicine seeks to admit students who desire to become primary care physicians in rural and underserved Oklahoma. The rural and underserved Primary Care Early Admission Program allows SWOSU Allied Health Sciences students to complete pre-doctoral medical training in seven years.

ASSOCIATE DEGREES IN APPLIED SCIENCE
SWOSU Weatherford and SWOSU Sayre offer the following Associate Degrees in Applied Science. All technical level training for these programs requires admission to the program based on the student’s application and performance evaluation.

**SWOSU – WEATHERFORD**
The following programs are available through a contractual agreement between SWOSU Weatherford and the Caddo-Kiowa Technology Center (CKTC) in Fort Cobb.

**Occupational Therapy Assistant (OTA)**
Prerequisite courses are taken at the SWOSU Weatherford and/or Sayre campus. Course transfer from other educational institutions will be considered upon program application. Specialty courses are taken at CKTC. The program is accredited by the American Occupational Therapy Association, Inc.

**Physical Therapist Assistant (PTA)**
Prerequisite courses are taken at the SWOSU Weatherford and/or Sayre campus. Course transfer from other educational institutions will be considered upon program application. Specialty courses are taken at CKTC or the SWOSU Weatherford campus. The program is accredited by the Commission on Accreditation in Physical Therapy Education.

**SWOSU – SAYRE**
Medical Laboratory Technician (MLT) is a clinical laboratory science training program accredited by the Accrediting Bureau of Health Education Schools.

**Radiologic Technology (X-ray)** is a radiology training program accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).
Associate in Applied Science Degree
Occupational Therapy Assistant (Code W96)

The prerequisite general education and technical occupational support courses must be completed prior to admission. The Caddo-Kiowa Technology Center (CKTC), Ft. Cobb, Oklahoma conducts the occupational specialty courses. Admission to the OTA program at CKTC is competitive and requires completion of the application packet prior to established deadlines. The application packet is obtained from the CKTC website and returned to the Allied Health Sciences office at SWOSU-Weatherford. Admission to the OTA program will be based on university GPA, references, personal interviews and other evidence of potential success in the field of O.T. Candidates selected for the OTA program must complete all admission requirements to Southwestern Oklahoma State University prior to initiating the program. Goals of this program: (1) to prepare students to function as OTA's through academically preparing them to be successful on the National Board Exam; (2) to shape a receptive educational environment, in both academic and clinical settings, which integrates classroom knowledge and skill acquisition. The OTA program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). Graduates of the program will be eligible to take the national certification examination given by the National Board for Certification in Occupational Therapy. After successful completion of this exam, the OTA student will be a Certified Occupational Therapy Assistant (COTA) and may apply for state licensure through the State Board of Medical Licensure and Supervision.

Written Communication ................................................................. 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II

Mathematics .................................................................................... 3
  Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
  or a higher numbered math course

Human, Cultural, & Social Diversity .................................................. 3
  PSYCH 1003 General Psychology

U. S. History ..................................................................................... 3
  Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government ....................................................................... 3
  POLSC 1103 American Government & Politics

Science ................................................................................................ 12
  BIOL 1004 Biological Concepts
  BIOL 2104 Human Anatomy*
  BIOL 2304 Human Physiology*

Technical Occupational Support Courses .......................................... 6
  PSYCH 2313 Developmental Psychology
  ALHLT 2443 Medical Terminology

Technical Occupational Specialty Courses ....................................... 30
  OTA 1013 Introduction to Occupational Therapy
  OTA 1023 Kinesiology for OTA
  OTA 1102 Therapeutic Media
  OTA 2002 Health Care & Occup. Therapy Mgmt
  OTA 2022 Fieldwork IA
  OTA 2102 Therapeutic Activities
  OTA 2113 Phys Dysfunction/Treatment Techniques
  OTA 2122 Fieldwork IB
  OTA 2133 Pediatric Care in Occupational Therapy
  OTA 2143 Elder Care in Occupational Therapy
  OTA 2153 Psychosocial Dysf/Treatment Techniques
  OTA 2212 Disease Pathology

Technical Occupational Related Courses ........................................... 6
  OTA 2203 Fieldwork IIA
  OTA 2213 Fieldwork IIB

TOTAL HOURS .................................................................................. 72

Admission to SWOSU or Caddo-Kiowa Technology Center does not guarantee admission to the Occupational Therapy Assistant Program.

*See program director regarding course substitution.
Associate in Applied Science Degree
Physical Therapist Assistant (Code W95)

This degree is awarded through Southwestern Oklahoma State University (SWOSU). The prerequisite general education courses must be completed prior to admission. The general education and technical occupational "support" courses may be taken at SWOSU Sayre and/or Weatherford. The technical occupational "specialty" courses will be conducted by the Caddo-Kiowa Technology Center (CKTC), Fort Cobb, OK, on either the CKTC campus or the SWOSU-Weatherford campus. Admission to the PTA program is competitive and requires completion of the application packet prior to established deadlines. The application packet is obtained from the CKTC or SWOSU websites and returned to the Allied Health Sciences office at SWOSU-Weatherford.

Admission to the PTA program will be based on university or college grade point averages, references, observations, and personal interviews of the top applicants. Candidates selected for the PTA program must complete all admission requirements to Southwestern Oklahoma State University prior to initiating the program. Goals of this program: (1) to prepare students to function as PTAs through academically preparing them to be successful on the National Board Exam; (2) to shape a receptive educational environment, in both academic and clinical settings, which integrates classroom knowledge and skill acquisition. The PTA program is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE).

After completing the PTA program, graduates will be eligible to take the PTA National Licensure Exam. After successful completion of this exam, the PTA graduate may apply for state licensure through the State Board of Medical Licensure and Supervision.

Written Communication...............................................................6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II

Mathematics..........................................................................................3
  Select one course.
  MATH 1143 Mathematical Concepts
  MATH 1153 Mathematical Applications
  MATH 1513 College Algebra
  or a higher numbered math course

Human, Cultural, & Social Diversity ......................................................3
  PSYCH 1003 General Psychology

Natural Sciences.......................................................................................12
  BIOL 1004 Biological Concepts w/lab
  BIOL 2104 Human Anatomy*
  BIOL 2304 Human Physiology*

U. S. History.............................................................................................3
  Select one course.
  HIST 1043 U.S. History to 1877
  HIST 1053 U.S. History since 1877

American Government...............................................................................3
  POLSC 1103 American Government & Politics

Technical Occupational Support Courses..............................................7
  KINES 2212 First Aid & CPR
  ALHLT 2443 Medical Terminology
  XXXX XXXX Two Hours Elective courses**

Technical Occupational Specialty Courses.......................................29
  PTA 1012 Introduction to Physical Therapy
  PTA 1023 Basic Human Needs
  PTA 1113 Threats to Basic Human Needs
  PTA 1213 Pain Management I
  PTA 1224 Therapeutic Exercise I
  PTA 2013 Pain Management II
  PTA 2024 Therapeutic Exercise II
  PTA 2032 Practicum I
  PTA 2112 PTA Systems/Problems
  PTA 2133 Practicum II

TOTAL HOURS.......................................................................................66

NOTE: After completing the requirements for the degree, graduates will be eligible to take the national licensure examination for Physical Therapists.

Admission to SWOSU or Caddo-Kiowa Technology Center does not guarantee admission to the Physical Therapist Assistant Program.

*See program director regarding course substitution
**See program coordinator or director for appropriate guided electives.
SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES
HEALTH CARE ADMINISTRATION

CONTACT INFORMATION
Science Building, Room 206
Phone: (580) 774-3249
http://www.swosu.edu/hca/

PROGRAM GOALS
The Health Care Administration Program at Southwestern Oklahoma State University has established goals toward which all curriculum and program activities are directed. Program goals are:

1. to professionally prepare students for an entry level position in administrative services in hospitals, nursing homes, mental health institutions, home health care, and governmental health agencies.
2. to encourage students who complete the degree to consider taking the steps necessary to obtain licensure as a certified nursing home administrator in Oklahoma.
3. to encourage students to consider a minor in some area of business to enhance their skills in accounting, finance, or management.
4. to encourage students to complete a major in health care administration to gain an introduction to the services and general functioning of health care institutions.

PROGRAMS OF STUDY
Major: Health Care Administration

Minor: Suggested choices:
- SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION: Psychology (Alcohol and Chemical Dependency or Child Development Psychology)
- SCHOOL OF ARTS AND SCIENCES: Multidisciplinary Studies (Emphasis in Business)

GENERAL INFORMATION

THE PROFESSION
The Health Care Administration Major at Southwestern Oklahoma State University is designed for the student who desires a challenging career as an administrator in a health care organization.

The Health Care Administration curriculum leads to a Bachelor of Science Degree which opens the door to a variety of career opportunities in health care administration. Some graduates may choose advanced graduate studies in health administration or prepare for educational opportunities in related allied health programs.

Managing the complex activities of a modern health care facility is a demanding task, which calls for the versatile skills of a trained administrator. Accordingly, the curriculum is designed to provide in-depth training in health care administration with a supportive liberal arts curriculum in the sciences, social sciences, business administration, and humanities.

To attain a bachelor’s degree in Health Care Administration, the candidate must complete a minimum of 122 semester hours of college credit with an overall grade point of at least 2.25 and a minimum grade point average of 2.25 in the major courses.

In addition to the regular coursework, Health Care Administration majors complete eight weeks of internship in approved health care facilities. This is possible through the cooperative efforts of hospitals, nursing homes, and other health care agencies. The student can personally design their internship time to work in different types of health care facilities. The internship should be scheduled after completing the majority of classes in the major and should include the 4 core courses indicated in the curriculum. To plan the internship, students should attend an internship orientation session scheduled throughout each fall and spring semester. Following attendance of this session, it is the responsibility of the student to identify their potential internship site(s) and submit an internship planning form to the internship faculty coordinator who will contact the facility and provide information on how to establish a formal agreement and relate the requirements of the internship. Internship planning forms should be submitted to the faculty coordinator at least 4 weeks in advance of the planned internship dates.

Students should be able to show evidence of current health insurance coverage, as well as a current physical examination and immunizations. Background checks, drug screens, and orientation programs may also be required by the internship sites selected by the student.
BACHELOR OF SCIENCE
HEALTH CARE ADMINISTRATION (Code No. 550)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

TOTAL HOURS................................................................. 40

WRITTEN COMMUNICATION .................................................6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

MATHEMATICS.......................................................................3
MATH 1513 College Algebra
or a higher numbered math course

U. S. HISTORY.........................................................................3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

AMERICAN GOVERNMENT ......................................................3
POLSC 1103 American Government & Politics

SCIENCE .................................................................................7-8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ........................................................................ 4
BIOL 1004 Biological Concepts w/Lab
OR
BIOL 1054 Principles of Biology I w/Lab

Physical Science .................................................................. 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

HUMANITIES ......................................................................... 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History

AND one of the following
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

HUMAN, CULTURAL, & SOCIAL DIVERSITY ............................ 3
PSYCH 1003 General Psychology

COMPUTER PROFICIENCY ....................................................0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE ELECTIVES (from at least two different categories)........ to total 40

Health Care Administration Major

REQUIRED COURSES .................................................................................................................. 40

Major Courses ...............................................................................................................................
ALHLT 2453 Medical Terminology
ALHLT 3043 Health Statistics
ALHLT 3193 U.S. Healthcare System
ALHLT 3933 Healthcare Mgmt
ALHLT 3963 Healthcare Project Mgmt
ALHLT 4043 Healthcare Law & Ethics

The four courses above MUST be completed before the Internship may be started.

ALHLT 4123 Healthcare Revenue Cycle
HIM 3122 Intro. To Electronic Health Records
HIM 3363 Healthcare Compliance & Risk Management
HIM 3453 Healthcare Reimbursement
HIM 4113 Healthcare Quality Measures
ALHLT 3978 Health Care Internship

The Health Care Internship consists of eight (8) weeks of scheduled training time arranged at various health care facilities.

Ancillary Courses ...........................................................................................................................
ACCTG 2213 Principles of Financial Accounting
ACCTG 2313 Principles of Managerial Accounting
ENTRP 3113 Intro to MIS
MNGMT 3233 Management
MNGMT 3333 Human Resource Management
MNGMT 3433 Dynamics of Organization Management

Choose 2 of the following:
ENTRP 3123 Legal Environment of Business
MNGMT 3533 Organizational Behavior
MNGMT 4123 Managerial Ethics

Minor Courses .............................................................................................................................. 18-23
Suggested areas to consider for the minor are: Business (5 options/18 hours), Psychology (20-23 hours), and Computer Science (18 hours)

TOTAL HOURS ........................................................................ Min. 122

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation......................................................... 122
Minimum credit hours in the liberal arts & sciences................................... 55
Minimum credit hours in upper-division.......................................................... 40
(3000/4000 courses).................................................................................
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ....................................... 8
Minimum credit hours at SWOSU (15 of the last 30)................................. 30
Minimum Grade Point Average in all coursework.................................... 2.25
Minimum Grade Point Average in major.................................................. 2.5

222
# HEALTH CARE ADMINISTRATION (Code 550)

**Suggested Course Sequence**

## FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>1001 Freshmen Orientation (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1004 Biological Concepts (4)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td>1023 Comp/Info Access</td>
<td>2213 Principles of Financial Accounting (3)</td>
</tr>
<tr>
<td><strong>OR</strong> replacement if Proficiency met (3)</td>
<td>2453 Medical Terminology (3)</td>
</tr>
<tr>
<td>1113 English Comp I (3)</td>
<td>xxx3-4 Physical Science GE (3-4)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
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<td>xxx3 Humanities GE (3)</td>
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<td><strong>Total (17)</strong></td>
<td><strong>Total (15-16)</strong></td>
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## SECOND YEAR

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<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>2313 Principles of Managerial Accounting (3)</td>
<td>1103 American Government and Politics (3)</td>
</tr>
<tr>
<td>3193 The U.S. Health Care System (3)</td>
<td>1313 Public Speaking (3)</td>
</tr>
<tr>
<td>xxx3 Course in Minor (3)</td>
<td>3233 Management (3)</td>
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<tr>
<td>xxx3 History GE (3)</td>
<td>3333 Human Resource Management (3)</td>
</tr>
<tr>
<td>xxx3 Humanities GE (3)</td>
<td>4043 Healthcare Law &amp; Ethics (3)</td>
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<tr>
<td>English Proficiency Exam**</td>
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## THIRD YEAR

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<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>3043 Health Statistics w/lab (3)</td>
<td>3453 Healthcare Reimbursement (3)</td>
</tr>
<tr>
<td>3113 Intro to MIS (3)</td>
<td>3963 Healthcare Project Management (3)</td>
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<tr>
<td>3933 Healthcare Management (3)</td>
<td>xxx3 Course in Minor (3)</td>
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<tr>
<td>4123 Healthcare Revenue Cycle (3)</td>
<td>xxx3 Course in Minor (3)</td>
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<td>xxx3 Course in Minor (3)</td>
<td>xxx3 Ancillary Elective (3)</td>
</tr>
<tr>
<td><strong>Total (15)</strong></td>
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## FOURTH YEAR

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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>3433 Dynamics of Organizational Management (3)</td>
<td>3122 Intro to Electronic Health Records (2)</td>
</tr>
<tr>
<td>3363 Healthcare Compliance &amp; Risk Management (3)</td>
<td>3974 HC Internship ³ (4)</td>
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<tr>
<td>3974 HC Internship ³ (4)</td>
<td>xxx3 GE Elective (3)</td>
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<tr>
<td>4113 Healthcare Quality Measures (3)</td>
<td>xxx3 Course in Minor (3)</td>
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<tr>
<td>xxx3 Course In Minor (3)</td>
<td>xxx3 Ancillary Elective (3)</td>
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<tr>
<td><strong>Total (16)</strong></td>
<td><strong>Total (15)</strong></td>
</tr>
</tbody>
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* Students should consider summer schools to lighten load.

** 3978 Health Care Internship lasts 8 weeks. Take during summer 3rd or 4th year.

*** If applicable. See English Proficiency Program under the General Academic Information Section.
SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES
HEALTH INFORMATION MANAGEMENT

PROGRAM GOALS
The goals of the distance education Health Information Management Program at Southwestern Oklahoma State University serve as the foundation for program development and continuous evaluation. Program goals are:

- to provide the academic foundation necessary to ensure that graduates are able to successfully perform the Entry Level Competencies of the HIM profession as periodically defined by nationally accepted standards of practitioner roles and functions,
- to provide a quality program in Health Information Management supported by a comprehensive curriculum based on continuous assessment, modification, and reanalysis,
- To employ and foster the development of faculty who demonstrate competence in current and emerging HIM professional practice particularly related to areas of instructional responsibility, and
- To monitor and be receptive to the needs of the community of interest served by the HIM program at SWOSU.
- To prepare students to develop the skills needed by practicing professionals in the Health Information Management field and provide assurance that graduates of the program demonstrate the entry-level competencies.

PROGRAMS OF STUDY
Major: Health Information Management
Minor: Health Care Administration

GENERAL INFORMATION
THE PROFESSION
The Health Information Manager works on the business side of healthcare and is a key member of the modern medical team who plans, designs, develops, and manages health information systems. S/he is responsible for controlling data and confidentiality, clinical statistical data, and quality improvement programs in all types of health care facilities, organizations, and agencies. The Health Information Manager combines knowledge of health care, health documentation, information management, and administration to provide services which meet the medical, administrative, legal, ethical, regulatory, and institutional requirements of the health care delivery system being served. The profession is an excellent choice for self-motivated individuals interested in a career that combines knowledge of medicine, business, and computer science. The demand for professional Health Information Managers is increasing, and the number of trained individuals needed will actually increase for several years. Career opportunities are found throughout the nation and in foreign countries. Employment is found specifically in hospital health information departments as directors, assistant directors, area supervisors, coders, and specialists in the areas of utilization review, data administration, cancer registry, performance improvement, and reimbursement, as well as analysis, design, implementation, and meaningful use of electronic health record systems. Job opportunities other than hospitals include outpatient clinics, health centers, medical research organizations, consulting firms, private consulting, long-term care facilities, insurance companies, private and governmental health agencies, correctional facilities, and colleges and universities with educational programs in health information management and technology.

ADMISSION REQUIREMENTS
Any student may declare their major as Health Information Management and enroll in the pre-professional curriculum. This curriculum consists of 67-68 hours including courses which meet the general education requirements of the University. When most of these pre-professional courses are completed, students may apply for admission into the professional Health Information Management Program. Applications are available online at www.swosu.edu. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.50 in these courses. The number of applicants accepted will reflect an appropriate student-faculty ratio and the availability of appropriate clinical resources. Students in Health Information Management will complete a minor in Health Care Administration.

Applicants to the HIM Program must possess the following general qualities: critical thinking, sound judgment, emotional stability and maturity, empathy, physical and mental stamina, and the ability to learn and function in a wide variety of didactic and clinical settings. Graduates of the HIM Program must have the minimal skills, essential functions, and knowledge to function in a broad variety of clinical settings.

Students in the HIM Program must have the following minimum abilities:

- Technical competence to complete the HIM degree since the degree is a distance education program/100% online.

- Ability to meet minimum hardware and software requirements for all coursework throughout the HIM program as specified by faculty.
Ability to acquire and apply information from classroom instruction, laboratory experience, independent learning and team projects.

Ability to communicate effectively in English using oral and written form with colleagues, clerical employees, other health professionals, patients, attorneys, workers’ compensation representatives, insurance companies, as well as other third party payers and other individuals and agencies who need information from patient records or databases maintained in HIM departments.

Ability to calculate mathematical information, such as hospital statistics, budgets, and productivity information.

Ability to use computers and complete computer-based assignments and the ability to operate additional equipment located in HIM departments.

Manual dexterity necessary to complete activities relative to the HIM office environment with sufficient mobility to maneuver in small areas.

Visual ability sufficient to read and access medical information in a variety of media (i.e. paper records, computerized data).

Ability to synthesize information regarding health care outcomes for formal, verbal, and/or written presentation to health care professionals as well as the ability to delegate to subordinates.

Upon admission, a student who discloses a properly certified disability will receive reasonable accommodation but must be able to perform the above listed essential functions of the curriculum and the HIM professional environment.

**PROFESSIONAL PRACTICE AND THE MANAGEMENT PRACTICUM**

The purpose of the professional practical experience (including 4051-Professional Practice and 4253-Management Practicum) is to provide the vital link between textbook, campus instruction, and on-site experience. Students are assigned to a variety of health care facilities to gain “real life” experience throughout the professional curriculum. Affiliate sites are located in Oklahoma City and other Oklahoma locations. Arrangements may be made for students to complete requirements in out-of-state facilities. Students are responsible for all expenses incurred including meals, transportation and lodging. In addition, the student should be able to show evidence of current health insurance coverage, current physical examination and immunizations, drug screen, completion of a background check prior to practical experiences, and additional requirements based on healthcare facility preference.

**PROGRAM COMPLETION**

Students must achieve and maintain a 2.5 GPA during the professional program to be allowed to progress through the professional sequence, as well as the maintenance of a "C" or better in all major courses. If courses are sequenced appropriately and completed in a timely manner, students will complete all requirements for program completion in May of their senior year.

**PROGRAM OUTCOMES**

Annual graduate and employer follow-up indicate that both graduates and employers are highly satisfied with the HIM program at SWOSU. Student performance on the national certification exam is at or above the national average. The SWOSU HIM graduate is highly marketable in the health workforce filling a diverse variety of HIM related roles including management, diagnostic coding, cancer and trauma registry, and positions relating to emerging technologies associated with electronic health information. Limiting factors to employment are mobility constraints.

**ACCREDITATION**

The Health Information Management Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Accreditation ensures that graduates will be eligible to take the National Registration Examination for the Registered Health Information Administrator (RHIA).
BACHELOR OF SCIENCE
IN HEALTH INFORMATION MANAGEMENT (Code No. 551)

Health Information Management Major

Professional Courses .................................................................................. 36
HIM 3033 Introduction to Health Information
HIM 3122 Intro to Electronic Health Records
HIM 3123 Advanced Electronic Health Records
HIM 3333 Coding I
HIM 3343 Coding II
HIM 3453 Healthcare Reimbursement
HIM 4023 Health Information Application
HIM 4033 Health Information Management
HIM 4051 Professional Practice (X 2)
HIM 4073 Health Data Analysis
HIM 4082 HIM Professional Review
HIM 4093 Health Data Informatics
HIM 4153 Management Practicum

Ancillary Courses ...................................................................................... 29
ALHLT 2453 Medical Terminology
ALHLT 3073 Diagnostics, Drugs, & Therapeutics
ALHLT 3363 Healthcare Compliance & Risk Mgmt
ALHLT 4074 Pathophysiology
ALHLT 4093 Epidemiology
ALHLT 4123 Healthcare Revenue Cycle
BIOL 3704 Human Anatomy
COMSC 1103 Intro to Information Security
ENTRP 3113 Intro to MIS (Mgmt Info Systems)

Health Care Administration Minor .................................................................. 18
ALHLT 3043 Health Statistics
ALHLT 3183 Cultural Competence in Healthcare
ALHLT 3933 Healthcare Management
ALHLT 3963 Healthcare Project Mngt
ALHLT 4043 Healthcare Law & Ethics
HIM 4113 Healthcare Quality Measures

Total ........................................................................................................... 123-124

REGULATIONS PERTAINING TO GRADUATION
Minimum credit hours for graduation ................................................. 123-124
Minimum credit hours in the liberal arts & sciences ........................ 55
Minimum credit hours in upper-division (3000/4000 courses) .......... 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU ........................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ..................... 30
Minimum Grade Point Average in all coursework .......................... 2.25
Minimum Grade Point Average in major ......................................... 2.25

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.

GENERAL EDUCATION HOURS ................................................................. 40
REQUIRED CORE COURSES .................................................................... 31-35
Written Communication ............................................................................. 6
  ENGL 1113 English Composition I
  ENGL 1213 English Composition II
Mathematics ............................................................................................... 3
MATH 1513 College Algebra
or a higher numbered math course
U. S. History ............................................................................................... 3

Select one course.
HIST 1043 U. S. History to 1877
HIST 1053 U. S. History since 1877

American Government ............................................................................... 3
POLSC 1103 American Government & Politics

Science ....................................................................................................... 8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science ............................................................................................ 3-4
BIOL 1004 Biological Concepts w/Lab
  OR
  BIOL 1054 Principles of Biology I w/Lab

Physical Science ....................................................................................... 3-4
ASTRO 1904 Astronomy
CHEM 1004 General Chemistry w/Lab
GEOL 1934 Physical Geology w/Lab
SCI 1513 Conc of Phy Science (may also take w/lab)
SCI 1501 Concepts of Phy Science Lab
PHY 1044 Basic Physics I w/Lab
PHY 1063 General Physics
or a higher numbered chemistry or physics course

Humanities ............................................................................................... 6
HUM 1103 Introduction to Humanities
  OR
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ......................................................... 3
PSYCH 1003 General Psychology

Computer Proficiency ............................................................................... 0-3
Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from at least 2 different categories) to total 40
HEALTH INFORMATION MANAGEMENT (Code 551)
Suggested Course Sequence*

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1001 Freshmen Orientation (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1004 Biological Concepts w/lab (4)</td>
<td>1023 Comp/Info Access (3)</td>
</tr>
<tr>
<td>1113 English Comp. I (3)</td>
<td><strong>OR</strong> replacement if proficiency met</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>1213 English Comp. II (3)</td>
</tr>
<tr>
<td>xxx3 GE Elective (3)</td>
<td>2453 Medical Terminology (3)</td>
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<td>xxx3 Humanities Elective (3)</td>
<td>xxx3-4 Physical Science GE (3-4)</td>
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<tr>
<td><strong>Total (17)</strong></td>
<td><strong>Total (15-16)</strong></td>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1103 American Government &amp; Politics (3)</td>
<td>3043 Health Statistics w/lab (3)</td>
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<tr>
<td>1313 Public Speaking (3)</td>
<td>3073 Diagnostics, Drugs &amp; Therapeutics (3)</td>
</tr>
<tr>
<td>3183 Cultural Competence in Healthcare (3)</td>
<td>3704 Human Anatomy w/lab (4)</td>
</tr>
<tr>
<td>xxx3 History GE (3)</td>
<td>3933 Healthcare Management (3)</td>
</tr>
<tr>
<td>xxx3 Humanities GE (3)</td>
<td>4043 Healthcare Law &amp; Ethics (3)</td>
</tr>
<tr>
<td>English Proficiency Exam**</td>
<td><strong>Total (16)</strong></td>
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<td><strong>Total (15)</strong></td>
<td><strong>Total (16)</strong></td>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>3033 Intro to Health Info w/lab (3)</td>
<td>3122 Intro to Elec. Health Records (2)</td>
</tr>
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<td>3113 Intro to MIS (3)</td>
<td>3453 Healthcare Reimbursement (3)</td>
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<tr>
<td>4074 Pathophysiology (4)</td>
<td>3963 Healthcare Project Management (3)</td>
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<tr>
<td>4123 Healthcare Revenue Cycle (3)</td>
<td>4023 Health Information Applications (3)</td>
</tr>
<tr>
<td>4113 Healthcare Quality Measures (3)</td>
<td>4051 Professional Practice (1)</td>
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<tr>
<td></td>
<td>4093 Epidemiology (3)</td>
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<tr>
<td><strong>Total (16)</strong></td>
<td><strong>Total (15)</strong></td>
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<tr>
<th>FOURTH YEAR</th>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>3123 Adv. Elec Health Records (3)</td>
<td>3343 Coding II w/lab (3)</td>
</tr>
<tr>
<td>3333 Coding I w/lab (3)</td>
<td>4033 Health Information Mngmt w/lab (3)</td>
</tr>
<tr>
<td>3363 Healthcare Compliance &amp; Risk Management (3)</td>
<td>4073 Health Data Analysis (3)</td>
</tr>
<tr>
<td>4051 Professional Practice (1)</td>
<td>4082 HIM Professional Review (2)</td>
</tr>
<tr>
<td>4093 Health Data Informatics (3)</td>
<td>4153 Management Practicum (3) (2nd 8 weeks)</td>
</tr>
<tr>
<td>4103 Health Data Security (3)</td>
<td><strong>Total (14)</strong></td>
</tr>
<tr>
<td><strong>Total (16)</strong></td>
<td><strong>Total (16)</strong></td>
</tr>
</tbody>
</table>

* Students should consider summer school to lighten load.

** If applicable. See English Proficiency Program under the General Academic Information Section
SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES

HEALTH SCIENCES

FACULTY

Jessica Young, Coordinator
Science Building, Room 206 B
Phone: (580) 774-3079
E-mail: jessica.young@swosu.edu
http://www.swosu.edu/healthsci/

Sharon Lawrence .................................. SCI 114 D ............ sharon.lawrence@swosu.edu ........................................ (580) 774-6917
Dana Lloyd ........................................ SCI 202 B .............. dana.lloyd@swosu.edu .................................... (580) 774-7149
Anne Pate ........................................ SCI 114 C ............. anne.pate@swosu.edu ........................................ (580) 774-6332
Marcy Pye ........................................ SCI 202 C ............. marcy.pye@swosu.edu ........................................ (580) 774-7103

GOALS
The Bachelor of Science in Health Sciences is a curriculum designed to meet the following goals:

1. To provide students with an adequate background to enter graduate level programs in the health sciences.
2. To provide students seeking admission into professional health programs a curriculum designed to meet all prerequisites. Such programs shall include, but are not limited to, Medicine, Physician’s Associate, Physical Therapy, Occupational Therapy, Clinical Dietetics, Radiology, Dentistry, Dental Hygiene, Optometry and others.
3. To provide students a bachelor's degree track while completing prerequisites and applying for technical programs at the Associate Degree level. Such programs include Physical Therapist Assistant, Occupational Therapy Assistant, Radiological Technician, and Medical Laboratory Technician.

PROGRAMS OF STUDY

Major: Health Sciences

Minor: Choice of Business, Chemistry, Physics, Psychology, Computer Science, and others with approval.

NOTE: Certain minors may be required for specialized programs.

GENERAL INFORMATION

The Bachelor of Science in Health Sciences is a degree plan that provides students interested in the Health Sciences and/or Health Professions an opportunity to pursue dedicated educational opportunities in the health care field.

The major requirements for the Health Sciences degree include courses that are important to anyone planning a career in the health care industry. The courses serve to provide specific health related training which will supplement the specialized education the students will receive in their chosen professional programs. The program also includes an experienced based internship in an approved health care facility. These types of experiences are essential in understanding the complexity and issues that confront modern health care.

The health care industry is one of the major employers of this decade and we are excited about continuing to offer this educational opportunity to the students of Southwestern Oklahoma State University.

HEALTH CAREER PLANNING

Professional Programs in health care require designated prerequisite college courses and in some cases specific qualifying exams, such as the MCAT, GRE, or other exams for admission. Personal interviews and demonstrated service activities may also be considered for admission.

Questions about specific health care programs should be directed to the Allied Health Sciences Administrative Assistant for advisement referrals or for answers to questions regarding graduate level health programs.

Course sequences and specific requirements are available for many professional areas, such as pre-medicine, pre-dental, pre-optometry, pre-physical therapy, pre-dental hygiene, pre-radiology, pre-physician associates, pre-nutritional sciences and others. Please contact the office of Allied Health Sciences (Science Building, Room 206) for degree plan resources.
BACHELOR OF SCIENCE
HEALTH SCIENCES MAJOR (Code No. 553)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ........................................ Min. 40
REQUIRED CORE COURSES .................................................. 31-35

Written Communication ...................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics ........................................................................ 3
MATH 1513 College Algebra
or a higher numbered math course

U. S. History ....................................................................... 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877

American Government ....................................................... 3
POLSC 1103 American Government & Politics

Science .............................................................................. 7
Select one course from Life Science and one course from Physical Science.
One Science course must be a lab science.

Life Science ................................................................. 4
BIOL 1004 Biological Concepts w/Lab OR
BIOL 1054 Principles of Biology I w/Lab

Physical Science .......................................................... 4
CHEM 1004 General Chemistry w/Lab
or a higher numbered chemistry or physics course

Humanities ........................................................................ 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History

AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity ...................................... 3-4
COMM 1313 Introduction to Public Speaking

Computer Proficiency ....................................................... 0-3

Students must demonstrate computer proficiency (high school
Computer Science course, SWOSU computer proficiency exam, or
COMSC 1023 Computer & Info Access).

GE electives (from two different categories) to total ...............40
PSYCH 1003 General Psychology
XXXXX XXXX GE Elective from Category I, II, or IV

Health Sciences Major

Required: Allied Health Sciences Core ................................... 34
ALHLT 1401 Allied Health Careers
ALHLT 2453 Medical Terminology
ALHLT 3043 Health Statistics
ALHLT 3183 Cultural Competence in Healthcare
ALHLT 3193 U.S. Health Care System
ALHLT 3933 Healthcare Management
ALHLT 3963 Healthcare Project Mgmt
ALHLT 4043 Healthcare Law & Ethics
ALHLT 4081 Health Science Senior Summit
ALHLT 4093 Epidemiology
BIOL 3704 Human Anatomy
BIOL 3904 Human Physiology

Electives ............................................................................ 20
ALHLT 3053 Advanced Medical Terminology
ALHLT 3073 Diagnostics, Drugs & Therapeutics
ALHLT 3861-4 Health Science Internship
ALHLT 4074 Pathophysiology
ALHLT 4123 Healthcare Revenue Cycle
BIOL 1254 Principles of Biology II
BIOL 3254 Genetics
BIOL 4213 Immunology
BIOL 4355 Microbiology
HIM 3122 Introduction to the Electronic Health Record
HIM 3363 Healthcare Compliance & Risk Management
HIM 4113 Healthcare Quality Measures
PHY 1044 Basic Physics I
PHY 1054 Basic Physics II
PSYCH 3213 Developmental Psychology
TECH 3143 Technical Presentations

Minor ............................................................................... 18-22

Free Electives (8 hrs if 18 hour minor chosen) ....................... 120

Students should visit with their advisor prior to enrollment to assure proper sequencing of courses.

(Specific prerequisites for professional health programs may vary and will be handled by personal advisement. Check sheets are available for all pre-professional programs in Science 206.)

REGULATIONS PERTAINING TO GRADUATION
Minimum Credit Hours for Graduation .................................. 120
Minimum credit hours in the liberal arts & sciences ............... 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Min. Credit Hours (3000/4000 courses)
in major completed at SWOSU 30
Minimum Grade Point Average in all coursework ................ 2.25
Minimum Grade Point Average in major ......................... 2.25

229
## HEALTH SCIENCES (Code 553)
### Suggested Course Sequence*

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<tr>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<tr>
<td>1001 Freshmen Orientation (1)</td>
<td>1003 General Psychology (3)</td>
</tr>
<tr>
<td>1004 Biological Concepts (4)</td>
<td>1004 Gen. Chemistry</td>
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<tr>
<td>OR 1054 Principles of Bio I w/lab</td>
<td>OR 1203 Chemistry I &amp; 1252 Chemistry I Lab (4-5)</td>
</tr>
<tr>
<td>1113 English Comp I (3)</td>
<td>1023 Comp/Info Access (3)</td>
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<tr>
<td>1401 Allied Health Careers (1)</td>
<td>OR replacement if proficiency met</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td>xxx3 Humanities GE (3)</td>
<td>2453 Medical Terminology (3)</td>
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<td><strong>Total (15)</strong></td>
<td><strong>Total (16-17)</strong></td>
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<td>1043/1053 U.S. History (3)</td>
<td>1103 American Government (3)</td>
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<tr>
<td>3183 Cultural Competence in Healthcare (3)</td>
<td>1313 Intro to Public Speaking (3)</td>
</tr>
<tr>
<td>3193 The U.S. Healthcare System (3)</td>
<td>3904 Human Physiology w/lab (4)</td>
</tr>
<tr>
<td>3704 Human Anatomy (4)</td>
<td>4043 Healthcare Law &amp; Ethics (3)</td>
</tr>
<tr>
<td>xxx3 Course in Minor (3)</td>
<td>xxx3 Course in Minor (3)</td>
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<tr>
<td>English Proficiency Exam**</td>
<td><strong>Total (16)</strong></td>
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<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>3043 Health Statistics w/lab (3)</td>
<td>3963 Healthcare Project Management (3)</td>
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<tr>
<td>3933 Healthcare Management (3)</td>
<td>4093 Epidemiology (3)</td>
</tr>
<tr>
<td>xxx3 Course in Minor (3)</td>
<td>xxx3 Course in Minor (3)</td>
</tr>
<tr>
<td>xxx3 Humanities GE (3)</td>
<td>xxx3 Free Elective or Professional Requirement (3)</td>
</tr>
<tr>
<td>Major Elective (3-4)</td>
<td>Major Elective (3-4)</td>
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<td><strong>Total (15-16)</strong></td>
<td><strong>(Total 15-16)</strong></td>
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<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td>4081 Health Science Senior Summit (1)</td>
<td>xxx3 Course in Minor (3)</td>
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<tr>
<td>xxx3 Course in Minor (3)</td>
<td>xxx2 Free Elective or Professional Requirement (2)</td>
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<tr>
<td>Major Electives (9-12)</td>
<td>xxx2-3 GE Elec from I/II/or IV (2-3)</td>
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<tr>
<td><strong>Total (13-16)</strong></td>
<td><strong>Total (13-14)</strong></td>
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*Students should consider Summer School to lighten load.

**If applicable. See English Proficiency Program under the General Academic Information Section.

Note: The above is for the generic Health Sciences Major. Students attempting admission to a specific professional program should follow the degree plan provided for that discipline. Degree plans are available in the School of Allied Health Sciences office, located in Science 206.
BACHELOR OF APPLIED SCIENCE
IN HEALTH SCIENCE (Code No. 555)

GENERAL EDUCATION
Courses that are required are in bold type.
Courses that are recommended are in italics.
TOTAL GENERAL EDUCATION HOURS ................................ Min. 40

Written Communication .......................................................... 6
ENGL 1113 English Composition I
ENGL 1213 English Composition II
Mathematics ................................................................................. 3
MATH 1513 College Algebra
or a higher numbered math course
U. S. History .................................................................................. 3
Select one course.
HIST 1043 U.S. History to 1877
HIST 1053 U.S. History since 1877
American Government ................................................................. 3
POLSC 1103 American Government & Politics
Science .......................................................................................... 8
Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.
Life Science .................................................................................. 4
BIOL 1004 Biological Concepts w/Lab OR
BIOL 1054 Principles of Biology I w/Lab
Physical Science ............................................................................ 4
CHEM 1004 General Chemistry w/Lab or
or a higher numbered chemistry or physics course
Humanities ..................................................................................... 6
HUM 1103 Introduction to Humanities
OR
HIST 1033 World History
AND one of the following:
ART 1223 Art Survey
COMM 1263 Introduction to Theatre
LIT 2333 Introduction to Film
LIT 2413 Introduction to Literature
MUSIC 1013 Introduction to Music I
MUSIC 1103 Music and Culture
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity .............................................. 3
COMM 1313 Introduction to Public Speaking
Computer Proficiency ........................................................................ 0-3
Students must demonstrate computer proficiency by meeting one (1) of the following:
• COMSC 1023 Computer & Info Access
• *High School Computer Science course
• *SWOSU Computer Proficiency Exam
*Must complete additional 3 hours from GE options
GE electives (from two different categories) to total ...................... 40
PSYCH 1003 General Psychology
XXXXX XXXX GE Elective from Category I, II, or IV

Applied Health Science Major
Required: Allied Health Science Core ........................................... 35
ALHLT 2453 Medical Terminology
ALHLT 3043 Health Statistics
ALHLT 3073 Diagnostics, Drugs, & Therapeutics
ALHLT 3183 Cultural Competence in Healthcare
ALHLT 3193 U.S. Health Care System
ALHLT 3933 Healthcare Management
ALHLT 3963 Healthcare Project Management
ALHLT 4043 Healthcare Law & Ethics
ALHLT 4093 Epidemiology
BIOL 3704 Human Anatomy
BIOL 3904 Human Physiology OR
KINES 4234 Exercise Physiology

Required Ancillary ........................................................................... 6
HIM 3363 Healthcare Compliance & Risk Management
HIM 4113 Healthcare Quality Measures

Electives ........................................................................................ 9
ALHLT 3053 Advanced Medical Terminology
ALHLT 3971-2 Health Care Internship
ALHLT 4074 Pathophysiology
ALHLT 4123 Healthcare Revenue Cycle
ATEP 2633 Cardiac and Emergency Care
ATEP 4433 Athletic Training Modalities
BIOL 1054 Principles of Biology I
BIOL 1254 Principles of Biology II
BIOL 4355 Microbiology
CHEM 1203 General Chemistry I
CHEM 1252 General Chemistry I Lab
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
HIM 3122 Introduction to the Electronic Health Record
KINES 2212 First Aid
KINES 2502 Care and Prevention of Athletic Injuries
KINES 3443 Kinesiology and Anatomy
KINES 4234 Exercise Physiology
PHY 1044 Basic Physics I
PHY 1054 Basic Physics II
PSYCH 3213 Developmental Psychology
PSYCH 3323 Abnormal Psychology

Health Specialization Hours** ..................................................... 30

Total Credit Hours ...................................................................... 120

REGULATIONS PERTAINING TO GRADUATION
Minimum Credit Hours for Graduation ........................................ 120
Minimum credit hours in the liberal arts & sciences .................. 55
Minimum credit hours in upper-division (3000/4000 courses) ... 40
Min. Credit Hours (3000/4000 courses)
in major completed at SWOSU ................................................... 8
Minimum credit hours at SWOSU (15 of the last 30) ................. 30
Minimum Grade Point Average in all coursework ..................... 2.25
Minimum Grade Point Average in major ................................. 2.25

**Health Specialization Hours: A block of 30 credit hours will be given to BAS students for their AAS specialized field.
## BACHELOR OF APPLIED SCIENCE
IN HEALTH SCIENCE (Code 555)
Suggested Course Sequence

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<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
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<tr>
<td>FIRST SEMESTER</td>
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<tr>
<td>1001 Freshmen Orientation (1)</td>
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<td>1004 Biological Concepts w/lab (4)</td>
<td>3213 Development Psychology (3)</td>
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<td>3704 Human Anatomy (4)</td>
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<td>1513 College Algebra (3)</td>
<td>OR 4234 Exercise Physiology w/lab (4)</td>
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<td>xxx3 Major Elective (Prof Pre-req) (3)</td>
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### APPLY TO AAS PROFESSIONAL PROGRAM OF CHOICE
SECOND YEAR

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### GRADUATE WITH AAS IN HEALTHCARE RELATED FIELD
THIRD YEAR

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<td>1004 Gen. Chemistry w/lab (4)</td>
<td>3043 Health Statistics w/lab (3)</td>
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<td>3193 The U.S. Healthcare System (3)</td>
<td>3363 Healthcare Comp and Risk Management (3)</td>
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<tr>
<td>3933 Healthcare Management (3)</td>
<td>4113 Healthcare Quality Measures (3)</td>
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<td>xxx3 Humanities Elective (3)</td>
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### FOURTH YEAR

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<tr>
<td>1023 Comp and Info Access (3)</td>
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<td>1313 Intro to Public Speaking (3)</td>
<td>3963 Healthcare Project Management (3)</td>
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<td>3073 Diagnostics, Drugs &amp; Therapeutics (3)</td>
<td>4043 Healthcare Law &amp; Ethics (3)</td>
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<td>4093 Epidemiology (3)</td>
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*If applicable. See English Proficiency Program under the General Academic Information Section.
Degrees Offered in the
COLLEGE OF PROFESSIONAL AND
GRADUATE STUDIES

SCHOOL OF NURSING

Dr. Chad Kinder, Dean
Dr. Marcy Tanner, Associate Dean

SCHOOL OF NURSING
- Nursing – B.S.N.
- Nursing – R.N. to B.S.N.
- Nursing – M.S.N.
- Nursing/Business-M.S.N./M.B.A.
SCHOOL OF NURSING

FACULTY
Marcy Tanner, Associate Dean
School of Nursing
Quanah Parker Center, PAR 124 A
Phone: (580) 774-3261
marcy.tanner@swosu.edu
http://www.swosu.edu/nursing/

Juli Bell .................................................. PAR 105 ............................................. juli.bell@swosu.edu .................................................. (580) 774-3258
Tammy Blatnick ....................................... PAR 109 ............................................. tammy.blatnick@swosu.edu .................................................. (580) 774-7168
Mary Carrell ........................................... PAR 127 ............................................. mary.carrell@swosu.edu .................................................. (580) 774-6427
Glenna Davis .......................................... PAR 108 ............................................. glenna.davis@swosu.edu .................................................. (580) 774-3234
Rachel Davis .......................................... PAR 141 ............................................. rachel.davis@swosu.edu .................................................. (580) 774-6089
Angela Gore ........................................... PAR 104 ............................................. angela.gore@swosu.edu .................................................. (580) 774-3176
Nancy Henke ......................................... PAR 108 ............................................. nancy.henke@swosu.edu .................................................. (580) 774-7188
LeaAnne Hume ...................................... PAR 106 ............................................. leaanne.hume@swosu.edu .................................................. (580) 774-3180
Carie Strauch ........................................ PAR 141 ............................................. carie.strauch@swosu.edu .................................................. (580) 774-3741
Tamra Weimer ...................................... PAR 140 ............................................. tamra.weimer@swosu.edu .................................................. (580) 774-7007
Kathy Wolff .......................................... PAR 110 ............................................. kathy.wolff@swosu.edu .................................................. (580) 774-3262

PROGRAM STUDENT LEARNING OUTCOMES

Bachelor of Science in Nursing
1. Practice nursing in a professional, ethical, and legal manner.
2. Analyze comprehensive patient assessment data and make complex and prioritized clinical decisions utilizing the nursing process.
3. Provide a safe environment for clients, self, and others.
4. Practice nursing that is client centered, caring, culturally sensitive and based on the physiological, psychosocial and spiritual needs of clients.
5. Integrate information technology resources into the provision of client care.
6. Provide health-related education to restore health and promote optimal wellness.
7. Collaborate with members of the interdisciplinary health care to promote continuity of client care.
8. Use leadership skills in the management of safe, quality client care. Promote quality improvement by participating in the implementation of care-related plans to improve health care services.

Master of Science in Nursing
1. Analyze and apply multidisciplinary research and evidence to healthcare issues and the promotion of evidence-based practice.
2. Apply the nursing research process to appraise existing knowledge and to the development of new knowledge and the promotion of evidence-based practice.
3. Disseminate nursing knowledge to a multidisciplinary team within the health care system to improve health care safety and quality outcomes for individuals, families and communities.
4. Promote care and service that acknowledges and respects the diversity among individuals and groups.
5. Apply leadership principles to promote positive change in health care and policy on local, state, national and global levels.
6. Develop effective strategies to address the ethical issues inherent in clinical practice, education, and research.
7. Use information systems and technology to implement quality improvement initiatives and support decision-making.

PROGRAMS OF STUDY

Majors: B.S.N. Nursing
R.N. to B.S.N. Nursing

Master: M.S.N. Nursing
Nursing/Business-M.S.N./M.B.A.
(See Graduate Catalog for more information)

Pre-Professional: Pre-Nursing

GENERAL INFORMATION

History
The SWOSU Division of Nursing was established in 1976 under the Department of Biological Sciences. The program was the first rural baccalaureate nursing program in Oklahoma. With growth and expansion, the Division of Nursing was integrated into the School of Health Sciences in 1978, along with the School of Pharmacy and the Division of Allied Health. In 2003 as part of University reorganization, the Division of Nursing became the School of Nursing and was placed under the newly created College of Professional and Graduate Studies.

Accreditation/Memberships
The Bachelor of Science in Nursing (B.S.N.) program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN) and is approved by the Oklahoma Board of Nursing. Graduates of this state approved program are eligible to apply to write the National Council Licensure Examination (NCLEX) for registered nurses. It also is a member of the American Association of Colleges of Nursing and the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing.

Instructional Resources
Qualified faculty engage in teaching, research, community service, clinical practice and consultation, and offer a quality instructional program. Formal lectures, seminars, small group discussions, guest lecturers, computer-assisted instruction, laboratory demonstration/practice, and scheduled clinical experiences are the methods of instruction utilized to insure the student of a high quality instructional program.
Instructional facilities are varied in order to enhance learning experiences. Among those utilized are Weatherford Regional Hospital; Alliance Health, Clinton; Great Plains Regional Medical Center, Elk City; St. Anthony Hospital, OU Medical Center, Children's Hospital, Integris Southwest Medical Center, and Mercy, Oklahoma City; Headstart Programs, day care, and senior citizen centers; area health departments, schools, home health care agencies, and other sites.

**Financial Information**
Financing the professional nursing program is the responsibility of the student. Application for financial aid is through the Office of Student Financial Services. Additional sources of financial aid are available after the student is accepted into the major.

**Fees and Charges**
The following fees and charges are the financial responsibility of the student:

- **Travel/Transportation:** Travel and transportation to all learning sites.
- **Uniforms:** Uniforms and other equipment as necessary for clinical practicum.
- **Immunizations/Screenings:** Certain immunizations and screenings are required for clinical courses.

**Admissions to Pre-Professional Component**
The pre-nursing program at SWOSU is open to registered nurses seeking a B.S.N. and high school graduates and college transfer students who have not completed the pre-nursing curriculum for the baccalaureate degree in nursing. All students must qualify for admission to the University before entry into the pre-nursing curriculum.

Regulations concerning admission and credit transfer to Southwestern Oklahoma State University are listed elsewhere in this catalog or may be obtained from the Office of the Registrar.

**Admission to the Professional Nursing Component**

- **Non-Registered Nurse Students**
  Students are admitted to the professional component of the nursing major each fall term. Satisfactory completion of all pre-professional requirements to the nursing major is required of all generic (non-R.N.) students before consideration for admittance to the upper level. Certain pre-professional and general education courses must be completed with a grade of “C” or better. A listing of these courses is available from the School of Nursing. A retention grade point average of 2.50 (on a 4.0 scale) is required for consideration for admission to the professional component. Application forms are available each December from the School of Nursing. The application deadline is the first Monday of February. The student will receive official notification regarding acceptance by the end of the spring semester.

- **Application and Selection**
The faculty of the School of Nursing establish the operating policies and methods of applicant selection.

The Admissions Committee relies heavily on objective criteria such as quality and consistency of academic performance. Pre-professional requirements, admission testing results, and GPA are among the factors considered.

The School of Nursing selects the best-qualified students. High motivation, scholastic excellence, and interest in and for a progressive nursing profession are perceived as desirable characteristics for future members of a health care team. The number of applicants accepted will reflect the appropriate student-faculty ratio to meet the program goals and the availability of appropriate clinical resources.

**Advanced Standing Examinations (Pre-Professional)**
Advanced standing examinations are a means by which a student may receive credit for certain courses by examination. Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are available for challenge of some courses in the pre-nursing curriculum. No more than 31 hours in the lower division may be challenged and applied toward the Bachelor of Science in Nursing degree.

**Registered Nurse Students**
Southwestern Oklahoma State University admits registered nurses (R.N.’s) from either diploma or associate degrees in nursing programs who wish to obtain a Bachelor of Science in Nursing degree. The R.N. student may receive credit through advanced standing for 31 hours of upper division nursing coursework. Advanced standing is accomplished through articulation under the statewide articulation plan. All R.N. students must meet University admission requirements. Faculty believe the R.N. student has demonstrated adequate knowledge of pre-professional coursework to obtain either an associate degree or a diploma in nursing. Therefore, the faculty believe that the R.N. student need not be constrained by the prescriptive schedule designed for the generic student. The R.N. student’s education may therefore be facilitated by allowing the student to take pre-professional courses at any time and in any sequence prior to graduation.

**Application and Selection (R.N. to B.S.N.)**
The registered nurse student may make application for admission to the Nursing program anytime after official admission to the University. Criteria for admission to the nursing R.N. to B.S.N. program include a retention GPA of 2.50 (on a 4.0 scale) for all previous college/university work and a current nursing license as a registered nurse. Applicants for the R.N. to B.S.N. program with permanent residences other than Oklahoma must contact the School of Nursing to determine eligibility. The procedure for admission to the Nursing program and the application deadlines are available from the School of Nursing.

Preference of non-nurse applicants is given in the selection process to Oklahoma residents who have completed their Pre-Nursing course requirements at SWOSU; Oklahoma residents completing their Pre-Nursing course requirements at other universities and colleges; and other citizens and permanent residents of the United States who have completed their Pre-Nursing course requirements at SWOSU.

After acceptance into the Nursing program, the student plans the completion of the B.S. in Nursing degree with an assigned nursing faculty advisor. R.N.’s may take pre-professional courses in any sequence. Upper division nursing courses can be taken in any sequence with the exception of NURS-4603 Bridging Nursing Paradigms, which must be taken the first semester of nursing course work and NURS-4693 Issues and Concepts for Professional Nursing which must be taken in the final semester of nursing course work. A grade of “C” must be achieved in certain pre-professional courses. The R.N. must complete the degree within five (5) years following acceptance into the Nursing program. All R.N. to B.S.N. students attend class sections open to registered nurses only. All courses are taught online and are
designed specifically for the R.N. returning for a baccalaureate degree.

**Application and Selection (M.S.N.)**

Southwestern Oklahoma State University Bachelor of Science in Nursing (BSN) to Master of Science in Nursing (MSN) program is for nurses who have graduated with a bachelor's degree or diploma from an accredited nursing program (CCNE or ACEN, formerly NLNAC), or those who are in the last semester of their BSN degree. To verify that your program is ACEN accredited, please visit their website at http://www.acenursing.net/. To verify CCNE accreditation, go to http://www.aacn.nche.edu/ccne-accreditation/accredited-programs. Applicants who do not reside in Oklahoma should first ensure that they are a resident of a SARA-approved state: http://nc-sara.org/sara-states-institutions

All MSN students must meet University admission and Graduate admission requirements. The MSN curriculum builds upon previous nursing and general education coursework. The program is designed to support educational mobility and to strengthen professional growth and leadership abilities of nurses who already have a foundation in the profession.

Application to the nursing program may be made at any time after official admission to the University: http://www.swosu.edu/admissions/apply. Criteria for admission to the nursing BSN to MSN program include a retention GPA of 3.0 or above on a 4.0 scale for all previous college/university work. Prospective students must possess a registered nursing license or obtain one within their first semester of coursework. Applications by those who are in their last semester of Bachelor's Degree nursing programs are welcomed, however, students must submit proof of licensure prior to application or within their first semester of coursework. Qualified applicants are admitted to the program on date of completed and approved application. Applications will be retained only for the application cycle in which they were initiated. For example, students who apply for spring admission, but who does not complete the process and enroll for spring or notify the school in writing of their wish to defer admission to summer, would need to make a new application to be considered for future admission. Please note the application must be completed and the applicant must be enrolled by the deadline, or the applicant may not attend classes until the next semester.

After acceptance into the nursing program, the student will be assigned a faculty advisor, who will contact the student to develop a plan of study for program completion. The student must complete the MSN degree within five (5) years after beginning the nursing program.

**Retention and Promotion of a Student in Nursing**

1. Retention of a nursing student in good standing is dependent upon:
   a. Maintenance of a retention grade point average of 2.00 or better.
   b. Maintenance of a cumulative grade point average of 2.00 or better in nursing courses.
   c. Earning a “C” or better in each prerequisite.
   d. Earning a “C” or better in each nursing course.

2. In order for a student to receive a passing grade in any nursing course, the student must receive a “C” or better in both clinical/laboratory experience and theory. If the clinical/laboratory experience takes place in more than one facility, there must be a passing grade (“C” or better) for the student's performance at each facility.

3. Policy concerning promotion: If at the end of a semester, a student fails to maintain a retention grade point average of 2.00 AND a cumulative grade point average of 2.00 in all nursing courses, the student will be placed on academic probation. (See the School of Nursing Student Handbook regarding details of retention and promotion.)

**Advisement**

Each student enrolled in pre-nursing and/or the professional component is assigned a faculty advisor. The faculty advisor assists the student in developing, following, and updating, as necessary, the individual curriculum plan for each student. The student, however, has final responsibility for adherence to curriculum requirements.

**Requirements for Graduation**

Each student must meet University requirements for a bachelor's degree. The minimum number of credit hours required for graduation is 120 semester hours, the last 30 hours of which must have been completed at Southwestern Oklahoma State University.

Each M.S.N. student must meet University requirements for a master’s degree. The number of credit hours required for an M.S.N. in any of the three tracks is 33 hours. All hours must have been completed at Southwestern Oklahoma State University.

**Requirements for Licensure to Practice Profession**

The Southwestern Oklahoma State University School of Nursing is approved by the Oklahoma Board of Nursing. Graduates of this state-approved program are eligible to apply to write the National Council Licensure Examination (NCLEX) for (registered or practical) nurses. Applicants for Oklahoma licensure must meet all state and federal requirements to hold an Oklahoma license to practice nursing. In addition to completing a state-approved nursing education program that meets educational requirements and successfully passing the licensure examination, requirements include submission of an application for licensure, a criminal history records search, and evidence of citizenship or qualified alien status. Applicants for practical nurse licensure must also hold a high school diploma or a graduate equivalency degree (G.E.D.) [59 O.S. §567.5 & 567.6].

To be granted a license, an applicant must have the legal right to be in the United States (United States Code Chapter 8, Section 1621). In addition, Oklahoma law only allows a license to be issued to U.S. citizens, U.S. nationals, and legal permanent resident aliens. Other qualified aliens may be issued a temporary license that is valid until the expiration of their visa status, or if there is no expiration date, for one year.

Applicants who are qualified aliens must present to the Board office, in person, valid documentary evidence of:

1. A valid, unexpired immigrant or nonimmigrant visa status for admission into the United States;
2. A pending or approved application for asylum in the United States;
3. Admission into the United States in refugee status;
4. A pending or approved application for temporary protected status in the United States;
5. Approved deferred action status; or
6. A pending application for adjustment of status to legal permanent resident status or conditional resident status.

The Board has the right to deny a license to an individual with a history of criminal background, disciplinary action on any
Emphasis in nursing is placed on the changing role of the professional nurse.
Men and women who enter the nursing profession have numerous opportunities as generalists in a variety of settings, as well as have a foundation to continue in graduate education for specialized areas of nursing.

Careers in nursing cover many diversified areas. Nurses today work with many different individuals and groups, such as, infants, children, adults, and the elderly in a variety of settings including hospitals, communities, schools, homes, clinics, industry, prisons and military installations, both home and abroad.

Professional or occupational license or certification, or judicial declaration of mental incompetence [59 O.S. §567.8]. These cases are considered on an individual basis at the time application for licensure is made, with the exception of felony convictions. An individual with a felony conviction cannot apply for licensure for at least five years after completion of all sentencing terms, including probation and suspended sentences, unless a presidential or gubernatorial pardon is received [59 O.S. §567.5 & 567.6].

Careers in Nursing
Since health care delivery is constantly changing, the role of the nurse in the delivery of health care continues to change.
# Bachelor of Science in Nursing

**GENERAL EDUCATION**

Courses that are required for the major are in bold type. Courses that are recommended are in italics.

**TOTAL GENERAL EDUCATION HOURS**  Min. 40  
**REQUIRED CORE COURSES** 31-35

**Written Communication** 6

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**Mathematics** 3

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<td>MATH 1153</td>
<td>Mathematical Applications</td>
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<tr>
<td>MATH 1513</td>
<td>College Algebra (required for 502 major)*</td>
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**U. S. History** 3

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<td>U.S. History since 1877</td>
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**American Government** 3

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**Science** 8

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<td>COMM 1263</td>
<td>Introduction to Theatre</td>
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<td>LIT 2333</td>
<td>Introduction to Film</td>
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<tr>
<td>LIT 2413</td>
<td>Introduction to Literature</td>
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<td>MUSIC 1013</td>
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<td>MUSIC 1103</td>
<td>Music and Culture</td>
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<td>PHILO 1453</td>
<td>Introduction to Philosophy</td>
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**Humanities** 6

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</tbody>
</table>

**Psychology** 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 1003</td>
<td>General Psychology*</td>
</tr>
</tbody>
</table>

**Computer Proficiency** 0-3

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

**GE electives (from at least two different categories)*** to total 40

Minimum credit hours for graduation 124

Minimum credit hours in the liberal arts & sciences 40

Minimum credit hours in upper-division (3000/4000 courses) 40

Minimum credit hours in major completed at SWOSU 8

Minimum credit hours at SWOSU (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

---

**Nursing Major** (Code No. 502)

**Pre-Professional Requirements** 24

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALHLT 2453</td>
<td>Medical Terminology*</td>
</tr>
<tr>
<td>ALHLT 4355</td>
<td>Microbiology*</td>
</tr>
<tr>
<td>BIOL 3704</td>
<td>Human Anatomy*</td>
</tr>
<tr>
<td>BIOL 3904</td>
<td>Human Physiology*</td>
</tr>
<tr>
<td>NURS 2212</td>
<td>Introduction to Professional Nursing*</td>
</tr>
<tr>
<td>PSYCH 2433</td>
<td>Psychological Statistics*</td>
</tr>
<tr>
<td>OR ALHLT 3043</td>
<td>Health Statistics*</td>
</tr>
<tr>
<td>PSYCH 3213</td>
<td>Developmental Psychology or a lifespan growth and development course*</td>
</tr>
</tbody>
</table>

**Professional Requirements** 60

**Major Professional**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 3126</td>
<td>Community Nursing</td>
</tr>
<tr>
<td>NURS 3126L</td>
<td>Community Nursing Clinical</td>
</tr>
<tr>
<td>NURS 3156</td>
<td>Fundamentals of Nursing</td>
</tr>
<tr>
<td>NURS 3156L</td>
<td>Fundamentals of Nursing Clinical</td>
</tr>
<tr>
<td>NURS 3236</td>
<td>Acute and Chronic Care I</td>
</tr>
<tr>
<td>NURS 3236L</td>
<td>Acute and Chronic Care I Clinical</td>
</tr>
<tr>
<td>NURS 3256</td>
<td>Child Health Nursing</td>
</tr>
<tr>
<td>NURS 3256L</td>
<td>Child Health Nursing Clinical</td>
</tr>
<tr>
<td>NURS 3273</td>
<td>Nursing Research</td>
</tr>
<tr>
<td>NURS 3283</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>NURS 4143</td>
<td>Challenges Nurses in Today’s HC Systems</td>
</tr>
<tr>
<td>NURS 4286</td>
<td>Nursing Leadership</td>
</tr>
<tr>
<td>NURS 4286L</td>
<td>Nursing Leadership Clinical</td>
</tr>
<tr>
<td>NURS 4346</td>
<td>Acute and Chronic Care II</td>
</tr>
<tr>
<td>NURS 4346L</td>
<td>Acute and Chronic Care II Clinical</td>
</tr>
<tr>
<td>NURS 4356</td>
<td>Family Health</td>
</tr>
<tr>
<td>NURS 4356L</td>
<td>Family Health Clinical</td>
</tr>
<tr>
<td>NURS 4376</td>
<td>Psychosocial Nursing</td>
</tr>
<tr>
<td>NURS 4376L</td>
<td>Psychosocial Nursing Clinical</td>
</tr>
<tr>
<td>NURS 4383</td>
<td>Elective</td>
</tr>
<tr>
<td>NURS 4383L</td>
<td>Elective Clinical</td>
</tr>
</tbody>
</table>

**Total Hours** 124

---

R.N. to B.S.N.: pre-professional and professional requirements will vary from traditional student requirements. R.N.’s should contact the School of Nursing for course substitutions/transfer information.

**R. N. to B. S. N.** (Code No. 504)

**Courses may be taken in any sequence unless otherwise indicated**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALHLT 2453</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>ALHLT 4355</td>
<td>Microbiology</td>
</tr>
<tr>
<td>BIOL 3704</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>BIOL 3904</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>PSYCH 2433</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td>OR ALHLT 3043</td>
<td>Health Statistics</td>
</tr>
<tr>
<td>OR NURS 4502</td>
<td>Statistics for Nursing Research</td>
</tr>
<tr>
<td>PSYCH 3213</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>OR a lifespan growth and development course</td>
<td></td>
</tr>
</tbody>
</table>

**Free Electives** 3

**Articulation credits** 30-31

**Professional Requirements R.N. to B.S.N. Students** 30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 4603</td>
<td>Bridging Nursing Paradigms†</td>
</tr>
<tr>
<td>NURS 4613</td>
<td>Nursing Statistics &amp; Evidence-Based Practice</td>
</tr>
<tr>
<td>NURS 4623</td>
<td>Wellness Through Health Promotion</td>
</tr>
<tr>
<td>NURS 4633</td>
<td>Ethics and Caring</td>
</tr>
<tr>
<td>NURS 4643</td>
<td>Theory and Practice Elective</td>
</tr>
<tr>
<td>NURS 4653</td>
<td>Nursing Informatics</td>
</tr>
<tr>
<td>NURS 4663</td>
<td>Comm Nrsng Across the Hlth Continuum</td>
</tr>
<tr>
<td>NURS 4673</td>
<td>Contemporary Nursing Leadership</td>
</tr>
<tr>
<td>NURS 4683</td>
<td>Advanced Physical Assessment</td>
</tr>
<tr>
<td>NURS 4693</td>
<td>Issues &amp; Concepts for Prof Nursing‡</td>
</tr>
</tbody>
</table>

**Total Hours** 124

---

* A grade of C or better is required in these courses
† Must be taken first semester of nursing coursework
‡ Must be taken last semester of nursing coursework
# BACHELOR OF SCIENCE IN NURSING (Code 502)

## Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1001 Freshman Orientation* (1)</td>
<td>1004 General Chem w/Lab (4)</td>
</tr>
<tr>
<td>1003 General Psychology (3)</td>
<td>1023 Comp/Info Access (3)</td>
</tr>
<tr>
<td>1004 Biology Concepts w/Lab (4)</td>
<td>1213 English Comp II (3)</td>
</tr>
<tr>
<td>1043 or 1053 U.S. History (3)</td>
<td>2453 Medical Terminology (3)</td>
</tr>
<tr>
<td>1113 English Comp I (3)</td>
<td>xxx3 Humanities Course (3)</td>
</tr>
<tr>
<td>1513 College Algebra (3)</td>
<td>Total (16)</td>
</tr>
<tr>
<td>Total (17)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>1033 World History (3)</td>
<td>2212 Intro to Nursing (2)</td>
</tr>
<tr>
<td>1103 American Gov &amp; Politics (3)</td>
<td>3213 Developmental Psych (3)</td>
</tr>
<tr>
<td>1103 Intro to Humanities</td>
<td>3704 Human Phys w/Lab (4)</td>
</tr>
<tr>
<td>OR 1033 World History (3)</td>
<td>4355 Microbiology w/Lab (5)</td>
</tr>
<tr>
<td>2433 Psych Stats</td>
<td>xxxx Elective (2-3)</td>
</tr>
<tr>
<td>OR 3043 Health Stats (3)</td>
<td></td>
</tr>
<tr>
<td>3704 Human Anatomy w/Lab (4)</td>
<td>Total (16-17)</td>
</tr>
<tr>
<td>Total (16)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>3126 Community Nursing (6)</td>
<td>3236 Acute and Chronic Care (6)</td>
</tr>
<tr>
<td>3156 Fundamentals of Nursing (6)</td>
<td>3256 Child Health Nursing (6)</td>
</tr>
<tr>
<td>3283 Pharmacology (3)</td>
<td>3273 Nursing Research (3)</td>
</tr>
<tr>
<td>Total (15)</td>
<td>Total (15)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td><strong>SECOND SEMESTER</strong></td>
</tr>
<tr>
<td>4143 Challenges Nurses in Today's HC Systems (3)</td>
<td>3273 Nursing Research (3)</td>
</tr>
<tr>
<td>4346 Acute &amp; Chronic Care II (6)</td>
<td>4286 Nursing Leadership (6)</td>
</tr>
<tr>
<td>4356 Family Health (6)</td>
<td>4376 Psychosocial Nursing (6)</td>
</tr>
<tr>
<td>Total (15)</td>
<td>Total (15)</td>
</tr>
</tbody>
</table>

*First time entering Freshmen need to take 1001 Freshman Orientation.
<table>
<thead>
<tr>
<th>Minor Programs of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian Studies</td>
</tr>
<tr>
<td>Art</td>
</tr>
<tr>
<td>Art History</td>
</tr>
<tr>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Chemistry</td>
</tr>
<tr>
<td>Communication Arts</td>
</tr>
<tr>
<td>Criminal Justice</td>
</tr>
<tr>
<td>Economics</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Graphic Design</td>
</tr>
<tr>
<td>History</td>
</tr>
<tr>
<td>International Studies</td>
</tr>
<tr>
<td>Mathematics</td>
</tr>
<tr>
<td>Multidisciplinary Studies</td>
</tr>
<tr>
<td>Music</td>
</tr>
<tr>
<td>Physical Science</td>
</tr>
<tr>
<td>Physics</td>
</tr>
<tr>
<td>Political Science</td>
</tr>
<tr>
<td>Pre-Law</td>
</tr>
<tr>
<td>Professional Writing</td>
</tr>
<tr>
<td>Public Relations</td>
</tr>
<tr>
<td>Sociology</td>
</tr>
<tr>
<td>Spanish</td>
</tr>
<tr>
<td>Statistics</td>
</tr>
<tr>
<td>World Languages</td>
</tr>
</tbody>
</table>
### MINOR PROGRAMS OF STUDY IN THE COLLEGE OF ARTS AND SCIENCES

#### AMERICAN INDIAN STUDIES

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLSC 4013 Tribal Government I</td>
<td>12</td>
</tr>
<tr>
<td>HIST 4103 American Indians</td>
<td></td>
</tr>
<tr>
<td>HIST 4313 American West</td>
<td></td>
</tr>
<tr>
<td>HIST 4353 History of Oklahoma</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**: 6
- ACCTG 1123 Introduction to Accounting
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ENTRP 1123 Introduction to Business
- KINES 1153 Nutrition
- KINES 3393 Nutrition for Children
- KINES 4013 Nat Amer Wellness Concepts: Exercise
- LIT 3513 Literature of the American West
- LIT 4593 Diversity in American Literature

**Total**: 18

#### ART

**Required Courses**: 7
- ART 1123 Foundations I
- ART 1133 Foundations II
- ART 1661 Computer Applications

**Art History**: 3
- Any 3000-4000 level Art History course

**Approved Elective Art Courses**: 9

**TWO-DIMENSIONAL STUDIO AREA**: 4
- ART 2113 Acrylic Techniques
- ART 3113 Watercolor Studio
- ART 3153 Figure Drawing
- ART 3483 Printmaking Studio
- ART 3753 Life Drawing
- ART 4313 Painting Studio
- ART 4333 Studio Drawing

**GRAPHIC DESIGN AREA**: 3
- ART 2133 Introduction to Graphic Design
- ART 2143 History & Theory of Graphic Design
- ART 3513 Intermediate Graphic Design I
- ART 3683 Illustration Studio
- ART 3783 Intermediate Graphic Design II
- ART 3853 Typographic Design
- ART 3923 Advanced Graphic Design I
- ART 4413 Advanced Graphic Design II

**THREE-DIMENSIONAL STUDIO AREA**: 4
- ART 3253 Clay Studio
- ART 3383 Mixed Media
- ART 3413 Sculpture Studio
- ART 4253 Applied Design

**Total**: 19

#### ART HISTORY

**Required Courses**: 18
- Any 3000-4000 level Art History course

**Total**: 18

#### BIOLOGICAL SCIENCES

**Required Courses**: 8
- BIOL 1054 Principles of Biology I
- BIOL 1254 Principles of Biology II

**Electives**: 12
- Seven to eight hours of electives must be selected from the following laboratory courses:
  - BIOL 3152 Gen & Cell Bio Lab*
  - BIOL 4314 Environ Biology
  - BIOL 3253 Genetics
  - BIOL 4355 Microbiology
  - BIOL 3304 Aquatic Ecology
  - BIOL 4404 Pathogenic Microbiology
  - BIOL 3504 Biology of Insects
  - BIOL 4454 Plant Taxonomy
  - BIOL 3704 Human Anatomy
  - BIOL 4523 Environ Microbiology
  - BIOL 3814 Biology of Plants
  - BIOL 4604 Terrestrial Ecology
  - BIOL 3904 Human Physiology
  - BIOL 4864 Human Genetics
  - BIOL 4154 Develop Biology
  - BIOL 4914 Gen & Comp Physiology
  - BIOL 4204 Vertebrate Biology
  - BIOL 4935 Cell & Molecular Biology
  - BIOL 4254 Invertebrate Biology
  - BIOL 4944 Neuroscience
  - BIOL 4284 Parasitology
  - BIOL 4974 Histology

* Enroll in BIOL 3253 Genetics concurrently

**Four to five hours of additional electives must be selected from the above list of courses OR the following**: 20
- BIOL 3012 Biol Terminology
- BIOL 4463 Virology
- BIOL 3053 Cell Biology
- BIOL 4503 Microbial Physiology
- BIOL 3283 Ecology
- BIOL 4523 Environ Microbiology
- BIOL 4213 Immunology
- BIOL 4622 Econo Import Plants
- BIOL 4343 Applied Microbiology
- BIOL 4853 Evolution

**Total**: 20

#### CHEMISTRY

**Required Courses**: 10
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab

**Electives (CHEM 2000 or above)**: 10†

**Total**: 20

†CHEM 2012 – Problem Solving in Organic Chemistry, does not satisfy minor elective requirement.

#### COMMUNICATION ARTS

**Required Courses**: 9
- COMM 1263 Intro to Theatre
- COMM 2103 Intro to Mass Communication
- COMM 2123 Interpersonal Communication

**Electives from Communication Arts**: 12

**Total**: 21

#### CRIMINAL JUSTICE

**Required Courses**: 12
- CRMJ 1113 Introduction to Criminal Justice
- CRMJ 1223 Intro to Law Enforcement
- CRMJ 4003 Criminal Justice
- CRMJ 4153 U.S. Corrections

**Electives from**: 6
- CRMJ 2503 Criminal Justice Administration
- CRMJ 3163 Sociology of Deviant & Crim Behavior
- CRMJ 3243 Comparative Criminal Justice Systems
- CRMJ 3353 The Criminal Mind
- CRMJ 3803 Privatization of Criminal Justice
- CRMJ 4103 Juvenile Justice
- CRMJ 4143 Critical Issues in Criminal Justice
- CRMJ 4333 Victimology
- CRMJ 4913 Internship in Criminal Justice
- SOCIO 3043 Racial and Cultural Minorities
- SOCIO 4033 Advanced Analysis of Social Problems

**Total**: 18

#### ECONOMICS

**Required Courses**: 6-9
- ECONO 2263** Principles of Macroeconomics
- ECONO 2363** Principles of Microeconomics
- ECONO 2463 Business Statistics
- OR SOCSC 3853 Statistics for Social Sciences

**If taken for General Education, the hours will not count towards Economics minor.**

**Electives**: 9-12
- ECONO 3863 Money and Banking
- ECONO 4003 Independent Study in Economics
- ECONO 4013 Seminar in Economics
- ECONO 4563 Managerial Economics
- ECONO 4963 International Economics

**Total**: 18

---

241
ENGLISH  CODE 112

**Literature Emphasis**
Prerequisites: ENGL 1213 Composition II

<table>
<thead>
<tr>
<th>Required Literature Courses</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Literature Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Any 3000-4000 level ENGL Course

Total .............................................................. 18

**Writing Emphasis**
Prerequisites: ENGL 1213 Composition II

<table>
<thead>
<tr>
<th>Required Writing Courses</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Literature Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Any 3000-4000 level LIT Course

Total .............................................................. 18

**GRAPHIC DESIGN**  CODE 102

Required Courses .................................................. 10

<table>
<thead>
<tr>
<th>ART</th>
<th>1123  Foundations I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>1133  Foundations II</td>
</tr>
<tr>
<td>ART</td>
<td>1661  Computer Applications</td>
</tr>
<tr>
<td>ART</td>
<td>2133  Introduction to Graphic Design</td>
</tr>
</tbody>
</table>

Graphic Design Courses ........................................ 9

<table>
<thead>
<tr>
<th>ART</th>
<th>3513  Intermediate Graphic Design I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>3783  Intermediate Graphic Design II</td>
</tr>
<tr>
<td>ART</td>
<td>3853  Typographic Design</td>
</tr>
<tr>
<td>ART</td>
<td>3923  Advanced Graphic Design I</td>
</tr>
<tr>
<td>ART</td>
<td>4163  Portfolio</td>
</tr>
<tr>
<td>ART</td>
<td>4413  Advanced Graphic Design II</td>
</tr>
</tbody>
</table>

Total .............................................................. 19

**HISTORY**  CODE 120

Required courses ............................................... 18

<table>
<thead>
<tr>
<th>HIST 1043  U.S. History to 1877</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR HIST 1053 U.S. History since 1877 (one not taken in G.E.)</td>
</tr>
<tr>
<td>Upper level American (nine hours)</td>
</tr>
<tr>
<td>Upper level European and/or World (six hours)</td>
</tr>
</tbody>
</table>

Total .............................................................. 18

**INTERNATIONAL STUDIES**  CODE 131

Note: Political Science Majors may not Minor in International Studies.

Prerequisites: GEOG 1103 World Cultural Geography

HIST 1033 World History

Required Courses:

Part A: Required Core Courses .................................. 12

<table>
<thead>
<tr>
<th>POLSC</th>
<th>2303  Comparative Politics</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLSC</td>
<td>3163  Prim of International Relations</td>
</tr>
<tr>
<td>POLSC</td>
<td>4303  International Organizations</td>
</tr>
<tr>
<td>POLSC</td>
<td>4253  International Law</td>
</tr>
</tbody>
</table>

Electives ......................................................... 9

<table>
<thead>
<tr>
<th>ART</th>
<th>3613  History of Art I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>3653  History of Art II</td>
</tr>
<tr>
<td>ECONO</td>
<td>4963  International Economics</td>
</tr>
<tr>
<td>HIST</td>
<td>3193  The European Union</td>
</tr>
<tr>
<td>HIST</td>
<td>3603  20th Century World History</td>
</tr>
<tr>
<td>POLSC</td>
<td>4033  Government Internship</td>
</tr>
<tr>
<td>SPAN</td>
<td>3653  Intern Span Convrs</td>
</tr>
<tr>
<td>LIT</td>
<td>4113  Modern World Lit</td>
</tr>
</tbody>
</table>

Total .............................................................. 21

**MATHMATICS**  CODE 134

Required Courses ................................................ 13-14

<table>
<thead>
<tr>
<th>MATH</th>
<th>1715  College Algebra &amp; Trigonometry</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR MATH 1513 and MATH 1613</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>1834  Calculus I</td>
</tr>
<tr>
<td>MATH</td>
<td>2834  Calculus II</td>
</tr>
</tbody>
</table>

Electives (Senior College Mathematics) .................................. 4-5

(3000-4000 Level Courses)

Total .............................................................. 18

**MULTIDISCIPLINARY STUDIES**  CODE 191

Multidiscipline Area Total ......................................... 18

- Choose only one Multidiscipline Area.
- Courses used to satisfy General Education requirements cannot be counted in the minor.
- Course selection is made from the list of courses that are identified in the disciplines in the Interdisciplinary Studies Major.
- Practicum and internship courses are not appropriate for this minor.

**MUSIC**  CODE 149

Required Courses .................................................. 16

<table>
<thead>
<tr>
<th>MUSIC 1013  Introduction to Music I</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR 1103 Music and Culture</td>
</tr>
<tr>
<td>MUSIC 1213  Music Theory I</td>
</tr>
<tr>
<td>MUSIC 1221  Aural Skills I</td>
</tr>
<tr>
<td>MUSIC 2981  Principles of Conducting</td>
</tr>
<tr>
<td>Applied music, principal area: 4 hours</td>
</tr>
<tr>
<td>Secondary area: 2 hours</td>
</tr>
<tr>
<td>Music ensembles: 2 hours</td>
</tr>
<tr>
<td>(Minors must complete Level I of the applied music proficiency exam in their principal area.)</td>
</tr>
<tr>
<td>Recital Attendance 4900 (minimum of three enrollments with passing grade)</td>
</tr>
</tbody>
</table>

Electives .......................................................... 5

Select from the following:

<table>
<thead>
<tr>
<th>MUSIC 1313  Music Theory II</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1321  Aural Skills II</td>
</tr>
<tr>
<td>MUSIC 2222  Recreational Music</td>
</tr>
<tr>
<td>MUSIC 3101  Instrumental Conducting</td>
</tr>
<tr>
<td>MUSIC 3151  Choral Conducting</td>
</tr>
<tr>
<td>MUSIC 3353  History of Music I</td>
</tr>
<tr>
<td>MUSIC 3403  History of Music II</td>
</tr>
<tr>
<td>MUSIC 4213  Music Therapy II-Special Education</td>
</tr>
<tr>
<td>MUSIC 4261  Intro to Music Technology</td>
</tr>
</tbody>
</table>

Total .............................................................. 21

**PHYSICAL SCIENCE**  CODE 157

Required Courses .................................................. 20

<table>
<thead>
<tr>
<th>CHEM 1203  General Chemistry I</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1252  General Chemistry I Lab</td>
</tr>
<tr>
<td>CHEM 1303  General Chemistry II</td>
</tr>
<tr>
<td>CHEM 1352  General Chemistry II Lab</td>
</tr>
<tr>
<td>CHEM 2114  Organic Biochemistry</td>
</tr>
<tr>
<td>CHEM 3013  Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 3111  Organic Chemistry Lab</td>
</tr>
<tr>
<td>*PHY 1044  Basic Physics I</td>
</tr>
<tr>
<td>*PHY 1054  Basic Physics II</td>
</tr>
<tr>
<td>*PHY 2145  General Physics I</td>
</tr>
<tr>
<td>*PHY 2155  General Physics II</td>
</tr>
<tr>
<td>PHY 3403  Modern Physics for Engineers</td>
</tr>
<tr>
<td>PHY 3411  Modern Physics Lab</td>
</tr>
<tr>
<td>PHY 3501  Physics Seminar</td>
</tr>
</tbody>
</table>

*Students can choose Basic Physics I and II (1044 & 1054) sequence or General Physics I and II (2145 & 2155) sequence, but not both.
PHYSICS  CODE 152
Required Courses .............................................................................. 13
PHY 2145 General Physics I .................................................................
PHY 2155 General Physics II ............................................................... 17
PHY 3403 Modern Physics for Engineers ............................................. 9
Prerequisites ........................................................................................ 17
MATH 1715 College Algebra & Trigonometry .....................................
MATH 1834 Calculus I ...........................................................................
MATH 2834 Calculus II .......................................................................... 22
MATH 3834 Calculus III ........................................................................
Total .....................................................................................................

POLITICAL SCIENCE  CODE 156
Required courses ................................................................................ 12
Part A. CHOOSE FOUR OF THE FOLLOWING:
POLS 2303 Comparative Politics ....................................................... 13
POLS 2803 The Judicial Process ............................................................. 13
POLS 3003 Federal Constitution ............................................................ 13
POLS 3033 Political Parties ................................................................. 13
POLS 3113 Political Theory ................................................................. 13
POLS 3323 Legislative-Executive Relations ........................................ 13
Electives ................................................................................................ 6
(Total for a minor must be selected from at least two fields of political science.)
Part B. CHOOSE TWO COURSES FROM THE FOLLOWING:
(You may not choose more than one course from any concentration)
Public Law Concentration:
POLS 2623 Criminal Law & Procedure .............................................. 13
POLS 4253 International Law .............................................................. 13
POLS 4613 Civil Rights/Liberties .......................................................... 13
International Relations Concentration:
POLS 3163 Principles of International Relations ................................ 13
POLS 3353 Model United Nations I ..................................................... 13
OR POLS 3373 Model United Nations II ............................................. 13
POLS 4303 International Organizations ............................................. 13
Urban & Minority Politics Concentration:
POLS 3343 Women & Politics ............................................................. 13
POLS 4233 Urban Politics & Election Systems .................................... 13
Public Administration & Public Policy Concentration:
POLS 3363 Public Admin. Theory & Practice ....................................... 13
POLS 4403 Public Policy Formation ................................................... 13
POLS 4933 Government Internship ..................................................... 13
Total ..................................................................................................... 18

PRE-LAW  CODE 169
Note: Political Science majors may not minor in Pre-Law
Part A. REQUIRED CORE COURSES .................................................. 15
POLS 2623 Criminal Law & Procedure .............................................. 13
POLS 2803 The Judicial Process .......................................................... 13
POLS 3003 Federal Constitution ......................................................... 13
POLS 3323 Legislative-Exec. Relations ................................................ 13
POLS 4613 Civil Rights & Liberties ...................................................... 13
Electives .............................................................................................. 3
Part B. CHOOSE ONE OF THE FOLLOWING COURSES:
CRJS 1113 Introduction to Criminal Justice ...................................... 13
CRJS 2503 Criminal Justice Administration ...................................... 13
CRJS 3243 Comparative Criminal Justice Systems ................................ 13
CRJS 4143 Critical Issues in Criminal Justice ...................................... 13
HIST 3103 Medieval England ............................................................. 13
POLS 4253 International Law ............................................................... 13
Total ..................................................................................................... 18

PROFESSIONAL WRITING  CODE 220
Choose from the following courses to total ..................................... 18
COMM 2113 Writing for Mass Media ................................................. 13
COMM 3313 Feature Writing .............................................................. 13
COMM 4823 Writing for Public Relations ......................................... 13
ENGL 3013 Writing: Theory and Practice ......................................... 13
ENGL 3603 English Grammar ............................................................. 13
ENGL 3653 Writing in the Disciplines ................................................ 13
ENGL 3663 Creative Nonfiction I .......................................................... 13
ENGL 4453 Advanced Composition .................................................... 13
ENGL 4773 Editing ............................................................................. 13
ENTRP 3423 Business Communication ............................................. 13
HIST 2603 Writing History ................................................................. 13
ORGL 3223 Professional Communication ...................................... 13
TECH 3143 Technical Presentations ................................................ 13
Total ..................................................................................................... 18

PUBLIC RELATIONS  CODE 147
Required Courses ................................................................................ 18
COMM 4813 Principles of PR .............................................................. 13
COMM 4823 Writing for PR ................................................................. 13
COMM 4833 Principles of Advertising .............................................. 13
MRKTG 3143 Principles of Marketing .............................................. 13
MRKTG 3243 Promotional Strategy .................................................... 13
MRKTG 3443 Consumer Behavior ................................................... 13
Total ..................................................................................................... 18

SOCIOLOGY  CODE 170
Required Courses ................................................................................ 12
SOCIO 1003 Intro to Sociology ............................................................ 13
SOCIO 3163 Sociology of Deviant & Criminal Behavior ..................... 13
SOSC 3043 Racial & Cultural Minorities ........................................... 13
SOSC 4033 Advanced Analysis of Social Problems ............................ 13
Electives .............................................................................................. 6
CRMS 1113 Intro to Criminal Justice .................................................. 13
CRMS 1223 Intro to Law Enforcement .............................................. 13
CRMS 2503 Criminal Justice Administration .................................... 13
CRMS 3163 Sociology of Deviant & Crime Behavior ......................... 13
CRMS 3243 Comparative Criminal Justice Systems ......................... 13
CRMS 3353 The Criminal Mind .......................................................... 13
CRMS 3803 Privatization of Criminal Justice ..................................... 13
CRMS 4023 Criminology ................................................................. 13
CRMS 4103 Juvenile Justice .............................................................. 13
CRMS 4143 Critical Issues in Criminal Justice .................................... 13
CRMS 4153 U.S. Corrections .............................................................. 13
CRMS 4333 Victimology ................................................................. 13
CRMS 4913 Internship in Criminal Justice ........................................ 13
POLS 3113 Political Theory ............................................................... 13
POLS 4403 Public Policy Formation ................................................... 13
POLS 4613 Civil Rights & Liberties ..................................................... 13
Other Social Science courses as approved by Criminal Justice faculty.

SPANISH  CODE 180
Required Courses ................................................................................ 19
SPAN 1154 Elementary Spanish II .................................................... 13
SPAN 2053 Intermediate Spanish I .................................................... 13
SPAN 2153 Intermediate Spanish II .................................................. 13
SPAN 3653 Intermediate Spanish Conversation ................................ 13
SPAN 3553 Hispanic Life and Culture .............................................. 13
SPAN 3753 Readings in Spanish ......................................................... 13
Electives .............................................................................................. 2
SPAN 3013 Spanish for Law Enforcement ....................................... 13
SPAN 3023 Spanish for Healthcare Professionals ............................. 13
SPAN 3853 Intern Span Comp & Grammar ........................................ 13
SPAN 4923 Teachers Course in World Languages ............................ 13
Total ..................................................................................................... 21-22
NOTE: Students minoring in Spanish should select SPAN 1054 as a General Education option under “International and Cultural Studies,” if possible.

STATISTICS  CODE 187
Required Courses ................................................................................ 8-10
MATH 1715 College Algebra & Trigonometry .....................................
(OR MATH 1513 AND MATH 1613) .................................................. 13
MATH 1834 Calculus I ...........................................................................
(OR MATH 2823) .............................................................................. 13
Electives .............................................................................................. 8-10
Statistics and Probability (9 hours) ................................................... 13
MATH (one hour) of Statistics Seminar ............................................. 13
Total ..................................................................................................... 18

Continued on next page
WORLD LANGUAGES  

CODE 219  

Required Primary Language ............................................. 8  
    Elementary I and II  

Secondary Language ........................................................... 8  
    Elementary I & II  

Elective Language Course ............................................... 3-4  

Total ................................................................. 19-20
COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

MINOR PROGRAMS OF STUDY

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES
Emergency Medical Services Minor
Health Care Administration Minor
Health Data Analytics Minor
Health Sciences Minor
Health Sciences for Sports Medicine Minor

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION
Athletic Coaching (Non-Certification)
Health and Wellness
Parks and Recreation Management
Parks and Wildlife Law Enforcement
Psychology
  Alcohol and Chemical Dependency Counseling
  Child Development Psychology
  Psychology
  Sports Psychology
  Forensic Psychology
Sports Management
Tactical Leadership
Wildland Fire Management

SCHOOL OF BUSINESS AND TECHNOLOGY
Accounting
Computer Science
Computer Technology
Electronics
Entrepreneurship
Finance
Forensics
General Technology
Information Systems
Management
Marketing
Organizational Leadership
### MINOR PROGRAMS OF STUDY IN THE SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES

<table>
<thead>
<tr>
<th>MINOR PROGRAMS OF STUDY</th>
<th>CODE</th>
<th>REQUIRED COURSES</th>
</tr>
</thead>
</table>
| EMERGENCY MEDICAL SERVICES MINOR | 554 | ALHLT 2045 Emergency Medical Services I  
ALHLT 2055 Emergency Medical Services II  
ALHLT 2066 Advanced Emergency Medical Technician  
ALHLT 2453 Medical Terminology  
ALHLT 3053 Advanced Medical Terminology  
ALHLT 3073 Diagnostics, Drugs & Therapeutics  
ATEP 2633 Cardiac and Emergency Care  
SPAN 3023 Spanish for Healthcare Professionals  
PRM 5122 Wilderness First Aid **AND**  
ALHLT 3861 Health Science Internship (ER setting)  
**Electives:** 9 hours selected from the following  
ALHLT 2066 Advanced Emergency Medical Technician  
ALHLT 2453 Medical Terminology  
ALHLT 3053 Advanced Medical Terminology  
ALHLT 3073 Diagnostics, Drugs & Therapeutics  
ATEP 2633 Cardiac and Emergency Care  
SPAN 3023 Spanish for Healthcare Professionals  
Total: 19 hours |
| HEALTH SCIENCES MINOR | 553 | ALHLT 1401 Allied Health Careers  
ALHLT 2453 Medical Terminology  
ALHLT 4043 Healthcare Law & Ethics  
**OR** ALHLT 3043 Health Statistics  
ALHLT 3073 Diagnostics, Drugs & Therapeutics  
ALHLT 3193 U.S. Healthcare System  
ALHLT 4074 Pathophysiology  
ALHLT 4093 Epidemiology  
Total: 20 hours |
| HEAL THSCIENCE MINOR FOR SPORTS MEDICINE MINOR | 552 | ALHLT 1401 Allied Health Careers  
ALHLT 2453 Medical Terminology  
ALHLT 3043 Health Statistics w/lab  
ALHLT 3073 Diagnostics, Drugs & Therapeutics  
ALHLT 3193 U.S. Healthcare System  
ALHLT 4074 Pathophysiology  
**OR** BIOL 3904 Human Physiology w/lab  
BIOL 3704 Human Anatomy w/lab  
Total: 24 hours |

**HEALTH DATA ANALYTICS MINOR**  
**CODE 551**  
**Required Courses:**  
ALHLT 3043 Health Statistics  
ALHLT 3861 Health Science Internship  
ALHLT 4093 Epidemiology  
HIM 3122 Intro to Elec Health Record  
HIM 3123 Adv Electronic Health Record (Fall Only)  
HIM 4023 Health Info Applications (Spring Only)  
HIM 4073 Health Data Analysis (Spring Only)  
HIM 4113 Healthcare Quality Measures  
**Total: 21 hours**

*ALHLT-3933 should be taken before ALHLT-3963*

**HEALTH CARE ADMINISTRATION MINOR**  
**CODE 550**  
**Required Courses:**  
ALHLT 3043 Health Statistics w/lab  
ALHLT 3183 Cultural Competence in Healthcare  
**OR** ALHLT 3193 U.S. Healthcare System  
ALHLT 3933 Healthcare Management  
ALHLT 3963 Healthcare Project Management  
ALHLT 4043 Healthcare Law & Ethics  
HIM 4113 Healthcare Quality Measures  
**Total: 18 hours**

**HEALTH SCIENCE MINOR**  
**CODE 553**  
**Required Courses:**  
ALHLT 2453 Medical Terminology  
ALHLT 3043 Health Statistics  
ALHLT 3073 Diagnostics, Drugs & Therapeutics  
ALHLT 3193 U.S. Healthcare System  
ALHLT 4074 Pathophysiology  
**Total: 20 hours**

**HEALTH DATA ANALYTICS MINOR**  
**CODE 551**  
**Required Courses:**  
ALHLT 3043 Health Statistics  
ALHLT 3861 Health Science Internship  
ALHLT 4093 Epidemiology  
HIM 3122 Intro to Elec Health Record  
HIM 3123 Adv Electronic Health Record (Fall Only)  
HIM 4023 Health Info Applications (Spring Only)  
HIM 4073 Health Data Analysis (Spring Only)  
HIM 4113 Healthcare Quality Measures  
**Total: 21 hours**

1. Take in first semester  
2. Take in second semester  
3. Take in third semester  
4. Take in fourth semester
# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## ATHLETIC COACHING (Non-Certification) CODE 167

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES 2502</td>
<td>Care &amp; Prevention of Athletic Injury</td>
</tr>
<tr>
<td>KINES 3443</td>
<td>Kinesiology &amp; Anatomy</td>
</tr>
<tr>
<td>KINES 4283</td>
<td>Principles of Coaching</td>
</tr>
<tr>
<td>SPRTM 3523</td>
<td>Leadership in Sports</td>
</tr>
</tbody>
</table>

**Total Required Courses** ................................................................. 11

## Elective Courses ...................................................... 7

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES 1942</td>
<td>Techniques Applied to Individual Sports</td>
</tr>
<tr>
<td>OR KINES 1952</td>
<td>Techniques As Applied to Team Sports</td>
</tr>
</tbody>
</table>

## HEALTH AND WELLNESS CODE 166

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES 1133</td>
<td>Wellness Concepts &amp; Exer App</td>
</tr>
<tr>
<td>KINES 1153</td>
<td>Nutrition</td>
</tr>
<tr>
<td>OR SPRTM 4163</td>
<td>Sports Nutrition</td>
</tr>
<tr>
<td>KINES 2212</td>
<td>First Aid</td>
</tr>
</tbody>
</table>

**Total Required Courses** ................................................................. 8

## Elective Courses ...................................................... 8

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES 1153</td>
<td>Nutrition</td>
</tr>
<tr>
<td>OR SPRTM 4163</td>
<td>Sports Nutrition</td>
</tr>
<tr>
<td>KINES 3353</td>
<td>Health &amp; Aging</td>
</tr>
<tr>
<td>KINES 3553</td>
<td>Kinesiology &amp; Anatomy</td>
</tr>
<tr>
<td>KINES 4212</td>
<td>Weight &amp; Circuit Training</td>
</tr>
<tr>
<td>KINES 4533</td>
<td>Consumer Health Education</td>
</tr>
<tr>
<td>SPRTM 4573</td>
<td>Fitness Program Management</td>
</tr>
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</table>

**Activity Courses** .................................................................. 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES 1351</td>
<td>Bowling</td>
</tr>
<tr>
<td>KINES 1511</td>
<td>Physical Fitness</td>
</tr>
<tr>
<td>KINES 2151</td>
<td>Walking Fitness</td>
</tr>
</tbody>
</table>

**Total Elective Courses** ............................................................. 18

## PARKS AND RECREATION MANAGEMENT CODE 168

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 2102</td>
<td>Foundations of Parks and Recreation</td>
</tr>
</tbody>
</table>

**Required Courses** ....................................................................... 2

**Choose from the following courses to complete the 16 hour required block:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 3663</td>
<td>Recreation Management</td>
</tr>
<tr>
<td>PRM 3702</td>
<td>Recreational Areas and Facilities Mgmt</td>
</tr>
<tr>
<td>PRM 4163</td>
<td>Community Recreation</td>
</tr>
<tr>
<td>PRM 4663</td>
<td>Outdoor Recreation</td>
</tr>
<tr>
<td>PRM 4773</td>
<td>Natural Resource Recreation Management</td>
</tr>
<tr>
<td>PRM 4993</td>
<td>Internship in Professional Recreation</td>
</tr>
</tbody>
</table>

### Areas of Specialization

- **Aquatics Specialization** ............................................................ 5-6
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 3152</td>
<td>SCUBA</td>
</tr>
<tr>
<td>PRM 3161</td>
<td>Lifeguarding</td>
</tr>
<tr>
<td>PRM 3162</td>
<td>Advanced SCUBA/SLAM</td>
</tr>
</tbody>
</table>

- **Outdoor Recreation Specialization** ............................................ 5-6
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 3113</td>
<td>Sailing, Canoeing, Hiking and Climbing</td>
</tr>
<tr>
<td>PRM 3122</td>
<td>Wilderness First Aid</td>
</tr>
<tr>
<td>PRM 3132</td>
<td>Wilderness Survival</td>
</tr>
<tr>
<td>PRM 3142</td>
<td>Advanced Survival</td>
</tr>
<tr>
<td>PRM 3423</td>
<td>Ropes Course Facilitation</td>
</tr>
<tr>
<td>PRM 3452</td>
<td>Advanced Ropes</td>
</tr>
<tr>
<td>PRM 3552</td>
<td>Backpacking</td>
</tr>
<tr>
<td>PRM 4012</td>
<td>Advanced Alpine Adventure</td>
</tr>
</tbody>
</table>

**Choose nine (9) hours from the following courses** .................................. 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 2201</td>
<td>Basic Handgun</td>
</tr>
<tr>
<td>PRM 3132</td>
<td>Wilderness Survival</td>
</tr>
<tr>
<td>PRM 3133</td>
<td>Emergency Response</td>
</tr>
<tr>
<td>PRM 3161</td>
<td>Lifeguarding</td>
</tr>
<tr>
<td>PRM 3441</td>
<td>High Angle Rescue</td>
</tr>
<tr>
<td>OR PRM 3452</td>
<td>Advanced Ropes</td>
</tr>
<tr>
<td>PRM 4011-4</td>
<td>Sem in Parks and Recreation Mgmt</td>
</tr>
<tr>
<td>PRM 4881</td>
<td>Tactical Carbine</td>
</tr>
<tr>
<td>NRM 4011-4</td>
<td>Sem in Natural Resource Mgmt</td>
</tr>
<tr>
<td>NRM 4812</td>
<td>Wildlife Management</td>
</tr>
<tr>
<td>NRM 4993</td>
<td>Internship in Parks &amp; Wildlife LE (120 hours)</td>
</tr>
</tbody>
</table>

**Total Electives** ......................................................................... 20

## PARKS AND WILDLIFE LAW ENFORCEMENT CODE 161

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 2102</td>
<td>Foundations of Parks and Recreation</td>
</tr>
<tr>
<td>PRM 4132</td>
<td>Wilderness First Aid</td>
</tr>
<tr>
<td>PRM 4201</td>
<td>The Park Ranger</td>
</tr>
<tr>
<td>PRM 4773</td>
<td>Natural Resource Recreation Mgmt</td>
</tr>
<tr>
<td>NRM 4172</td>
<td>Natural Resource Law</td>
</tr>
<tr>
<td>NRM 4211</td>
<td>Game and Fish Law</td>
</tr>
</tbody>
</table>

**Required Courses** ....................................................................... 11

**Choose nine (9) hours from the following courses** .................................. 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM 2201</td>
<td>Basic Handgun</td>
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<tr>
<td>PRM 3132</td>
<td>Wilderness Survival</td>
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<tr>
<td>PRM 3133</td>
<td>Emergency Response</td>
</tr>
<tr>
<td>PRM 3161</td>
<td>Lifeguarding</td>
</tr>
<tr>
<td>PRM 3441</td>
<td>High Angle Rescue</td>
</tr>
<tr>
<td>OR PRM 3452</td>
<td>Advanced Ropes</td>
</tr>
<tr>
<td>PRM 4011-4</td>
<td>Sem in Parks and Recreation Mgmt</td>
</tr>
<tr>
<td>PRM 4881</td>
<td>Tactical Carbine</td>
</tr>
<tr>
<td>NRM 4011-4</td>
<td>Sem in Natural Resource Mgmt</td>
</tr>
<tr>
<td>NRM 4812</td>
<td>Wildlife Management</td>
</tr>
<tr>
<td>NRM 4993</td>
<td>Internship in Parks &amp; Wildlife LE (120 hours)</td>
</tr>
</tbody>
</table>

**Total Electives** ......................................................................... 14-15

## PSYCHOLOGY CODE 160

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 2423</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSYCH 3333</td>
<td>Behavior Management</td>
</tr>
<tr>
<td>PSYCH 3363</td>
<td>Psychology of Personality</td>
</tr>
</tbody>
</table>

**Required Courses** ....................................................................... 6

**6 hours from the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 2423</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSYCH 2433</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td>PSYCH 3201-4</td>
<td>Contemporary Problems in Psychology</td>
</tr>
<tr>
<td>PSYCH 3213</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>PSYCH 3224</td>
<td>Research Methods</td>
</tr>
<tr>
<td>PSYCH 3233</td>
<td>Learning and Memory</td>
</tr>
<tr>
<td>PSYCH 3243</td>
<td>Cross-Cultural Psychology</td>
</tr>
<tr>
<td>PSYCH 3253</td>
<td>Psychological Tests</td>
</tr>
<tr>
<td>PSYCH 3323</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td>PSYCH 3333</td>
<td>Behavior Management</td>
</tr>
<tr>
<td>PSYCH 3363</td>
<td>Psychology of Personality</td>
</tr>
<tr>
<td>PSYCH 4011-4</td>
<td>Seminar in Psychology</td>
</tr>
<tr>
<td>PSYCH 4123</td>
<td>Theories and Principles of Psychotherapy</td>
</tr>
<tr>
<td>PSYCH 4133</td>
<td>Psychology of Sports</td>
</tr>
<tr>
<td>PSYCH 4203</td>
<td>Psychology of Women</td>
</tr>
<tr>
<td>PSYCH 4223</td>
<td>Media &amp; Mental Illness</td>
</tr>
<tr>
<td>PSYCH 4313</td>
<td>Introduction to Clinical Psychology</td>
</tr>
<tr>
<td>PSYCH 4323</td>
<td>Forensic Psychology</td>
</tr>
<tr>
<td>PSYCH 4333</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>PSYCH 4371-4</td>
<td>Psychological Research</td>
</tr>
<tr>
<td>PSYCH 4533</td>
<td>Language Development</td>
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**Total Electives** ......................................................................... 20
PSYCHOLOGY MINOR IN ALCOHOL AND CHEMICAL DEPENDENCY COUNSELING

This minor will not qualify one for licensure or certification in the profession. However, it will lead to college course credit hours and professionally supervised practicums, which will partially fulfill licensure and certification requirements in the field. The minor has the objective of exposing the student to the professional field in terms of both theory and practice.

Students with majors in Psychology, Counseling, Music Therapy and Allied Health Sciences may find this minor especially relevant to their career training objectives.

ALCOHOL AND CHEMICAL DEPENDENCY COUNSELING  
CODE 162

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CRMJS 1113</td>
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<tr>
<td>*PSYCH 332</td>
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</tr>
<tr>
<td>*PSYCH 4113</td>
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<td>*PSYCH 4123</td>
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<td>PSYCH 4602</td>
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*See Psychology Prerequisites

CHILD DEVELOPMENTAL PSYCHOLOGY  
CODE 163

<table>
<thead>
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<tbody>
<tr>
<td>EDPSY 3413</td>
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<tr>
<td>PSYCH 3333</td>
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<td>PSYCH 4553</td>
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SPORTS PSYCHOLOGY  
CODE 148

<table>
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<tbody>
<tr>
<td>KINES 4073</td>
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<tr>
<td>PSYCH 3213</td>
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<tr>
<td>PSYCH 4133</td>
<td>3</td>
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<tr>
<td>SPRTM 3533</td>
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<td>Electives</td>
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FORENSIC PSYCHOLOGY  
CODE 159

<table>
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<tbody>
<tr>
<td>PSYCH 2423</td>
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</tr>
<tr>
<td>PSYCH 3323</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 4323</td>
<td>3</td>
</tr>
<tr>
<td>CRMJS 1113</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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SPORTS MANAGEMENT  
CODE 150

<table>
<thead>
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<tbody>
<tr>
<td>SPRTM 3503</td>
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<td>SPRTM 3523</td>
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<tr>
<td>PSYCH 4133</td>
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<td>SPRTM 4533</td>
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<td>Electives</td>
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TACTICAL LEADERSHIP  
CODE 146

<table>
<thead>
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<tbody>
<tr>
<td>TLD 2103</td>
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<tr>
<td>TLD 2203</td>
<td>3</td>
</tr>
<tr>
<td>TLD 2113</td>
<td>3</td>
</tr>
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<td>TLD 2213</td>
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<td>Electives</td>
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### WILDLAND FIRE MANAGEMENT  
**CODE 116**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NRM 2103</td>
<td>Wildland Fire Management</td>
</tr>
<tr>
<td>NRM 2112</td>
<td>Advanced Firefighting Methods</td>
</tr>
<tr>
<td>NRM 2142</td>
<td>Wildland Fuel Reduction</td>
</tr>
<tr>
<td>NRM 4802</td>
<td>Wildland Fire Ecology</td>
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- Total: 9

**Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PRM 3122</td>
<td>Wilderness First Aid</td>
</tr>
<tr>
<td>PRM 3132</td>
<td>Wilderness Survival</td>
</tr>
<tr>
<td>PRM 3133</td>
<td>Emergency Response</td>
</tr>
<tr>
<td>PRM 3441</td>
<td>High Angle Rescue</td>
</tr>
<tr>
<td>NRM 2122</td>
<td>Ignition Operations</td>
</tr>
<tr>
<td>NRM 2132</td>
<td>Fireline Leadership &amp; ICS</td>
</tr>
<tr>
<td>NRM 2993</td>
<td>Intern in Wildland Fire Mgmt</td>
</tr>
<tr>
<td>NRM 4001-04</td>
<td>Indep Study in NRM (Wildland Fire Mgmt)</td>
</tr>
<tr>
<td>NRM 4172</td>
<td>Natural Resource Law</td>
</tr>
<tr>
<td>NRM 4812</td>
<td>Wildlife Management</td>
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- Total: 9

- Total: 18
# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BUSINESS AND TECHNOLOGY

(Business Minors are limited to students with major other than Accounting, Entrepreneurship, Finance, Management, and Marketing)

## ACCOUNTING

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>CODE 202</th>
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<tbody>
<tr>
<td>ACCTG 2213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCTG 2313 Principles of Managerial Accounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCTG 3313 Intermediate Accounting I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCTG 4313 Income Tax Accounting I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCTG 3713 Cost Accounting</td>
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<tr>
<td>3000-4000 Level Accounting Elective</td>
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## COMPUTER SCIENCE

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>COMSC 1033 Computer Science I</td>
<td></td>
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</tr>
<tr>
<td>COMSC 1053 Computer Science II</td>
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<td></td>
</tr>
<tr>
<td>COMSC 3013 Computer Architecture</td>
<td></td>
<td></td>
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<tr>
<td>OR COMSC 2413 Data Structures</td>
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</tr>
<tr>
<td>Computer Science Electives</td>
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<td>9</td>
</tr>
<tr>
<td>1000/2000 level Computer Science Electives (0-3 hours)</td>
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<td></td>
</tr>
<tr>
<td>3000/4000 level Computer Science Electives (6-9 hours)</td>
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## COMPUTER TECHNOLOGY

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>TECH 1713 Basic Electrical Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 2713 Fundamental Electronics</td>
<td></td>
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<tr>
<td>Electives</td>
<td></td>
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</tr>
<tr>
<td>TECH 2813 Digital Devices</td>
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<tr>
<td>TECH 3823 Industrial Electronics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 3833 Communications Electronics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 3843 Telecommunications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 4813 Networking &amp; Distributed Controls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 4833 Microprocessors &amp; Embedded Controls</td>
<td></td>
<td></td>
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<tr>
<td>Total</td>
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</table>

## ELECTRONICS

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>CODE 128</th>
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</tr>
</thead>
<tbody>
<tr>
<td>TECH 1713 Basic Electrical Science</td>
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<td></td>
</tr>
<tr>
<td>TECH 2713 Fundamental Electronics</td>
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<td></td>
</tr>
<tr>
<td>TECH 3823 Industrial Electronics</td>
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<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>TECH 2813 Digital Devices</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 3833 Communications Electronics</td>
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<td></td>
</tr>
<tr>
<td>TECH 3843 Telecommunications</td>
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<td></td>
</tr>
<tr>
<td>TECH 4813 Networking &amp; Distributed Controls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 4833 Microprocessors &amp; Embedded Controls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 4843 Industrial Controls</td>
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## ENTREPRENEURSHIP

<table>
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<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>ACCTG 2213 Principles of Financial Accounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTRP 3423 Business Communications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MNGMT 3233 Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRKTG 3143 Principles of Marketing</td>
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<td></td>
</tr>
<tr>
<td>3000-4000 Level Electives from Accounting*, Entrepreneurship, Finance, Management, or Marketing</td>
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<td>Total</td>
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*Completion of ACCTG 2213 + 2313 needed in order to complete 3000/4000 level ACCTG coursework.

## FINANCE

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>CODE 206</th>
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<tbody>
<tr>
<td>ACCTG 2213 Principles of Financial Accounting</td>
<td></td>
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<tr>
<td>ACCTG 2313 Principles of Managerial Accounting</td>
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<tr>
<td>FINAN 3343 Business Finance</td>
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<td>3000-4000 Level Electives in Finance</td>
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<td>3000-4000 Level Electives from Accounting, Entrepreneurship, Finance, Math above College Algebra, or Computer Science above 1023</td>
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## FORENSICS

<table>
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<tr>
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<tbody>
<tr>
<td>COMSC 3253 Intro to Computer Forensics</td>
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<td>COMSC 3853 Computer Forensic Analysis</td>
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<td>PSYCH 3323 Abnormal Psychology</td>
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<td>PRM 4343 Intro to Criminal Investigations</td>
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<td>Electives</td>
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<tr>
<td>COMSC 1103 Intro to Information Security</td>
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<td>COMSC 2603 Network Security</td>
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<tr>
<td>PSYCH 3253 Psychological Tests</td>
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<td>PSYCH 4323 Forensic Psychology</td>
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<td>PRM 4404 Legal Issues</td>
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## GENERAL TECHNOLOGY

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<tr>
<td>TECH 1203 Engineering Drafting</td>
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<tr>
<td>TECH 1713 Basic Electrical Science</td>
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<tr>
<td>TECH 2413 Non-Metallic Materials &amp; Processes</td>
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<tr>
<td>TECH 2513 Fabrication Processes I</td>
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<td>TECH 3613 Power Systems</td>
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<tr>
<td>Electives (Technology 3000/4000 level)</td>
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## INFORMATION SYSTEMS

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<tr>
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<tbody>
<tr>
<td>COMSC 1033 Computer Science I</td>
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<tr>
<td>OR COMSC 1433 Visual Basic Programming</td>
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<td></td>
</tr>
<tr>
<td>COMSC 1103 Introduction to Information Security</td>
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<tr>
<td>ENTRP 3113 Intro to MIS</td>
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<tr>
<td>Computer Science Electives</td>
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## MANAGEMENT

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MNGMT 3233 Management</td>
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<tr>
<td>MNGMT 3333 Human Resource Management</td>
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<tr>
<td>MNGMT 3433 Dynamics of Organizational Management</td>
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<tr>
<td>MNGMT 3533 Organizational Behavior</td>
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<tr>
<td>3000-4000 Level Elective from Accounting, Entrepreneurship, Finance, or Marketing</td>
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</table>
MARKETING  CODE 214
Required Courses................................................................. 9
MRKTG  3143  Principles of Marketing
MRKTG  3243  Promotional Strategy
OR  MRKTG  4243  Marketing Research
MRKTG  3443  Consumer Behavior

3000-4000 Level Electives in Marketing .................................. 6

3000-4000 Level Elective from Accounting, Entrepreneurship,
Finance, or Management.........................................................3

Total.......................................................................................... 18

ORGANIZATIONAL LEADERSHIP  CODE 209
Required Courses......................................................................... 12
ORGL  3443  Survey of Fiscal Management
ORGL  4113  Ethics and Organizations
ORGL  4223  The Individual, the Organization & Society
ORGL  4553  Capstone

Required for Non-Business Majors.............................................. 6
ORGL  3223  Professional Communication
ORGL  3333  Data Analysis & Interpretation
ORGL  4333  Leading and Managing
ORGL  4443  Markets and Stakeholders
ORGL  4993  Professional Internship

Required for Business Majors*.................................................. 6
MNGMT  4163  Managerial Leadership
ORGL  4993  Professional Internship
SPRTM  3523  Leadership in Sport
EDUC  3012  Student Leadership

Total.......................................................................................... 18

*Students may request to have 3 hours of leadership courses from
outside business discipline included in minor
PRE-PROFESSIONAL PROGRAMS OF STUDY

Pre-Chiropractic
Pre- Communication Sciences & Disorders
Pre-Dental Hygiene
Pre-Dentistry
Pre-Engineering
Pre-Health Information Management
Pre-Medical Imaging and Radiation Sciences
Pre-Medicine
Pre-Nursing
Pre-Nutritional Sciences
Pre-Occupational Therapy and Occupational Therapist Assistant
Pre-Optometry
Pre-Pharmacy
Pre-Physical Therapy and Physical Therapy Assistant
Pre-Physician Associate/Assistant
Pre-Veterinary Medicine
PRE-PROFESSIONAL CURRICULA

Many students who plan to complete professional curricula such as law, medicine, pharmacy, nursing and engineering come to Southwestern Oklahoma State University for one, two, three or four years of Arts and Sciences before the professional training is begun.

Suggestions for pre-professional training are listed below for those who are planning to prepare for specific professions. However, before enrolling, students should consult the requirements of the professional school they wish to enter. Faculty advisors will help plan a course of study to fit any particular need.

PRE-PROFESSIONAL COMMUNICATION SCIENCES & DISORDERS

Pre-Professional Courses in Communication Sciences & Disorders may be obtained at SWOSU. The Communication Sciences & Disorders program includes training in Speech Pathology and Audiology. It prepares the student to assess and treat speech problems and hearing disorders. A minimum of 60 credit hours with a 2.75 grade point average is required for admission to the program at the OUHSC. There are also other Speech Pathology programs available in Oklahoma. See the Department of Biological Sciences or the Department of Allied Health Sciences for information on the prerequisites and application procedures.

PRE-DENTAL HYGIENE

The Bachelor level Dental Hygiene Program at the University of Oklahoma consists of two years of pre-dental hygiene coursework that may be completed at any accredited college or university and two years of study at the College of Dentistry.

Acceptance to the Dental Hygiene Program is based upon completion of a minimum of 60 semester hours of pre-dental hygiene courses with a minimum cumulative grade point average of 2.5 (A=4.0) and a minimum grade of "C" in those courses that are required, as well as letters of recommendation and a personal interview. Entering students must also present evidence of current certification in Level C Cardiopulmonary Resuscitation.

Students interested in a career in this area of oral health should contact the Pre-Medical/Pre-Dental Advisor in the Department of Biological Sciences or the Department of Allied Health Sciences.

PRE-DENTISTRY

Although a minimum of three years of college work (90 hours) is generally required for entrance into a dental school, students planning a career in dentistry are strongly encouraged to obtain a bachelor’s degree.

Acceptance to the University of Oklahoma College of Dentistry is based upon grade point average, Dental Aptitude Test Scores, letters of recommendation, and a personal interview. The applicant must demonstrate a cumulative grade average of at least a 2.5 (A=4.0) and a minimum grade of “C” in each course listed in the following areas: English, six semester hours; Biology (with lab), eight semester hours; Inorganic Chemistry (with lab), eight semester hours; Organic Chemistry (with lab), eight semester hours; Physics (with lab), eight semester hours. Additional courses in advanced biology, psychology, sociology, and economics are recommended.

In addition, the applicant is interviewed by the University Pre-Medical Advisory Committee composed of members from the Departments of Biological Sciences, Chemistry and Physics, and the School of Health Sciences. Applicants should initiate a dialogue with the Chair of the Pre-Medical Advisory Committee as soon as possible following matriculation at SWOSU.

A student who plans a career in dentistry should see the Pre-Medical/Pre-Dental Advisor in the Department of Biological Sciences, Department of Chemistry and Physics, or the Department of Allied Health Sciences in order to plan a course of study designed to meet these requirements.

PRE-ENGINEERING

Most of the first two years of course work required by engineering schools may be taken at Southwestern Oklahoma State University. This includes the foundation courses in mathematics through calculus, chemistry, physics, engineering mechanics, drafting, computer programming, and general education.

Any mathematics below calculus (MATH 1834) is considered a deficiency by the engineering schools. It is strongly recommended that high school students who are interested in engineering take all available mathematics, a year of physics, and a year of chemistry.

Students should take full advantage of the credit-by-examination program, which is available at SWOSU.

Interested students should contact the Department of Chemistry and Physics for advisement when registering at SWOSU. It is also advisable to secure an engineering bulletin and catalog from the engineering schools where transfer will be considered.

PRE-HEALTH INFORMATION MANAGEMENT

Any student may declare their major as Health Information Management and enroll in the pre-professional curriculum. This curriculum consists of 68 hours including courses which meet the general education requirements of the University. Students in Health Information Management will complete a minor in Health Care Administration. Many of the courses for this minor are also completed during the pre-professional sequence. When most of these courses are completed, students may apply for admission into the professional Health Information Management Program, which begins each fall. Applications are available online. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.50 in these courses. Students interested in this career should contact the Health Information Management Faculty in the Department of Allied Health Sciences.

PRE-PROFESSIONAL MEDICAL IMAGING AND RADIATION SCIENCES

Students that are interested in Radiology have two options at Southwestern. The Associate of Applied Science degree in Radiologic Technology at SWOSU-Sayre can be completed in two to three years. Application needs to be made before the end of April.

Second, there is a Pre-Medical Imaging and Radiation Sciences program that provides a Bachelor of Science degree in one of four areas. The University of Oklahoma Health Science Center provides training in Nuclear Medicine, Radiation Therapy, Radiography, and Sonography (Ultrasound). The prerequisites for each of
these programs are the same but a student must apply to one of the specific programs. The prerequisite part of the program requires a minimum of 64 credit hours with a 2.5 minimum grade point average. Specific courses and application information may be obtained from the Department of Biological Sciences or the Department of Allied Health Sciences for either of these programs.

**PRE-MEDICINE**

The requirements to enter the University of Oklahoma School of Medicine include a minimum of 90 semester hours (exclusive of physical education and military science) in an accredited college or university. Of the 90 semester hours, a minimum of 43 hours shall be taken in prescribed courses (see medical college catalog). An applicant must present a minimum grade point average of 3.00 (A=4.00) both in the prescribed course work and in general or total college work, or an average score of 8.0 on the MCAT. The applicant must have an average of at least 2.00 in each of the prescribed prerequisite courses. The applicant is also required to take the Medical College Admission Test. This test must be taken in April of the applicant's junior year and before initiating formal application procedures for admission. Each applicant must meet the above scholastic requirements, file a written application, and have a personal interview as directed by the Board of Admissions.

All applicants must meet the following requirements for entrance into the Oklahoma College of Osteopathic Medicine and Surgery: 90 semester hours at an accredited college or university including 36 semester hours of prescribed course work, with at least a 2.00 (A=4.00) in each of the prescribed courses, a science grade point average of at least 2.50 and an overall grade point average of at least 2.50 on a 4.00 point scale. The applicant must submit scores from the Medical College Admission Test and participate in an on-campus interview with the Student Selection Committee.

In addition, the applicant is interviewed by the University Pre-Medical Advisory Committee composed of members from the Departments of Biological Sciences, Chemistry, and Physics, and the Department of Allied Health Sciences. Applicants should initiate a dialogue with the Chair of the Pre-Medical Advisory Committee as soon as possible following matriculation at SWOSU.

**OSU 3+1 RURAL MEDICAL EARLY ADMISSION PROGRAM**

The Departments of Biological Sciences and Chemistry_Physics as well as the School of Allied Health Science has entered into an agreement with the OSU School of Osteopathic Medicine to participate in their 3 + 1 Rural Medicine Early Admission Programs. SWOSU students have the opportunity to gain early admittance to the College of Osteopathic Medicine and complete their pre-doctoral medical training in seven years.

Interested students should contact a Pre-Medical advisor in the Department of Biological Sciences, Department of Chemistry and Physics, or the Department of Allied Health Sciences.

**PRE-NURSING**

The Pre-Nursing curriculum consists of 67 hours including a two-hour course, "Introduction to Professional Nursing", which is specifically required for admission to the nursing program at SWOSU and must be completed at SWOSU.

Admission to the School of Nursing is determined by objective criteria such as quality and consistency of academic performance. Pre-professional requirements, GPA, TEAS exam scores and character references are among the factors considered. Each applicant must have a minimum grade average of 2.50 (on a 4.0 scale) in the required pre-professional courses. A minimum grade of "C" is required in specified prerequisite courses.

Applications to the School of Nursing are available in December, with the deadline for applications due the first Monday in February for generic or traditional students. The procedure and deadline for R.N. to B.S.N. students is available from the School of Nursing.

A student who plans to enter the nursing program should seek advisement in the School of Nursing as early as possible. Transfer students to other schools of nursing are also urged to seek early advisement for specific requirements of other schools.

**PRE-PROFESSIONAL NUTRITIONAL SCIENCES/CLINICAL DIETETICS**

Students interested in being a Registered Dietician may consider the Bachelor of Science degree in Nutritional Sciences at the OUHSC. The prerequisites require 90 credit hours of college work with a minimum 2.5 grade point average. If you are interested in a future in Clinical Dietetics, see the Department of Biological Sciences or the Department of Allied Health Sciences for more information on required courses and application information.

**PRE-OPTOMETRY**

Admission requirements for entrance into Northeastern Oklahoma State University College of Optometry include completion of a minimum of 90 semester hours or pre-professional coursework with at least a 2.7 cumulative grade point average (A=4.0), a satisfactory score on the Optometry Admission Test, letters of recommendation, and a personal interview.

The following areas must be completed as part of the pre-professional work: College Algebra & Trigonometry, six hours; General Biology or Zoology, three hours; Microbiology (advanced level), three hours; General Inorganic Chemistry I & II (with lab), 8-10 hours; Organic Chemistry I (with lab), four hours; Biochemistry, three hours; Physics I & II (with lab), 8-10 hours; Statistics, three hours; General Psychology, three hours; English Comp I & II (grammar & composition), six hours.

Study in the areas of experimental psychology, social science, humanities, computer science, public speaking, analytic geometry, and accounting is strongly recommended.

In addition, the applicant is interviewed by the University Pre-Medical Advisory Committee composed of members from the Departments of Biological Sciences, Chemistry, and Physics, and the School of Health Sciences. Applicants should initiate a dialogue with the Chair of the Pre-Medical Advisory Committee as soon as possible following matriculation at SWOSU.

Students interested in a career in optometry should see the Pre-Optometry Advisor in the Department of Biological Sciences, Department of Chemistry, or the Department of Allied Health Sciences.

**PRE-PHARMACY**

Students entering Southwestern Oklahoma State University directly from high school to study pharmacy will ordinarily spend two academic years as Pre-Pharmacy students pursuing the prescribed pre-professional curriculum. Transfer students with less than 60 semester hours completed from the courses available for and required of Pre-Pharmacy students must transfer to SWOSU in a Pre-Pharmacy status. Transfer students are encouraged to contact...
the Admissions Counselor to determine the status of their pre-professional curriculum.

**PHYSICAL THERAPIST ASSISTANT (PTA) & PRE-PHYSICAL THERAPY (PT)**

Students entering Southwestern Oklahoma State University with an interest in Physical Therapy have the option of Physical Therapist Assistant and Pre-Physical Therapy.

The Associate of Applied Science degree in Physical Therapist Assistant can be completed in two to three years and is offered through a contractual agreement between SWOSU and Caddo Kiowa Technology Center in Fort Cobb, OK. The program requires 36 prerequisite credit hours which may be taken at the SWOSU Weatherford and/or Sayre campus. Course transfer from other educational institutions will be considered upon program application. After acceptance into the program, the student will complete 29 professional and clinical hours at Caddo Kiowa Technology Center. Prerequisite requirements and application information may be obtained from the Department of Allied Health Sciences or Caddo Kiowa Technology Center. The program is accredited by the Commission on Accreditation in Physical Therapy Education.

The **Pre-Physical Therapy Program** leads to a Doctorate Degree in Physical Therapy from the University of Oklahoma Health Sciences Center or the Physical Therapy School of the student’s choice. The minimum requirements for admission is a B.S. and designated prerequisites, an overall grade point average of 2.75, and a 2.75 grade point average in 29 hours of natural science completed prior to making application. All application requirements must be completed and applications submitted by February 1 for the next year’s class. Students are also required to complete 40 hours of Physical Therapy observation and take the Graduate Record Exam (GRE) available at the Biosylvan testing center. The professional Physical Therapy Doctorate level program consists of 80 semester hours of sequenced and integrated didactic and clinical courses. The didactic work is taken at the OUHSC in OKC or Tulsa.

It is suggested that the students seeking the Doctorate level program in Physical Therapy select a major and develop a bachelor’s degree plan while completing the Pre-Physical Therapy prerequisites.

Complete course prerequisites and other information may be obtained from the Pre-Physical Therapy advisors in the Department of Biological Sciences or the Department of Allied Health Sciences.

**PRE-PHYSICIAN ASSOCIATE**

The PA program is intended to train individuals to provide primary patient care under the supervision, direction, and responsibility of physicians. Therefore, each individual should carefully consider his/her career objectives and the goal of this program before applying for admission. A Master of Health Sciences will be awarded after successful completion of the thirty (30) month program.

Admission into the Physician Associate Program at the University of Oklahoma Health Science Center requires the following:

1. Completion of a B.S. degree from an accredited university.
2. A minimum GPA of 3.00 on a 4.0 scale.
3. Completion of the general test component of the Graduate Record Exam (GRE). All GRE scores must be received by PA Program by the October 1 deadline – NO Exceptions.
4. Three letters of reference – one or more should be from a physician.
5. One page typewritten statement on “Why I Wish to Become a Physician Associate.”

Additional information concerning this program may be obtained from the Department of Biological Sciences or the Department of Allied Health Sciences.

**OCCUPATIONAL THERAPY ASSISTANT (OTA) & PRE-OCCUPATIONAL THERAPY (OT)**

Students entering Southwestern Oklahoma State University with an interest in Occupational Therapy have the option of Occupational Therapy Assistant and Pre-Occupational Therapy.

The Associate of Applied Science degree in Occupational Therapy Assistant can be completed in two or three years and is offered through a contractual agreement between SWOSU and Caddo Kiowa Technology Center in Ft. Cobb, OK. The program requires 36 prerequisite credit hours at the SWOSU Weatherford and/or Sayre campus. Course transfer from other educational institutions will be considered upon program application. After acceptance into the program, the student will complete 36 professional and clinical hours at Caddo Kiowa Technology Center, Fort Cobb, OK. Prerequisite requirements and application information may be obtained from the Department of Allied Health Sciences or Caddo Kiowa Technology Center. The program is accredited by the American Occupational Therapy Association, Inc.

The Pre-Occupational Therapy Program leads to a Master’s degree from the University of Oklahoma Health Sciences Center or the Occupational Therapy School of the student’s choice. The minimum requirements for admission are 90 credit hours, with 19 hours of natural science, other designated prerequisites, and a minimum grade point average of 2.50 for all college work attempted. Also, students are required to complete 40 hours of Occupational Therapy observation, and take the Graduate Record Exam (GRE) available at the Sylvan testing center. Application requirements must be submitted by February 1 prior to the next year’s starting date. The master’s level Occupational Therapy degree professional program consists of 80 semester hours of sequenced and integrated didactic and clinical courses. The didactic work is taken at the OUHSC in OKC or Tulsa.

It is suggested that the student seeking the master’s level program in Occupational Therapy select a major and develop a degree plan for a bachelor’s degree while completing the prerequisites for admission.

Complete course prerequisites and other information may be obtained from the Pre-Occupational Therapy advisors in the Department of Biological Sciences or the Department of Allied Health Sciences.

**PRE-VETERINARY MEDICINE**

The pre-professional curriculum for the College of Veterinary Medicine at Oklahoma State University consists of a minimum of 60 semester credit hours exclusive of military science and physical education. This requirement may be completed at any accredited institution.

Each applicant must have a minimum grade point average of 2.80 in the required pre-professional courses. To be truly competitive, a grade point higher than the minimum is needed. A grade lower than “C” in a required course is not acceptable; the course must be repeated.
Admission is determined on the basis of pre-professional grades, personal interviews, aptitude tests, and recommendations.

Applicants are strongly advised to graduate with a degree prior to entering Veterinary School. A check sheet of Pre-Veterinary requirements leading to a degree can be obtained from the Pre-Veterinary advisor in the Department of Biological Sciences.
COURSE DESCRIPTIONS

Explanation of Course Numbers
The course number indicates the degree of advancement. Generally, courses with the lowest numbers should be completed first. Lower-division courses (1000-2000) are generally considered freshman and sophomore courses. Upper-division courses (3000-4000) are generally considered junior and senior courses. Courses numbered in the 5000 series are graduate courses; however, some 3000-4000 courses may be taken for graduate credit.

Prerequisites and Recommended Courses
Prerequisites are noted by bold print. Recommended courses are noted by italic print.

General Education*

ART 1223 ART SURVEY
This General Education course traces the history of art from prehistory to the present. Emphasis is on the art of the western world from antiquity through the modern era. Among the topics covered are the art of Renaissance Europe, Impressionism and Post-Impressionism, as well as ways of seeing and the influence of non-Western cultures. F, S, SU

ASTRO 1904 ASTRONOMY
An introductory course stressing basic science and how we arrived at our present knowledge of space, time and matter. The major topics include: history of astronomy, planets; meteors; comets; asteroids; birth, life, and death of stars; galaxies; quasars; black holes; and cosmology. Several night viewing sessions will be arranged. F, S, SU

BIOL 1004 BIOLOGICAL CONCEPTS**
An introduction to the concepts and methods of biology needed to understand biological issues faced by society. Upon completion of the course students will be able to apply the scientific method to problem solving and to explain natural phenomena. Students will also understand such concepts as the role of the cell in maintaining conditions essential for life. In addition, students will be able to describe the interactions between living organisms and the environment at the population, ecosystem, and biosphere levels and to identify potential impacts on society of biotechnology, world population growth, and human influences on global biogeochemical cycles. Credit for this course may not be applied to a Biological Sciences Major or Minor. F, S, SU

BIOL 1013 CURRENT ISSUES IN BIOLOGY
Students will be introduced to how basic knowledge of biological sciences can contribute to their growth as informed global citizens. The course focuses on biological principles that have immediate applications in our everyday lives. The course will also require that students use the knowledge they received to debate important issues, solve problems, and communicate complex issues to their peers. F, S

BIOL 1054 PRINCIPLES OF BIOLOGY I
Introduction to major molecular, cellular and genetic principles needed to understand the functioning of all organisms. Investigative laboratories introduce important techniques and methodologies used by modern biologists. Students will be introduced to scientific procedure, reasoning, problem solving, and reporting. Required for all biological sciences majors and minors and recommended for pre-professional and other science majors. Prerequisite: BIOL 1054L. F, S, SU

CHEM 1004 GENERAL CHEMISTRY***
A survey course in general chemistry designed for students requiring a single chemistry course (of 4 hours or fewer) in their major or for students requiring a preparatory course for CHEM 1203 and CHEM 1252, General Chemistry I. Topics include measurements, atomic theory, bonding, naming/writing formulas of inorganic compounds, properties of solids/liquids/gases, energy (primarily light/heat), reactions (including balancing equations, stoichiometry, equilibrium), solutions/concentrations, and acids/bases. The laboratory is designed to fortify the understanding of the major topics of the course. No prerequisites although a minimal algebra background is helpful. F, S

COMM 1263 INTRODUCTION TO THEATRE
Background, philosophy, and practices of theatre arts, the theory and practice of elementary principles of direction, acting, and stagecraft. All of the above will be applied to the study of American, British, and European plays representing major literary periods from classic to modern. F, S

COMM 1313 INTRODUCTION TO PUBLIC SPEAKING
This course provides students with an in-depth analysis of public speaking. It includes a thorough examination of the theoretical framework of public speaking and requires students to put those theories into practice. Students will build critical thinking skills by constructing their own messages and evaluating those of others. This course is designed to heighten student’s skills as well as increase their confidence as public speakers. F, S, SU

COMSC 1022 COMPUTERS & INFORMATION ACCESS
Introduction to computers, computer software, and the use of computers to access information for general education students. Includes an introduction to computer hardware, microcomputer operating systems, and computer applications, including word processors, spreadsheets, e-mail, and the Internet. F, S, SU

COMM 2103 INTRO TO MASS COMMUNICATIONS
Basic study of the nature and function of mass communication systems, their audiences, social impact, pressures, and regulations. F, S

COMM 2113 WRITING FOR MASS MEDIA
Introduction to writing for both print and broadcast media. Includes news, feature, editorial, and sports writing. F

COMM 3573 INTERCULTURAL COMMUNICATION
Students examine the ways that communication varies in different cultures. Kinds of differences studied include nationalities, languages, ethnicities, gender, age and others. SE

ECONO 2263 INTRODUCTION TO MACROECONOMICS
Study of the economy as a whole. Topics include national income accounting, the determination of the levels of income, output, employment, and price; money and banking; stabilization policies; international economics. F, S

ECONO 2363 INTRODUCTION TO MICROECONOMICS
Fundamental microeconomic principles involving behavior of consumers, business firms, and resource owners as they relate to the allocation of resources; individual price and output determination. F, S

ENGL 1113 ENGLISH COMPOSITION I
A limited review of principles of grammar and basic language mechanics; training for effective communicative skills with emphasis on writing as required for successful college study. F, S, SU

ENGL 1213 ENGLISH COMPOSITION II
Training for skills in communication, as in ENGL 1113, but at a higher level. Research component. Prerequisite: ENGL 1113. F, S, SU

GEOG 1103 WORLD CULTURAL GEOGRAPHY
Study of world’s cultural regions. Cultural development is surveyed for such topics as populations, technologic-economic systems, and sociocultural beliefs and practices. F, S, SU

GEOL 1934 PHYSICAL GEOLOGY
Introduction to earth science; earth in the universe, seafloor spreading and continental drift, the geomagnetic field, earthquakes and landform development; laboratory study of minerals and rocks, topographic maps, stereographs and landforms. F, S
HIST 1033 WORLD HISTORY
An introduction to the history of world civilizations with an emphasis on
the development of ideas, institutions, and religions as well as an
examination of the impact particular individuals and movements have had
in history. F, S, SU

HIST 1043 UNITED STATES HISTORY TO 1877
A survey of American history, beginning with the European background
and continuing through the reconstruction era. F, S, SU

HIST 1053 UNITED STATES HISTORY SINCE 1877
A survey of American history from the end of reconstruction to the
present. F, S, SU

HUM 1103 INTRODUCTION TO HUMANITIES
An interdisciplinary, multi-perspective assessment of cultural, political,
philosophical, and aesthetic factors critical to the formulation of values
and the historical development of the individual and of society. Examines
human creativity broadly, including music, painting, literature, theater,
architecture, sculpture, and modern innovations such as photography and
film. F, S, SU

KINES 1133 WELLNESS CONCEPTS AND EXERCISE
APPLICATIONS
This course is designed to provide the student with a philosophy of living
that encourages a higher quality of life and a state of well-being. Lifestyle
choices are identified and explained in regard to proper exercises, weight
management, stress management, substance use, sexually transmitted
diseases, health care, nutrition, cardiovascular disease prevention, and
cancer prevention. Assessment techniques and development of individual
prescriptions in the areas of muscular strength, muscular flexibility,
cardiovascular endurance, body composition, and nutrition are studied.
Lifetime leisure skills are identified and developed to provide a well-
rounded exposure to wellness. F, S, SU

LIT 2413 INTRODUCTION TO LITERATURE
The study of short stories, poetry, and drama. F, S, SU

MATH 1143 MATH CONCEPTS
An introduction to mathematical ideas and their applications. Topics are
chosen from set theory, logic, probability and statistics, financial
mathematics, number theory, and graph theory. F, S, SU

MATH 1153 MATH APPLICATIONS
A survey of applied mathematics. Topics are chosen from financial
mathematics, game theory, probability, statistics, counting principles and
combinatorics, optimization and linear programming, units and
dimensional analysis. F, S

MATH 1513 COLLEGE ALGEBRA****
A fundamental course including solutions of equations and inequalities,
systems of equations, algebra of functions, polynomial functions, rational
functions, exponential and logarithmic functions, matrices, and conic
sections. Prerequisite: ACT Math subscore of 19 or higher, MATH
0133, departmental approval, or placement by examination. F, S, SU

MUSIC 1013 INTRODUCTION TO MUSIC I
Introduction to the history of music and musical styles. F, S, SU

MUSIC 1103 MUSIC AND CULTURE
Introduction to history of music and musical styles from cultures around
the world. Designed as a course for music majors. F

PHILO 1453 INTRODUCTION TO PHILOSOPHY
A survey of major philosophers and their ideas, from ancient Greece to
Rome, to Medieval Christian philosophers, Descartes and the debate over
Rationalism and Empiricism, Kant and his followers, Marx,
Utilitarianism, and the Existentialism of both Kierkegaard and Sartre.
Attention to metaphysics, ontology, ethics, epistemology, axiology, and
some logic. Primary emphasis on the Western tradition. F, S, SU

POLSC 1103 AMERICAN GOVERNMENT & POLITICS
Survey of origin, structure, and functions of national government with
emphasis on Constitution and the American political process. Unless
otherwise noted, POLSC 1103 is a prerequisite for all political science
courses. F, S, SU

PSYCH 1003 GENERAL PSYCHOLOGY
A general education course which provides an overview of psychology
with an emphasis on the applied areas in the field. F, S, SU

SCI 1501 CONCEPTS OF PHYSICAL SCIENCE LABORATORY
The lab meets two hours each week and focuses on the importance of the
laboratory experiment to the scientific method. Inquiry-oriented
laboratory investigations of selected topics in the disciplines of
astronomy, chemistry, geology and physics introduced in SCI 1513 will
be undertaken. Prerequisite: Completion of or concurrent enrollment
in SCI 1513. S

SCI 1513 CONCEPTS OF PHYSICAL SCIENCE
A course designed to develop an awareness of the interrelationships
between science and society. Readings and discussions on the tactics and
strategy of science, with emphasis on the physical sciences. F, S, SU

SOCIO 1003 INTRODUCTION TO SOCIOLOGY
A general education course covering the fundamental concepts of
sociology; foundations of group life; social change, processes, and
problems. SOCIO 1003 is a prerequisite for all other sociology
courses. F, S, SU

TECH 1223 TECHNOLOGY AND SOCIETY
A survey course introducing the student to new and emerging
technologies in relation to their economic, social, and global impact on
society. F, S

WORLD LANGUAGES _ _ _ 4
Fundamentals of grammar taught in order to acquire facility in all four
language skills: reading, writing, speaking, and understanding the spoken
language; limited introduction to the culture. F, S, SU

*Descriptions for World Language courses are listed under the
Language and Literature Department.

**Or a higher numbered biology course.

***Or a higher numbered chemistry course.

****Or a higher numbered mathematics course.
GENERAL STUDY COURSES

GSTDY 1001 FRESHMAN ORIENTATION
A fall semester course required for all freshmen without previous full-time college experience. Concurrent enrollment students are required to take the course, but not transfers still classified as freshmen. The course is designed for beginning freshmen students to assist them in becoming familiar with the campus, college life, university regulations, and course offerings.

GSTDY 1061 PRESIDENT’S LEADERSHIP I
Basic leadership course (one-hour credit per semester.) Students will learn about different leadership theories and how they apply to different situations. This class is designed for students to learn the importance of leadership on campus and in their community. The main objective is to produce outstanding graduates who will assume roles as leaders in their chosen professions and communities. Students will also be instructed on materials related to SWOSU’s Freshman Orientation. Signature Only. F

GSTDY 1071 PRESIDENT’S LEADERSHIP II
Basic leadership course (one-hour credit per semester.) Students will learn about different leadership theories and be able to identify them from examples provided. This class is designed for students to learn the importance of leadership in the area and state. The main objective is to produce outstanding graduates who will assume roles as leaders in their chosen professions and communities. Signature only. S

GSTDY 1441 COLLEGE SUCCESS
College Success is designed to enhance students’ skills in becoming successful college students. The course will address topics including time management, learning styles, note taking, test taking, reading skills, etc. The course is required for all students who do not meet the State Regent’s requirements for admission to a regional university and for all students returning from suspension. It is highly recommended for students desiring to improve skills needed for academic success. F, S

GSTDY 1711 BEGINNING PERSONAL SAFETY
Beginning theories, principles, and strategies of self-defense. Intended for those in the helping professions of criminal justice, psychology, social work, health care, counseling, and education, as well as in customer relations (business and management) and anyone else interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of the policies and practices in force at prospective employers. Prerequisite: GSTDY 1711. D

GSTDY 1721 INTERMEDIATE PERSONAL SAFETY
Intermediate theories, principles, and strategies of self-defense. Intended for those in the helping professions of criminal justice, psychology, social work, health care, counseling, and education as well as in customer relations (business and management) and anyone else interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of the policies and practices in force at prospective employers. Prerequisite: GSTDY 1711. D

GSTDY 1731 ADVANCED PERSONAL SAFETY
Advanced theories, principles, and strategies of self-defense. For those in the helping professions of criminal justice, psychology, social work, health care, counseling, education, customer relations, and others interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of employment policies and practices. Also included is a safety-based project supported by academic research coordinated with a professor in the student's field of study. Prerequisites: GSTDY 1711 and GSTDY 1721. D

GSTDY 1741 INTERDISCIPLINARY FALL PREVENTION EDUCATION-HEALTHCARE
The curriculum (8 weeks for 1 credit hour) is the Oklahoma Health Department Injury Prevention Tai Chi: Moving for Better Balance evidence-based fall prevention training enriched by interdisciplinary research & experience of faculty, working professionals, and area citizens. The fall prevention training is certified teacher training. Interdisciplinary insights will be from Psychology (i.e. cognitive behavioral therapy in overcoming the fear of falling), Pharmacy, both urban and rural outreach programs, Allied Health, Rehabilitation, Nursing, and all fields serving the health and safety of seniors.

GSTDY 1751 INTERDISCIPLINARY FALL PREVENTION EDUCATION-BUSINESS AND SOCIAL SCIENCES
The curriculum (8 weeks for 1 credit hour) is the Oklahoma Health Department Injury Prevention Tai Chi: Moving for Better Balance: A Guide for Program Implementation enriched by the interdisciplinary research and experience of faculty, working professionals, and area citizens in the fields of the political, historical, and economic impact of injuries and related health issues on older adults-especially in Western Oklahoma. The Fall Prevention Training is certified teacher training.

GSTDY 2061 PRESIDENT’S LEADERSHIP III
Mid-level leadership course (one-hour credit per semester.) Students will learn about different leadership theories and be able to put those into practice. This class is designed for students to learn the importance and practice of leadership on campus and in the community. The main objective is to produce outstanding graduates who will assume roles as leaders in their chosen professions and communities. Signature only. F

GSTDY 2071 PRESIDENT’S LEADERSHIP IV
Advanced leadership course (one-hour credit per semester.) Students will learn about different leadership theories and be able to develop their own leadership style and put it into practice. This class is designed for students to build upon their leadership skills and be able to recognize leadership skills in others. The main objective is to produce outstanding graduates who will assume roles as leaders in their chosen professions and communities. Signature only. S

SELF-PACED ONLINE COURSES

GSTDY 1901 BASIC MS PROJECT
Self-paced introduction to Microsoft Project. Topics include creating a project, adding tasks, assigning resources, leveling resources, reports, Gantt charting, PERT, and CPM.

GSTDY 1901 BASIC MOZILLA FIREFOX
Self-paced study for using Mozilla Firefox. Topics will include web research techniques and search engines, communicating over the internet using Mozilla Thunderbird and Firefox Customization.

GSTDY 1901 BASIC WINDOWS 7
Self-paced study in using Basic Windows 7 covering fundamental Windows usage, multimedia usage, basic network use, and file management and maintenance

GSTDY 1901 BASIC ACCESS 2016
A self-paced study of Microsoft Access 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database, maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

GSTDY 2901 INTERMEDIATE ACCESS 2016
A self-paced study of Microsoft Access 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database, maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

GSTDY 2901 ADVANCED ACCESS 2016
A self-paced study of Microsoft Access 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database,
maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

**GSTDY 1901 BASIC EXCEL 2016**
A self-paced study of Microsoft Excel 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

**GSTDY 2901 INTERMEDIATE EXCEL 2016**
A self-paced study of Microsoft Excel 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

**GSTDY 2901 ADVANCED EXCEL 2016**
A self-paced study of Microsoft Excel 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

**GSTDY 1901 BASIC EXCEL FOR ENGINEER & TECH**
Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

**GSTDY 1901 INTERMEDIATE EXCEL FOR ENGINEER & TECH**
Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

**GSTDY 2901 INTERMEDIATE EXCEL FOR ENGINEER & TECH**
Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

**GSTDY 2901 ADVANCED EXCEL FOR ENGINEER & TECH**
Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

**GSTDY 1901 BASIC ILLUSTRATOR CC**
A self-paced study of Adobe Illustrator CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

**GSTDY 2901 INTERMEDIATE ILLUSTRATOR CC**
A self-paced study of Adobe Illustrator CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

**GSTDY 2901 ADVANCED ILLUSTRATOR CC**
A self-paced study of Adobe Illustrator CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

**GSTDY 2901 INTERMEDIATE INDESIGN CC**
A self-paced study of Adobe InDesign CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include exploring the workspace, changing views, navigating, formatting text and paragraphs, creating and applying styles, creating and using master pages, placing text and thread text, creating sections, aligning and distributing objects on a page, stacking and layering objects, working with frames, and working with colors.

**GSTDY 2901 ADVANCED INDESIGN CC**
A self-paced study of Adobe InDesign CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include exploring the workspace, changing views, navigating, formatting text and paragraphs, creating and applying styles, creating and using master pages, placing text and thread text, creating sections, aligning and distributing objects on a page, stacking and layering objects, working with frames, and working with colors.

**GSTDY 1902 BASIC MM FLASH MX 2004**
A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

**GSTDY 2902 INTERMEDIATE MM FLASH MX 2004**
A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

**GSTDY 2902 ADVANCED MM FLASH MX 2004**
A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

**GSTDY 1901 BASIC PHOTOSHOP CC**
A self-paced study of Adobe Photoshop CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Photoshop, working with layers, making selections, incorporating color techniques, placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image, and creating images for the Web.

**GSTDY 2901 INTERMEDIATE PHOTOSHOP CC**
A self-paced study of Adobe Photoshop CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include working with layers; making selections; incorporating color techniques; placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image, and creating images for the Web.

**GSTDY 2901 ADVANCED PHOTOSHOP CC**
A self-paced study of Adobe Photoshop CC as part of a three-part series covering introductory through advanced concepts in using the application. Topics include working with layers; making selections; incorporating color techniques; placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image, and creating images for the Web.

**GSTDY 1901 BASIC POWERPOINT 2016**
A self-paced study of Microsoft PowerPoint 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show,
modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

**GSTDY 2901 INTERMEDIATE POWERPOINT 2016**
A self-paced study of Microsoft PowerPoint 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show, modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

**GSTDY 2901 ADVANCED POWERPOINT 2016**
A self-paced study of Microsoft PowerPoint 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show, modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

**GSTDY 2901 INTERMEDIATE PUBLISHER 2016**
A self-paced study of Microsoft Publisher 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and editing a publication; designing a newsletter, brochure, or web site; creating business forms; and integrating Publisher with other Office applications.

**GSTDY 2901 ADVANCED PUBLISHER 2016**
A self-paced study of Microsoft Publisher 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and editing a publication; designing a newsletter, brochure, or web site; creating business forms; and integrating Publisher with other Office applications.

**GSTDY 2901 ADVANCED WORD 2016**
A self-paced study of Microsoft Word 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

**GSTDY 1901 BASIC WORD 2016**
A self-paced study of Microsoft Word 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

**GSTDY 2901 ADVANCED WORD 2016**
A self-paced study of Microsoft Word 2016 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

**GSTDY 3212 STUDENT LEADERSHIP I**
Student Leadership is a training course for student orientation leaders. The course is designed to teach students leadership strategies and information about SWOSU so that they can help facilitate the transition to college for incoming students. Topics covered include SWOSU enrollment procedures, SWOSU student/campus resources, and varying leadership styles. As part of the course, students assist with all aspects of New Student Orientation programming. Student Leadership is a service learning course. Signature Only.

**GSTDY 3222 STUDENT LEADERSHIP II**
Student Leadership is a training course for student orientation leaders. The course is designed to teach students leadership strategies and information about SWOSU so that they can help facilitate the transition to college for incoming students. Topics covered include SWOSU enrollment procedures, SWOSU student/campus resources, and varying leadership styles. As part of the course, students assist with all aspects of New Student Orientation programming. Student Leadership is a service learning course. Signature Only.

**GSTDY 3232 STUDENT LEADERSHIP III**
Student Leadership is a training course for student orientation leaders. The course is designed to teach students leadership strategies and information about SWOSU so that they can help facilitate the transition to college for incoming students. Topics covered include SWOSU enrollment procedures, SWOSU student/campus resources, and varying leadership styles. As part of the course, students assist with all aspects of New Student Orientation programming. Student Leadership is a service learning course. Signature Only.

**GSTDY 3242 STUDENT LEADERSHIP IV**
Student Leadership is a training course for student orientation leaders. The course is designed to teach students leadership strategies and information about SWOSU so that they can help facilitate the transition to college for incoming students. Topics covered include SWOSU enrollment procedures, SWOSU student/campus resources, and varying leadership styles. As part of the course, students assist with all aspects of New Student Orientation programming. Student Leadership is a service learning course. Signature Only.
COLLEGE OF ARTS AND SCIENCES

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer,
D = Classes offered upon Demand, O = Odd years, E = Even years)

DEPARTMENT OF ART, COMMUNICATION AND THEATRE

ART 1113 FUNDAMENTALS OF ART
Examination of the basics in art. Foundation laid for future participation in drawing and painting. This course cannot be used to satisfy General Education requirements. F, S

ART 1123 FOUNDATIONS I, DRAWING
Development of basic drawing skills and powers of observation. Topics include: gesture, line, volume, value, perspective, sighting and texture. A variety of materials and techniques will be explored. F

ART 1133 FOUNDATIONS II, TWO DIMENSIONAL DESIGN
A study of the organizing principles and visual elements of two-dimensional design (unity, variety, balance, color, value, line, texture). Students will explore the concepts covered through assignments which utilize a variety of materials. Emphasis is placed on the development of independent research skills. S

ART 1143 FOUNDATIONS III, THREE DIMENSIONAL DESIGN
A study of three-dimensional form with emphasis on the elements of art and principles of design. Various media, construction techniques, and areas of art history, aesthetics and art criticism, as applied to form, will be explored. F

ART 1153 INTRO TO PHOTOGRAPHY
This course offers practical instruction in digital photography by teaching the fundamentals of camera operation, composition, and the digital workflow. These applications will be used to explore several genres of photography in natural light settings, while discussing the theory and objectives to consider when photographing these genres. Assignments and projects will be issued throughout the course to allow students the opportunity to exemplify each class topic, followed by class review and critique. Course provides opportunity for continued development. A digital camera is required.

ART 1213 PERSPECTIVE
An introduction to the essentials of beginning perspective and advanced perspective devices. Both linear and atmospheric perspective are covered. Prerequisites: ART 1123 and ART 1133. D

ART 1661 COMPUTER APPLICATIONS
Introductory class for art students into the graphic arts. Teaches basic understanding of Photoshop and Illustrator. F, S

ART 1223 ART SURVEY
This General Education course traces the history of art from prehistory to the present. Emphasis is on art of the western world from antiquity through the modern era. Among the topics covered are the art of Renaissance Europe, Impressionism and Post-Impressionism, as well as ways of seeing and the influence of non-Western cultures. F, S

ART 2113 ACRYLIC TECHNIQUES
Beginning level easel painting course focusing on development of student’s individual expression in form and color. Prerequisites: ART 1123 and ART 1133. D

ART 2133 INTRODUCTION TO GRAPHIC DESIGN
Introduces graphic design as a means of visual communication. Formal principles of design, semantics, symbol theory, and theory of communication will be studied. Macintosh graphics and illustrator will also be studied in the execution of the class projects. Previous computer experience is not required. Prerequisites: ART 1123 and ART 1133. F

ART 2143 HISTORY AND THEORY OF GRAPHIC DESIGN
This is a five part survey of the history of graphic design, including the influences of Modern Art and the Bauhaus on graphic design. Course work concludes with the effects of the information age and the global village on graphic design. Prerequisites: ART 1123 and ART 1133. S

ART 3011-4 SEMINAR IN ART
Group study of specific topics needed for special courses offered on an irregular basis.

ART 3113 WATERCOLOR STUDIO
Study and practice of traditional transparent watercolor technique and experimentation with contemporary methods. Emphasis on composition, color, process and technique. Prerequisites: ART 1123 and ART 1133. D

ART 3153 FIGURE DRAWING
Develop skills of craftsmanship and perception while studying the figure. Prerequisites: ART 1123 and ART 1133. D

ART 3212 AESTHETICS AND ART CRITICISM
A course designed to introduce the student to what aesthetics is, the nature of aesthetic judgment, perception and aesthetic theory. Criticism is examined as a way to approach the study of art. S

ART 3223 TAPESTRY
The basics of tapestry weaving. Students will learn the essential tapestry weaving techniques and how to weave a variety of shapes. D

ART 3353 CLAY STUDIO
A study in ceramic design using both hand-built and wheel methods of construction. Firing and glazing procedures will also be covered. F, S, SU

ART 3383 MIXED MEDIA
Students draw upon a wide range of materials such as paper, metal, clay, plaster, wax, plastic and found objects while incorporating various techniques in the fabrication of 3-D works. Students incorporate materials and technical skills that they may already possess. D

ART 3413 SCULPTURE STUDIO
Three-dimensional work in the area of sculpture. Emphasis is placed on fundamental sculpture techniques and the elements of art and principles of design as applied in a three-dimensional composition. Prerequisites: ART 1123, ART 1133 and ART 1143. D

ART 3483 PRINTMAKING STUDIO
Printmaking by hand transfer and with the press. Composition and personal expression are emphasized. Intaglio and relief methods are explored. Prerequisites: ART 1123 and ART 1133. F, S

ART 3513 INTERMEDIATE GRAPHIC DESIGN I
Introduction to web design using Dreamweaver and Flash programs. Prerequisites: ART 1123, ART 1133 and ART 2133. F
ART 3593 AMERICAN ART HISTORY  
The focus of this course is an overview of the painting, sculpture and architecture of the United States from the golden age to the expression of today, with attention to the 20th century struggle for stylistic independence from European influence. Native American Modernism and the Harlem renaissance will be addressed. D

ART 3613 HISTORY OF ART I  
A survey of art from prehistory through the Gothic era, this course considers the visual culture of Ancient Egypt, Mesopotamia, Greece and Rome, the influence of non-Western cultures on Christian art in the west, the art and architecture of Early Christian and Byzantine Europe, and the rise of the Romanesque and Gothic styles. D

ART 3653 HISTORY OF ART II  
Continuing the survey of art begun in ART 3613, this course follows the Renaissance development of modern ways of seeing, the rise of the Baroque and Rococo, the battle between Neoclassicism and romanticism during the early nineteenth century, and the optical experiments of the Impressionists and Post-Impressionists. D

ART 3683 ILLUSTRATION STUDIO  
Visual communication is stressed, expressing both the artist and the subject matter. Traditional illustration media includes marker, color pencil, airbrush, watercolor, acrylic and oil paint. Prerequisites: ART 1123, ART 1133 and ART 2133. D

ART 3753 LIFE DRAWING  
Observational drawing with an emphasis on composition. Various techniques and subjects will be explored. Prerequisites: ART 1123 and ART 1133. D

ART 3783 INTERMEDIATE GRAPHIC DESIGN II  
Projects explore design processes in two or three dimensions, visual identity and communication, thematic structure and hierarchy, creative problem solving and basic design practice of critiques and discussion. Emphasis is placed on using media techniques, concepts, strategies and professionalism in all aspects of design. Upon completion, students should be able to conceptualize, create and produce designs for reproduction. Prerequisites: ART 1123, ART 1133, and ART 2133. F

ART 3853 TYPOGRAPHIC DESIGN  
Course content includes the anatomy of typographical letter forms, fonts and classifications. Syntax, space, visual hierarchy, typographical grids, function, expression and communication theory are stressed. Course work will be done on Power Macintosh computers, using Quark/Xpress and Adobe Illustrator software. Prerequisites: ART 1123, ART 1133, and ART 2133. D

ART 3883 ADVERTISING DESIGN  
Course work includes logo and corporate identity development. Traditional advertising formats are studied and applied to a fictional company created by the student. Prerequisites: ART 2133, ART 2143, and ART 3853. D

ART 3923 ADVANCED GRAPHIC DESIGN I  
This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions including but not limited to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving. Prerequisites: ART 2133, ART 2143, and ART 3853. S

ART 3953 PROFESSIONAL PRACTICES OF GRAPHIC DESIGN  
This course provides the student practical real-world experience in the field of design. It should be approached as an internship, and subsequently the requirements can be achieved effectively through a summer internship with an appropriate agency under supervision of an instructor. Not recommended for Design Studio Employees. Prerequisites: ART 2133, ART 2143 and ART 3853. D

ART 4001-4 INDIVIDUAL STUDY IN ART (TOPIC)  
Individual study of specified topic for undergraduate students. Credit 1 to 4 semester hours.

ART 4011-4 SEMINAR IN ART (TOPIC)  
Group study of specified topic for undergraduate students. Credit 1 to 4 semester hours. D

ART 4163 PORTFOLIO  
The objective of this course is to prepare Graphic Design majors for the job market. Students will research the current job market and prepare a career plan. A portfolio will be created with a resume, a self-promotional mailer and 35 mm slides. Prerequisite: Sr. Status. S

ART 4253 APPLIED DESIGN  
A studio course involving the design, execution and study of contemporary trends in crafts. Prerequisites: ART 1123 and ART 1133. SO

ART 4313 PAINTING STUDIO  
An exploration of opaque painting techniques and processes. The development of pictorial form and content is emphasized. Prerequisites: ART 1123 and ART 1133. D

ART 4333 STUDIO DRAWING  
Studio Drawing will explore creative and expressive approaches to drawing with an emphasis on diversity of techniques. Experiences utilizing a variety of media will be used to develop fundamental and advanced drawing concepts. Prerequisites: ART 1123 and ART 1133. S

ART 4353 MODERN ART HISTORY  
This course, continuing the survey of art begun in ART 3613 and ART 3653, investigates the history of painting, sculpture and architecture from the late nineteenth century through World War II. Symbolism, Post-Impressionism, Cubism and Expressionism are among the trends discussed, as are the art of Picasso, Duchamp, Klimt and Dali. D

ART 4383 ART HISTORY SINCE 1945  
This survey, completing the series begun with ART 3613, 3653 and 4353, traces the development of art from the rise of the New York School to the present day. Among the topics discussed are Abstract Expressionism, Pop and Op Art, and the art of Jackson Pollock, Mark Rothko, Andy Warhol and Keith Haring. D

ART 4393 NON-WESTERN ART HISTORY  
Supplementing rather than replacing the traditional art survey, this course examines the history of art and visual culture of non-Western civilizations with emphasis on Asia, Africa, Oceania and native America. Topics include the art of Japan, China and Nigeria, as well as the visual legacy of the Aztec, Mayan and Incan civilization. D

ART 4413 Advanced Graphic Design II  
This course is a continuation of the techniques learned in Advanced Graphic Design I. The course further develops the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising and publication design. Upon completion,
students should be able to effectively apply design principles and visual elements to projects. **Prerequisites: ART 2133, ART 2143 and ART 3853.**

**ART 4452 CONTENT, METHODS AND MATERIALS IN ELEMENTARY SCHOOL ART**
Current methods of applying Discipline-Based Art Education will be used to explore ways to integrate the visual arts into the elementary grades. **Prerequisite:** Admission to Teacher Education Program. F, S

**ART 4553 TEACHERS’ COURSE IN ART**
This course explores methods of teaching visual art at the secondary level. In-depth attention will be given to the application of Discipline-Based Art Education assignments at this level. **Prerequisites:** Art major or endorsement and admission to the Teacher Education Program. D

**ART 4651 SENIOR EXHIBIT**
Students will prepare and present a body of work produced as an undergraduate. Emphasis will be on professionalism in presentation as well as the quality of artwork selected. F, S

**Communication Arts**

**COMM 1263 INTRODUCTION TO THEATRE**
Background, philosophy and practices of theatre arts, the theory and practice of elementary principles of direction, acting, and stagecraft. All of the above will be applied to the study of American, British, and European plans representing major literary periods from classic to contemporary. F, S

**COMM 1313 INTRODUCTION TO PUBLIC SPEAKING**
This course provides students with an in-depth analysis of public speaking. It includes a thorough examination of the theoretical framework of public speaking and requires students to put those theories into practice. Students will build critical thinking skills by constructing their own messages and evaluating those of others. This course is designed to heighten students’ skills as well as increase their confidence as public speakers. F, S, SU

**COMM 2063 VOICE AND DICTION**
Study of vocal elements and phonetics, emphasis on function of speech and on vocal musculature. D

**COMM 2103 INTRODUCTION TO MASS COMMUNICATION**
Basic study of the nature and function of mass communication systems, their audiences, social impact, pressures, and regulations. F, S

**COMM 2113 WRITING FOR MASS MEDIA**
Introduction to writing for both print and broadcast media. Includes news, feature, editorial, and sports writing. F

**COMM 2123 INTERPERSONAL COMMUNICATION**
The study of symbolic and nonverbal communication in dyadic settings. F, S

**COMM 2213 NEWS GATHERING AND REPORTING**
New gathering and writing for publication. Reporting beyond the inverted pyramid style. **Prerequisite:** COMM 2113. F, S

**COMM 2223 INTRODUCTION TO COMMUNICATION STUDIES**
This course will be an overview of the field of communication and will be a required course for all communication arts majors with an emphasis in communication studies. This course will introduce students to the research methodologies for the field of communication and to the major areas of study, i.e., interpersonal communication, small group, organizational, intercultural, health, family communication and political communication. S

**COMM 2363 ACTING I**
Introduction to basic principles of acting and development of basic acting techniques, training through lectures, class improvisations and play analysis. F

**COMM 2763 STAGECRAFT**
The construction, painting, rigging, and handling of stage scenery and properties. FO

**COMM 3013 THEATRICAL MAKE-UP**
Study and implementation of the principles, skills, techniques, materials, and methods relevant to the selection, design, and application of stage make-up for varying dramatic genres and purposes. SO

**COMM 3023 LIGHTING DESIGN**
The course covers the principles of designing, mounting and operating stage lighting applied to actual campus productions. Students in this course will light student-directed plays developed in COMM 3263. Play Directing and Production. SO

**COMM 3073 PERSUASION**
Exposure to several theories of persuasive communication. Practical assignments used to test theories and develop persuasive skills. FO

**COMM 3113 NEWS EDITING**
Problems of the editorial desk, including editing and proofreading, layout/design, headline writing and desktop publishing. F, S

**COMM 3213 ADVANCED NEWS EDITING**
This continuation of COMM 3113 covers advanced newspaper design, copy-editing, and proofreading with additional instruction in grammar, syntax, and writing style. **Prerequisites:** COMM 3113 and ENGL 1213. D

**COMM 3213 FEATURE WRITING**
Writing the feature story for both newspapers and magazines. **Prerequisites:** Six hours of English. F

**COMM 3333 PHOTOJOURNALISM**
This course covers basic and intermediate photography as applied to journalism. Students use digital and 35mm cameras to produce color and black-and-white images. Additionally, they use computer programs to manipulate digital images and insert them into text-based or web-based publications. SU

**COMM 3413 DESKTOP PUBLISHING**
Electronic publishing using personal computers and software for word processing, page building, image manipulation, scanning, and editing. Includes personal web page building and web site management as a form of desktop publishing relevant to Mass Communication. F

**COMM 3543 SMALL GROUP COMMUNICATION**
Study of ways in which group discussion functions and means of becoming effective discussion leaders and participants. FE

**COMM 3553 ORAL INTERPRETATION**
A study of the theory, principles, and techniques of the interpretation of literature for oral performance. D

**COMM 3563 ARGUMENTATION AND DEBATE**
Study and application of logic and argumentation; practical application through debate and discussion. FE
COMM 3573 INTERCULTURAL COMMUNICATION
Students examine the ways that communication varies in different cultures. Kinds of differences studied include nationalities, languages, ethnicities, gender, age and others. SE

COMM 3613 SPECIALIZED PUBLICATIONS
Principles, methods, and problems of specialized publications, including magazines, newsletters, anthologies, yearbooks, programs and special public relations publications. F, S

COMM 3663 SCRIPT ANALYSIS
Focus is on the foundational approaches to script analysis and form/style/mood distinctions through reading and analysis of representative plays from distinct perspectives of playwright, actor, designer, and director; analysis is conducted through an in-depth study of assigned plays. Particular emphasis is placed upon analyzing a play’s meaning through plot and character construction, story, persuasive imagery, and language. Projects on assigned plays are further developed through readings in criticism and history and through live and/or videotaped theatrical productions. Prerequisites: COMM 1263 and COMM 2763. F

COMM 3761 THEATRE PRODUCTION
Workshop experience in the practical application of theatre skills. Credit can be earned in stagecraft, lighting/sound, costume/makeup, and management/publicity. F, S

COMM 3763 STAGE MANAGEMENT
Stage management is a class designed to introduce the student to the process of a theatrical production from inception to completion with an emphasis on the managerial aspects of the production. Specifically, the student will have basic understanding of stage management for the theatre.

COMM 3963 COSTUME HISTORY
A study of the design and development of costume from ancient times up to the present. D

COMM 4001-4 INDIVIDUAL STUDY IN COMMUNICATIONS
Specific topic in Communications. One to four credit hours. D

COMM 4011-4 SEMINAR IN COMMUNICATIONS (TOPIC)
Group study of specified topic. One to four credit hours. D

COMM 4121 SENIOR SEMINAR
This course is required during the senior year for Communication Studies emphasis students. Students will produce an approved presentation and portfolio to be reviewed by the department assessment committee. S

COMM 4243 MEDIA PRODUCTION
Students are provided opportunities to develop their communication skills through audio and video media projects.

COMM 4293 MEDIA LAW AND ETHICS
Overview of First Amendment rights and responsibilities. Includes issues of obscenity, liable, censorship, rights of privacy, trial by media, rights of access, and political correctness. S

COMM 4343 COMMUNICATION THEORY
Introduction to theories and methods used to study human communication phenomena across several contexts. SO

COMM 4363 ORGANIZATIONAL COMMUNICATION
A course integrating theory and practice focusing on how people in professions are able to succeed in their jobs and careers through effective communication practices. FO

COMM 4403 SCENE DESIGN
Study of the theory of designing stage settings, including both aesthetic and practical considerations. Practice in creating sketches, floor plans, construction drawings, and set models. Prerequisite: COMM 2763. SE

COMM 4463 THEATRE HISTORY: GREEK TO 1660
Survey of growth and development of the theatre from its beginnings to 1660 with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. FO

COMM 4483 PLAY DIRECTING AND PRODUCTION
This course covers the techniques of directing and producing plays: script analysis, play selection, casting, and approaches to rehearsal. Students will direct one-act plays for public performance. Prerequisites: COMM 2363, COMM 2763 and COMM 3663. SO

COMM 4563 TEACHING SPEECH IN THE SECONDARY SCHOOL
Problems and methods of teaching speech and directing speech activities in the secondary school. Prerequisite: Admission to the Teacher Education Program. D

COMM 4663 THEATRE HISTORY: 1660 TO PRESENT
Survey of growth and development of the theatre from 1660 to the present with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. SE

COMM 4813 PRINCIPLES OF PUBLIC RELATIONS
This course is designed to expose students to the practices of writing and designing public relations documents. To help students develop the skills necessary for a career in public relations. Students will also be provided an understanding of the necessity and benefits of public relations to the business world. F

COMM 4823 WRITING FOR PUBLIC RELATIONS
This course is designed to develop writing skills necessary to a career in public relations. Students will be provided with exposure to the stresses of deadline requirements inherent within the public relations profession. Students will develop research skills necessary for public relations writing. S, E

COMM 4833 PRINCIPLES OF ADVERTISING
This course is designed to introduce students to different perspectives of advertising and the integration of marketing and sales. Students will be engaged in learning and applying various advertising strategies as well as creating various advertisements. Students will be challenged to create and evaluate marketing and advertising strategies through the use of a variety of advertising media. S

COMM 4963 ACTING II
Intensive study of acting techniques with special emphasis on character development, vocal patterns, and physical movement. SE

DEPARTMENT OF BIOLOGICAL SCIENCES

BIOL 1004 BIOLOGICAL CONCEPTS
An introduction to the concepts and methods of biology needed to understand biological issues faced by society. Upon completion of the course students will be able to apply the scientific method to problem solving and to explain natural phenomena. Students will also understand
such concepts as the role of the cell in maintaining conditions essential for life. In addition, students will be able to describe the interactions between living organisms and the environment at the population, ecosystem, and biosphere levels and to identify potential impacts on society of biotechnology, world population growth, and human influences on global biogeochemical cycles. Does not apply to Biology major or minor credit. F, S, SU

BIOL 1013 CURRENT ISSUES IN BIOLOGY I
Students will be introduced to how basic knowledge of biological sciences can contribute to their growth as informed global citizens. The course focuses on biological principles that have immediate applications in our everyday lives. The course will also require that students use the knowledge they received to debate important issues, solve problems, and communicate complex issues to their peers. Does not apply to Biology major or minor credit. F, S

BIOL 1054 PRINCIPLES OF BIOLOGY I
Introduction to major molecular, cellular and genetic principles needed to understand the functioning of all organisms. Investigative laboratories introduce important techniques and methodologies used by modern biologists. Students will be introduced to scientific procedure, reasoning, problem solving, and reporting. Required for all biological sciences majors and minors and recommended for pre-professional and other science majors. Corequisite: BIOL 1054L. F, S, SU

BIOL 1254 PRINCIPLES OF BIOLOGY II
Introduction to major principles of evolutionary theory, the unity and diversity of life, and form and function in living organisms. The course and laboratory emphasize practice of scientific procedure while developing skills in reading, writing, researching, and speaking about science. Students are introduced to biological tools and techniques for understanding form and function. Required for all biology majors and minors as well as programs in medical laboratory science and secondary education. Corequisite: BIOL 1254L. Prerequisite: BIOL 1054. F, S

BIOL 3012 BIOLOGICAL TERMINOLOGY
The course is designed to familiarize the students with the terminology used in biological disciplines. This familiarization will be accomplished by learning root words, prefixes, and suffixes from Latin and Greek and by studying word analysis techniques. S

BIOL 3053 CELL BIOLOGY
This course introduces the study of molecular, morphological, and physiological aspects of cell biology. Lecture only. Prerequisites: BIOL 1054 and BIOL 1254. F, S

BIOL 3152 GENETICS AND CELL BIOLOGY LABORATORY
The laboratory study of genetics and cell biology. Corequisite: BIOL 3253. Prerequisites: BIOL 1054 and BIOL 1254. F, S

BIOL 3253 GENETICS
An introduction to genetics including Mendelian, molecular, and population genetics. Required for all Biological Science majors and Natural Science Education majors. Prerequisites: BIOL 1054 and BIOL 1254. Corequisite: BIOL 3152. F, S

BIOL 3283 ECOLOGY
Introduction to population, community, and ecosystem ecology. Lecture only. Prerequisites: BIOL 1054 and BIOL 1254. F, S

BIOL 3304 AQUATIC ECOLOGY
An introduction to freshwater ecosystems (rivers and lakes) with respect to their physical, chemical, and biological structure. These diverse aspects are united in the concept of trophic status. Adaptations of aquatic organisms to the aquatic environment are emphasized. The laboratory involves extensive field studies in local aquatic environments with emphasis on collection methods, analytical techniques, and data analysis. Fulfills program field course requirement. Corequisite: BIOL 3304L. Prerequisites: BIOL 1054 and BIOL 1254. F, S, SU

BIOL 3604 BIOLOGY OF INSECTS
A study of the fundamental principles of insect life, insect morphology, and physiology, classification and recognition of common families of insects, economic relations and fundamentals of insect control. Methods of collecting and preserving and displaying insects are also covered. Corequisite: BIOL 3604L. Prerequisites: BIOL 1054 and BIOL 1254. F, S

BIOL 3704 HUMAN ANATOMY
A study of the normal functional anatomy of the human body. The laboratory includes extensive use of human models and cat dissection. Corequisite: BIOL 3704L. Prerequisites: BIOL 1004 or 1054. Recommended: 3012. F, S, SU

BIOL 3814 BIOLOGY OF PLANTS
This course includes the study of algae, non-vascular and vascular plants with emphases on plant cell biology, morphology and physiology, classification, and ecology. Corequisite: BIOL 3814L. Prerequisites: BIOL 1054 and BIOL 1254. F, S, SU

BIOL 3904 HUMAN PHYSIOLOGY
A study of the normal function of the human body. Strong emphasis is placed on homeostasis. Corequisite: BIOL 3904L. Prerequisites: BIOL 1004 or 1054 and CHEM 1004 or higher numbered chemistry course. F, S, SU

BIOL 4001-4 INDEPENDENT STUDY IN BIOLOGICAL SCIENCES (TOPIC)
Independent study of a specified topic for undergraduate students. Credit one to four hours. Up to 4 hours of independent study credit may be applied to the biological sciences major. F, S, SU

BIOL 4011-4 SEMINAR IN BIOLOGY (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. F, S, SU

BIOL 4021-4 SPECIAL TOPICS IN BIOMEDICAL SCIENCES
Provides special topics in biomedical sciences with variable topics for 1-4 credit hours. May include laboratory. May be repeated for a maximum of 4 credit hours. Enrollment by signature only. Prerequisites: BIOL 1054 and BIOL 1254 and junior, senior, or graduate standing. D

BIOL 4031-4 SPECIAL TOPICS IN MICROBIOLOGY
This course is offered with variable topics in microbiology for 1 to 4 credit hours. A maximum of 4 credit hours may be applied toward the B.S. Biological Sciences degree. Prerequisites: BIOL 1054 and BIOL 1254 and junior, senior, or graduate standing. D

BIOL 4041-4 SPECIAL TOPICS IN ENVIRONMENTAL AND ORGANISMAL BIOLOGY
Provides special topics in environmental biology and the biology of organisms with variable topics for 1-4 credit hours. May include laboratory. May be repeated for a maximum of 4 credit hours. Enrollment by signature only. Prerequisites: BIOL 1054 and BIOL 1254 and junior, senior, or graduate standing. D
BIOL 4154 DEVELOPMENTAL BIOLOGY
The exploration of synthesis of vertebrate and invertebrate organisms. Cellular and molecular aspects of animal development will be covered as well as medical implications of developmental biology. Enrollment by signature only. Corequisite: BIOL 4154L. Prerequisites: BIOL 1054 and BIOL 1254. D

BIOL 4204 VERTEBRATE BIOLOGY
A comparative study of vertebrate adaptations including anatomy and physiology, behavior, and natural history. Includes laboratory and field biology. Corequisite: BIOL 4204L. Prerequisites: BIOL 1054 and BIOL 1254. SE

BIOL 4213 IMMUNOLOGY
The study of the body’s immune system and its relationship to health and disease. Prerequisite: BIOL 4355. F, S

BIOL 4254 INVERTEBRATE BIOLOGY
A comparative study of adaptations of invertebrate organisms including anatomy and physiology, behavior, classification and identification, and natural history. The course includes laboratory and field activities. Corequisite: BIOL 4254L. Prerequisites: BIOL 1054 and BIOL 1254. SO

BIOL 4284 PARASITOLOGY
Overview of viral, fungal, bacterial and eukaryotic parasites infecting humans. Lab includes collection, isolation, cultivation, and identification of parasites. Corequisite: BIOL 4284L. Prerequisites: BIOL 1054 and BIOL 1254. D

BIOL 4314 ENVIRONMENTAL BIOLOGY
The study of anthropogenic (man-made) effects of pollution on the environment, including the effects on plant and animal life as well as humans. Fulfills biological sciences field course requirement. Corequisite: BIOL 4314L. Prerequisites: BIOL 1054 and BIOL 1254. D

BIOL 4343 APPLIED MICROBIOLOGY
This covers topics including medical applications of gene therapy and therapeutic agents, industrial microbiology and fermentation, agricultural applications, microbial ecology, and food microbiology. Includes laboratory demonstrations in lecture. Prerequisite: BIOL 4355. D

BIOL 4355 MICROBIOLOGY
A basic study of microorganisms involving classification and cultivation of bacteria, fungi, and viruses. Special emphasis is directed toward microbial morphology and physiology of disease causing microorganisms, antibiotics, and their action, and immune mechanisms. Corequisite: BIOL 4355L. Prerequisites: CHEM 1004 or CHEM 1203 and BIOL 1004 or BIOL 1054. F, S, SU

BIOL 4404 PATHOGENIC MICROBIOLOGY
Provides an overview of microbial physiology, molecular genetic mechanisms of pathogenicity, disease pathology, and clinical diagnosis procedures. Emphasis is placed on specific bacterial and viral pathogens. Corequisite: BIOL 4404L. Prerequisite: BIOL 4355. D

BIOL 4454 PLANT TAXONOMY
A study of the history, literature, and principles of plant taxonomy, with emphasis on the flowering plant flora of Oklahoma. Corequisite: BIOL 4454L. Prerequisites: BIOL 1054 and 1254. Recommended: BIOL 3253. SE

BIOL 4463 VIROLOGY
A study of bacterial and animal viruses, including virion structure, cultivation, molecular genetics, and mechanisms of infection. Attention is given to viral diseases, their pathology, control, and prevention. Prerequisite: BIOL 4355. D

BIOL 4503 MICROBIAL PHYSIOLOGY
This course involves the physiological and biochemical activities of bacteria with emphasis on structure, function, and molecular control mechanisms. Pathogenic and non-pathogenic bacteria are considered. Prerequisite: BIOL 4355. D

BIOL 4523 ENVIRONMENTAL MICROBIOLOGY
Lecture and laboratory instruction on microbe-microbe and microbe-environment interactions. Areas of study will be air, water, wastes, soil and special environments such as industrial and domestic wastes. Two hours of lecture and two hours of laboratory per week. Corequisite: BIOL 4523L. Prerequisite: BIOL 4355. D

BIOL 4604 TERRESTRIAL ECOSYSTEM
A study of terrestrial biomes with emphasis on interactions among organisms and the interactions between organisms and their environment that affect distribution and abundance. This course fulfills the plant and field course requirements for the B.S. Biological Sciences degree. Corequisite: BIOL 4604L. Prerequisites: BIOL 1054 and BIOL 1254 and junior, senior, or graduate standing. SO

BIOL 4622 ECONOMICALLY IMPORTANT PLANTS
A survey of plants of economic importance throughout the world. Essential food, drug, textile-fiber, and industrially valuable plants will be discussed in relationship to world economy and human population needs. Lecture only. Prerequisites: BIOL 1054 and 1254. FO

BIOL 4703 INFECTIOUS DISEASE EPIDEMIOLOGY
A study of the distribution patterns of infectious diseases within and across populations. Includes topics in population studies, disease and injury determinants, behavioral factors, and environmental factors. Lecture only. Prerequisite: BIOL 4355. D

BIOL 4853 EVOLUTION
An overview of evolution including historical development, underpinning evidence, and current science and applications. Prerequisites: BIOL 1054 and BIOL 1254. BIOL 3253 recommended. FE

BIOL 4864 HUMAN GENETICS
A study of human genetics that focuses on human molecular genetics including genetic factors causing diseases; changes in gene expression during development, differentiation, and pathogenesis; recombinant DNA; gene therapy; clinical genetics; genetic epidemiology; immunogenetics; cytogenetics; and genetics of specific disorders and diseases. Enrollment is by signature only. Corequisite: BIOL 4864L. Prerequisites: BIOL 3152 and BIOL 3253 and junior, senior, or graduate standing. D

BIOL 4901 BIOLOGICAL SCIENCES CAPSTONE
Students will demonstrate their knowledge and skills in biological sciences by completing and presenting guided original research or by searching the biological literature and presenting a review paper on a topic chosen from a designated course completed the previous semester. Students must submit a plan for completion when enrolling in the course. Enrollment requires permission of the instructor. Prerequisites: Biological sciences major and senior standing. F, S
BIOL 4914 GENERAL AND COMPARATIVE PHYSIOLOGY
A study of the principles of comparative animal physiology with emphases on morphological, physiological, and behavioral adaptations. Examples taken from humans, familiar animals, and uncommon animals that represent elegant solutions to survival problems and illustrate physiological concepts. The course covers the major organ systems of the body and their interactions with each other and the environment presented in an evolutionary and ecological context. Enrollment by permission of the instructor. Corequisite: BIOL 4914L. Prerequisites: BIOL 1054 and BIOL 1254 and CHEM 1303 and CHEM 1352 and junior or senior standing. F

BIOL 4935 CELL AND MOLECULAR BIOLOGY
A study of the cellular and molecular basis for the structure and organization of the cell with emphases on control of the cell cycle, transport of information and materials, and signaling. The laboratory emphasizes cellular and molecular tools and techniques and includes research and presentation of a cell/molecular biology question. Permission of the instructor is required. Corequisite: BIOL 4935L. Prerequisites: BIOL 1054 and BIOL 1254 and junior or graduate standing. FE

BIOL 4944 NEUROSCIENCE
A study of the molecular, structural, physiologic, cognitive, and behavioral aspects of the brain and nervous system. Includes molecular and cellular neuroscience, brain science, anatomy and physiology of the central nervous system, molecular and biochemical basis for information processing, and applications to clinical sciences and biomedical engineering. Corequisite: BIOL 4944L. Prerequisite: Junior, senior, or graduate standing. FO

BIOL 4974 HISTOLOGY
A study of the microanatomy and functional aspects of normal animal tissues. Corequisite: BIOL 4974L. Prerequisites: BIOL 1054 and 1254. Recommended: BIOL 3053 and/or 3704. D

Biology Credit for Summer Activities

Students who attend summer courses at the Gulf Coast Marine Research Laboratory (with which SWOSU is affiliated), the University of Oklahoma Biological Station, or other institutions of higher education, may be able to use those courses toward their biology degree. Likewise, students may earn college credit for some summer research positions and internships. Students who are considering such courses should meet with the Department Chair, prior to enrolling, to determine if these courses may be used toward their degree.

Medical Laboratory Science Clinical Courses
(Taught only at MLS accredited hospitals)

MLS 4117 CLINICAL MICROBIOLOGY
Lecture and supervised laboratory instruction in pathogenic bacteria, fungi, parasites, viruses, and antimicrobial susceptibility testing with emphasis on clinical decisions and medical significance. Includes quality control, computer application, instrumentation, quality assurance/improvement, and safety regulations.

MLS 4125 CLINICAL CHEMISTRY I
Lecture and supervised laboratory instruction in biochemistry methodology and clinical microscopy with emphasis on clinical decisions and medical significance. Includes quality control, computer application, instrumentation, quality assurance/improvement and safety regulations.

MLS 4236 CLINICAL HEMATOLOGY
Lecture and supervised laboratory instruction in routine and special hematology studies correlating hematological findings with medical significance including quality control, computer applications, instrumentation, quality assurance/improvement, and safety regulations.

MLS 4246 CLINICAL IMMUNOLOGY/IMMUNOHEMATOLOGY
Lecture on immunologic (antigen-antibodies) responses, serological methodology and theory of immunohematology as applied to blood groups, types, compatibility testing, and blood components. Supervised instruction in immunology and immunohematology methodology with emphasis on clinical decisions and medical significance; including quality control, computer application, instrumentation, quality assurance/improvement, safety and governmental regulations.

MLS 4325 CLINICAL CHEMISTRY II
Lecture and supervised laboratory instruction in biochemistry methodology with emphasis on clinical decisions and medical significance. Includes quality control, computer application, instrumentation, lab mathematics, quality assurance/improvement, and safety regulations.

MLS 4351 TOPICS IN MEDICAL LABORATORY SCIENCE
Lectures on principles and practices of the Medical Laboratory Scientist including management education (health care delivery system, ethics, professionalism, communication skills, human resources, and financial management), performance improvement, education methodology, laboratory information systems, safety and governmental regulations, and research design/special projects.

DEPARTMENT OF CHEMISTRY AND PHYSICS

ASTRO 1904 ASTRONOMY
An introductory course stressing basic science and how we arrived at our present knowledge. Topics include: history of astronomy; planets; meteorites; comets; asteroids; birth, life, and death of stars; galaxies; quasars; black holes; and cosmology. Several night viewing sessions will be arranged. F, S, SU

ASTRO 4012 SEMINAR IN ASTRONOMY
Study of topics of current interest such as extraterrestrial life, colonizing space, astrology, Bermuda Triangle, black holes, UFO’s, etc. Special attention is given to the questions asked of science teachers. D

CHEM 1004 GENERAL CHEMISTRY
A survey course in general chemistry designed for students requiring a single chemistry course (of 4 hours or fewer) in their major or for students requiring a preparatory course for CHEM 1203 and CHEM 1252, General Chemistry I. Topics include measurements, atomic theory, bonding, naming/formula of inorganic compounds, properties of solids/liquids/gases, energy (primarily heat), reactions (including balancing equations, stoichiometry, equilibrium), solutions/concentrations, and acids/bases. The laboratory is designed to offer the student a broad understanding of the major topics of the course. No prerequisites although a minimal algebra background is helpful. F, S

CHEM 1203 GENERAL CHEMISTRY I (LECTURE)
An introduction to chemical principles for students intending to major in science areas. Topics include concentration, stoichiometry, thermodynamics, atomic and molecular theory, properties of gases, liquids, and solids. Prerequisite: Completion of or concurrent enrollment in MATH 1513. F, S, SU

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CHEM 1252 GENERAL CHEMISTRY I (LAB)
Laboratory for General Chemistry I. Experimental investigation of those topics introduced in 1203 and introduction to visible spectroscopy. Corequisite: CHEM 1203. F, S, SU

CHEM 1303 GENERAL CHEMISTRY II (LECTURE)
A continuation of chemical principles for students intending to major in science areas. Topics include kinetics, equilibria, acids and bases, second law, electrochemistry, and nuclear chemistry. Prerequisites: CHEM 1203 and completion of or concurrent enrollment in CHEM 1252. F, S, SU

CHEM 1352 GENERAL CHEMISTRY II (LAB)
Laboratory for General Chemistry II. Experimental investigation of those topics introduced in CHEM 1303. Prerequisites: CHEM 1203 and CHEM 1252. Corequisite: CHEM 1303. F, S, SU

CHEM 2001-4 INDIVIDUAL STUDY IN CHEMISTRY (TOPIC)
Specified topic in Chemistry. 1-4 hours credit.

CHEM 2011-4 SEMINAR IN CHEMISTRY (TOPIC)
Study of specified topic in chemistry for undergraduate students. Credit one to four semester hours. D

CHEM 2112 STRUCTURE AND BONDING
A study of molecular structure and bonding beyond what is offered in General Chemistry courses. Topics covered include an overview of modern atomic theory, symmetry and group theory applications to chemistry, molecular orbital theory, advanced acid-base theories, descriptive inorganic chemistry, and nuclear chemistry. Prerequisite: CHEM 1303. S

CHEM 2114 ORGANIC/BIOCHEMISTRY
A survey course covering sufficient organic chemistry to support eight weeks of biochemistry material. The course is designed for Medical Technology majors, Environmental Technology majors, and Chemistry minors. The laboratory component of the course is designed to fortify the understanding of the major topics of the course. Prerequisites: CHEM 1303 and CHEM 1352. SO

CHEM 2122 PROBLEM SOLVING IN ORGANIC CHEMISTRY II
A recitation-style approach to solving problems relating to topics encountered in Organic Chemistry II. Corequisite: CHEM 4113 or CHEM 4115. Prerequisite: CHEM 3013 or CHEM 3015. D

CHEM 2612 PRINCIPLES OF LABORATORY SAFETY
Introduction to the principles of laboratory safety focused on recognizing, assessing and minimizing the risks of hazards, and preparing for emergencies. Topics include the planning of experiments and evaluations of their physical and chemical hazards, managing chemicals and waste, safe use of laboratory and personal protective equipment, emergency response to chemical spills and fires, hazard communication, safety ethics and government regulation. In addition to Chemistry, this course may be useful to Physics, Biology, Engineering Technology, Secondary Education, Health Sciences and other majors who may be working in a laboratory setting. Prerequisite: CHEM 3013 or permission of instructor. S

CHEM 3013 ORGANIC CHEMISTRY I
An introduction to organic chemistry. Emphasis is placed on structure and reaction mechanisms. The chemistry of hydrocarbons is developed in detail. Prerequisites: CHEM 1303 and CHEM 1352. F, S, SU

CHEM 3015 ORGANIC CHEMISTRY I
Same as 3013 except that theoretical principles are presented in more detail. The accompanying laboratory meets six hours each week and the instruction in modern instrumental techniques is more rigorous than in CHEM 3111. The course is designed for students majoring in chemistry and other science areas. Prerequisites: CHEM 1303 and CHEM 1352. F

CHEM 3111 ORGANIC CHEMISTRY I LABORATORY
Methods of separation of mixtures and determination of the physical and structural properties of compounds are emphasized. Spectroscopy and chromatography are introduced with some applications. Prerequisites: CHEM 1303 and CHEM 1352. Corequisite: CHEM 3013. F, S, SU

CHEM 3124 QUANTITATIVE ANALYSIS
An introductory course in analytical chemistry which includes sampling, separations (precipitation, solvent extraction, ion exchange, chromatography); and determinations (by titrimetry, gravimetry, colorimetry, and potentiometry techniques). Prerequisites: CHEM 1303 and CHEM 1352. F

CHEM 3211 INORGANIC CHEMISTRY LAB
The lab meets three hours each week and focuses on the synthesis (including inert atmosphere and vacuum line techniques), purification (including chromatography and crystallization techniques), and characterization (including magnetic susceptibility, conductivity, UV-Vis, IR, NMR, X-ray diffraction, and mass spectra) of inorganic ligands and complexes. Corequisite: CHEM 3233. Prerequisites: CHEM 3111 or CHEM 3015. FO

CHEM 3233 INORGANIC CHEMISTRY
A study of advanced principles of inorganic chemistry. Major topics include: 1) Structure and bonding theories; 2) Transition metal coordination chemistry, and 3) Organometallic chemistry. Prerequisite: CHEM 3013 & CHEM 3111 or CHEM 3015. FO

CHEM 3244 ENVIRONMENTAL CHEMISTRY
Lecture, lab, and field course designed to provide broad based general knowledge of environmental chemistry, biology, and geology, especially including chemistry dealing with origins, transport, reactions, effects, and fates of chemical species in the water, air, soil and living environments. Laboratory will include a field component incorporating sampling techniques and methods of analysis. Prerequisites: CHEM 4113 or CHEM 4115 or CHEM 2114 or by consent of instructor. SO

CHEM 3343 PHYSICAL CHEMISTRY I
A fundamental course in physical chemistry for students majoring in chemistry and related fields. Topics include gas laws, kinetic molecular theory, classical thermodynamics, solutions, kinetics, equilibrium, and electrochemistry and an introduction to statistical thermodynamics. Prerequisites: CHEM 1303, PHY 1044 or PHY 2145 (preferred), and MATH 2823 or concurrent or prior enrollment in MATH 2834, or permission of instructor. FE

CHEM 3901 SEMINAR IN CHEMISTRY I (CAPSTONE)
Course focus is on skills required for a successful professional career post graduation. Non-academic topics will include: selection and application to graduate programs, job search strategies, professional resume preparation and interview skills. Development of pertinent professional attitudes and professional and scientific ethics will be discussed. The second half of the course will cover methods of chemical literature
searching and how to summarize the primary research publications in preparation for Seminar in Chemistry II. Prerequisites: Junior/Senior standing or permission of chair. F

CHEM 4001-4 CHEMISTRY RESEARCH
Individual students may arrange for a variety of laboratory research studies. Credit one to four hours. D

CHEM 4011-4 SEMINAR IN CHEMISTRY (TOPIC)
Credit is assigned for the completion of directed reading programs, seminars and similar activities. Credit one to four semester hours. Prerequisite: Departmental approval. D

CHEM 4021 ORGANIC CHEMISTRY II LABORATORY
Preparation and identification of organic compounds are emphasized. Spectroscopic and chromatographic techniques are utilized. Prerequisites: CHEM 3013 and CHEM 3111 or CHEM 3015. Corequisite: CHEM 4113. F, S, SU

CHEM 4113 ORGANIC CHEMISTRY II
A continuation of CHEM 3013. Preparations, properties, and reactions of organic functional groups with emphasis on biomolecules. Prerequisites: CHEM 3013 and CHEM 3111. F, S, SU

CHEM 4115 ORGANIC CHEMISTRY II
A continuation of CHEM 3015. Preparation, properties, and reactions of organic functional groups. The laboratory meets six hours each week and emphasizes the preparation and identification of organic compounds. Prerequisite: CHEM 3015 or departmental approval. S

CHEM 4124 BIOCHEMISTRY
An introductory course involving the study of the physical and chemical properties of compounds associated with the chemistry of life processes and an introduction to metabolism, especially carbohydrate degradation and nucleic acid and protein biosyntheses. Prerequisite: Eight hours of organic chemistry or permission of instructor. F, S

CHEM 4223 POLYMER CHEMISTRY
The synthesis, testing and industrial application of intermediate and high molecular weight polymers. Includes three hours of laboratory per week. Prerequisites: CHEM 4113 and CHEM 4021 or CHEM 4115 and concurrent or prior enrollment in CHEM 4344. D

CHEM 4234 INSTRUMENTAL ANALYSIS
Theory and practice in the use of instrumental methods utilized in chemical analysis. Prerequisites: CHEM 3124, CHEM 4454, or departmental approval. SO

CHEM 4313 ADVANCED ORGANIC SYNTHESIS
This course is a study of advanced synthetic methodologies. Specifically, the application of modern organic reactions, associated mechanistic principles, and their application toward the design, execution, and evaluation towards the synthesis of complex molecules. Prerequisites: CHEM 4113 or CHEM 4115, or permission of instructor. D

CHEM 4353 MATERIALS CHEMISTRY
An introduction to the fundamental chemistry of materials. Includes study of the classification, structure, bonding, synthesis, analysis, processing, development, and utilization of metals, glass-ceramics, polymers, composites, and nanomaterials. Prerequisites: CHEM 4113 or CHEM 4115, or permission of instructor. D

CHEM 4254 INDUSTRIAL CHEMISTRY AND ENVIRONMENTAL REGULATIONS
Critical examination of chemical innovation and emerging technologies in chemical production, use, and disposal for the protection of worker safety, public health, and the environment, including pollution prevention and remediation strategies, emissions monitoring and regulatory compliance, waste treatment, and resource conservation and recovery. Prerequisites: CHEM 4113 or CHEM 4115 or CHEM 2114. SE

CHEM 4455 PHYSICAL CHEMISTRY II
A continuation of CHEM 3343. Topics include quantum mechanics and its role in chemistry and the theoretical and experimental aspects of atomic and molecular structure, chemical bonding, spectroscopy, and photochemistry. Includes 3 hours of lecture and 6 hours of laboratory instruction. Corequisite: CHEM 4455L. Prerequisite: CHEM 3124 and CHEM 3343 with a “C” or better and concurrent or prior enrollment in MATH 3834. SO

CHEM 4554 ADVANCED ORGANIC SPECTROSCOPY
In-depth study of instrumental techniques including nuclear magnetic resonance, infrared, ultraviolet/visible, and mass spectroscopy to identify or verify organic molecules of moderately complex structure. Efficient interpretation of structure is emphasized by establishing features such as overall carbon framework, presence and location of functional groups, regiochemistry of substituents, and stereochemistry of chiral centers. Prerequisites: CHEM 4115 and CHEM 4234 or departmental permission. D

CHEM 4673 ADVANCED METABOLISM
Study of metabolic reactions and biochemical processes of living organisms. An understanding of enzymes, utilization or energy, synthesis of compounds, interrelationships among various metabolic pathways, hormone function, and metabolic regulation is developed. Prerequisite: CHEM 4124. D

CHEM 4900 SEMINAR ATTENDANCE
A non-credit course required each semester for all chemistry majors. The course provides seminars, workshops and presentations by visiting and in-house faculty and staff, graduate school and industry contacts, and student presenters. F, S

CHEM 4901 SENIOR SEMINAR IN CHEMISTRY II (CAPSTONE)
Each student will be required to select, conduct a literature search, write a review paper, and present a seminar on a current chemistry topic of interest. Prerequisite: CHEM 3901. S

GEOL 1934 PHYSICAL GEOLOGY
Introduction to earth science; earth in the universe, seafloor spreading and continental drift, the geomagnetic field, earthquakes and landform development; laboratory study of minerals and rocks, topographic maps, stereo-photographs and landforms. S

PHY 1044 BASIC PHYSICS I
Lecture and laboratory study of mechanics, wave motion, and heat; non-calculus survey course for students in natural science and health sciences; the laboratory component will provide a forum for the student to perform experiments related to the lecture material. Prerequisite: MATH 1513. F

PHY 1054 BASIC PHYSICS II
Lecture and laboratory study of electricity and magnetism, optics, and modern physics; the laboratory component will provide a forum for the student to perform experiments relating to the lecture material. Prerequisites: PHY 1044 or consent of instructor and MATH 1513. S
PHY 1063 GENERAL PHYSICS
Lecture study of motion, thermodynamics, sound and hearing, optics and vision, electricity and magnetism, and radiation; one semester survey with emphasis on biological applications of physics. Prerequisite: MATH 1513 or MATH 1613 or MATH 2823. F, S, SU

PHY 1072 INTRODUCTORY ELECTRONICS
Lecture and laboratory study of simple DC, AC, and nonlinear circuits; emphasis on basic electronic components and instrumentation including meters, oscilloscopes, and function generators. D

PHY 2011 SEMINAR IN PHYSICS
Group study on specified topic in Physics for undergraduate students. Credit one to four semester hours.

PHY 2021 INTRODUCTION TO ENGINEERING PHYSICS
A survey of the fields of engineering, engineering ethics, essential skills including communication and spreadsheets, and the basic physics that forms the core of engineering including kinetics, dynamics, statics, heat, materials, and energy. F

PHY 2145 GENERAL PHYSICS I
Study of mechanics, thermodynamics and wave motion including: Statics, dynamics, fluids, elasticity, heat, first and second laws of thermodynamics, Harmonic motion and sound; includes one laboratory per week. The laboratory component will provide “hands-on” experience of physical principles addressed during the lecture part of this course. Students will become familiar with laboratory equipment, procedures, and the scientific method. For engineering, physics, chemistry and mathematics students. Corequisite: MATH 1834. S

PHY 2155 GENERAL PHYSICS II
Study of electrostatics, electric circuits, magnetism, electromagnetic fields and optics; includes one laboratory per week. The laboratory component of the course consists of measurements, observation and comparison of measured values to the accepted theoretical or measured values. Prerequisites: PHY 2145 and concurrent enrollment in MATH 2834. F

PHY 2203 RIGID BODY MECHANICS
Study of statics, force systems, equilibrium, structures, distributed forces, friction, kinematics. Prerequisites: PHY 2145 and concurrent enrollment in MATH 2834. F

PHY 2213 STRENGTH OF MATERIALS
Study of mechanical properties of stressed materials; elastic and plastic deformations of beams, columns, and shafts; axial, transverse and torsion loadings; and temperature effects on materials. Prerequisites: PHY 2145 or PHY 2203 or consent of instructor. S

PHY 3013 MATERIALS SCIENCE
An introductory, interdisciplinary course about the fundamental properties of solid materials. Topics include: atomic and crystalline structure, diffusivity, imperfections, mechanical testing, deformation, hardening techniques; electrical magnetic, optical, thermal, corrosive and wear properties. Materials discussed include ferrous and nonferrous alloys, ceramics, polymers, and composites. Prerequisites: PHY 1054, PHY 1064, PHY 2155, and CHEM 1203, or consent of the instructor. D

PHY 3112 EXPERIMENTAL TECHNIQUES
Study of the techniques and devices used in experimental physics including lasers, vacuum systems, temperature measurements, photographic emulsions, spectrometers and particle detectors; procedures of data analysis. Prerequisites: PHY 2155 and MATH 2834. FO

PHY 3311 MODERN PHYSICS LABORATORY
The topics of spatial relativity, atomic and molecular physics, solid state physics, statistical physics, and nuclear physics are introduced along with engineering applications. Prerequisite: PHY 2155. Corequisite: MATH 3834. S

PHY 3403 MODERN PHYSICS FOR ENGINEERS
The topics of spatial relativity, atomic and molecular physics, solid state physics, statistical physics, and nuclear physics are introduced along with engineering applications. Prerequisite: PHY 2155. Corequisite: MATH 3834. S

PHY 3413 ANALOG ELECTRONICS
Lecture and laboratory study of basic network and semiconductor theory; Kirchhoff, Thvenin, and Norton Theorems, characteristics of solid-state components and their application in power supplies, amplifiers, oscillators, and operational amplifier. Prerequisites: PHY 1072, PHY 2155, and MATH 3834 or instructor approval. D

PHY 3424 OPTICS
Lecture and laboratory study of geometrical and physical optics, including lenses, mirrors, interference, polarization, diffraction, dispersion and quantum optics. Prerequisites: PHY 2155 and MATH 3834. Corequisite: 3424L.. SO

PHY 3501 PHYSICS SEMINAR (TOPIC)
Course for students to gain experience in reporting a scientific and technical topic to peers; an oral and a written report on a subject of current interest in physics is required. Prerequisite: 18 hours of physics or consent of instructor. SO

PHY 3544 DIGITAL ELECTRONICS
Lecture and laboratory study of logic gates and circuits; microprocessor programming and interfacing. Prerequisite: PHY 1054 or PHY 2155. D

PHY 3563 THERMODYNAMICS
Study of thermal physics including the zeroth, first and second laws of thermodynamics; enthalpy, entropy, kinetic theory, Maxwell-Boltzmann distribution, specific heats, simple transport phenomena, and power cycle applications. Prerequisites: PHY 2155 and MATH 3834. SO

PHY 3573 HEAT TRANSFER
Study of conduction, convection and radiation heat transfer; properties of materials related to heat transfer; control volume analysis; laminar and turbulent fluid flow; Newton’s law of cooling; boiling and cooling; and blackbody radiation. Prerequisites: PHY 2155 and MATH 3834. D

PHY 3603 MECHANICS I
Study of dynamics; conservative motion, central force problems, gravitation, harmonic oscillators, systems of particles, small vibrations, rigid-body dynamics, accelerated reference frames and Lagrange equations. Prerequisites: PHY 2155 and concurrent enrollment in MATH 4213. SE

PHY 3633 FLUID MECHANICS
Study of fluid properties, compressible and incompressible fluids and aerodynamics, fluid statics and dynamics including viscous effects, dimensional analysis, and fluid measurements. Prerequisites: PHY 2155 and concurrent enrollment in MATH 4213. D

PHY 4001-4 PHYSICS RESEARCH (TOPIC)
Individual research under direction of an individual faculty member on a topic of mutual interest; one to four semester hours credit; topic, credit, and arrangements to be decided prior to enrollment. Prerequisites: Consent of instructor and chair of department. D
PHY 4011-4 PHYSICS SEMINAR (TOPIC)
Formal study of a topic of current importance in physics or engineering which is not normally included in other courses; one to four semester hours credit. Prerequisites: Consent of instructor and chair of department. D

PHY 4644 ELECTRICITY & MAGNETISM I
Lecture and laboratory study of electrostatics including Coulomb and Gauss laws, dielectric materials, electrostatic energy, steady currents and magnetic fields, and electromagnetic induction. Prerequisites: PHY 2155 and MATH 4213. FE

PHY 4723 QUANTUM MECHANICS
An advanced course in modern physics including applications of the Schroedinger equation, spin and magnetic interactions, complex atoms, molecules, and quantum statistical physics and its applications. Prerequisite: PHY 3403. Corequisite: MATH 4213 or consent of the instructor. FE

SCI 1501 CONCEPTS OF PHYSICAL SCIENCE LABORATORY
The lab meets two hours each week and focuses on the importance of the laboratory experiment to the scientific method. Inquiry-oriented laboratory investigations of selected topics in the disciplines of astronomy, chemistry, geology and physics introduced in SCI 1513 will be undertaken. Prerequisites: Completion of or concurrent enrollment in SCI 1513. S

SCI 1513 CONCEPTS OF PHYSICAL SCIENCE
A course designed to develop an awareness of the interrelationships between science and society. Readings and discussions on the "tactics and strategy" of science, with emphasis on the physical sciences. F, S

Science for Elementary Teachers

The following three courses (SCI 3114, SCI 3214, and SCI 3314) are designed to prepare elementary school teachers and CANNOT satisfy any program requirements other than Bachelors in Elementary Education, Bachelors in Special Education, or Masters in Elementary Education.

SCI 3114 BIOLOGICAL SCIENCE FOR ELEMENTARY TEACHERS
An inquiry-oriented course which presents selected biological concepts, including ecological relationships, that are relevant to the elementary school science curriculum. This course includes a laboratory. Prerequisite: SCI 3214. F, S

SCI 3214 PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS
A general physical science course designed for the prospective elementary teacher. The content covers major concepts from the traditional disciplines of physics, chemistry, geology, and astronomy. A study of energy and environmental issues is also included. This course includes a laboratory. F, S

SCI 3314 GEOLOGICAL SCIENCE FOR ELEMENTARY TEACHERS
A general Earth science course covering major concepts of geology, environmental issues, and the relationship between science and society. This course is intended for elementary teachers. Inquiry-oriented laboratory investigations are included. This course includes a laboratory. Prerequisites: SCI 3114 and SCI 3214. F, S

SCI 4001-4 INDIVIDUAL STUDY IN SCIENCE
Specified topic in science. One to four credit hours. D

SCI 4011-4 SCIENCE SEMINAR (TOPIC)
Seminars of individual or group study are based on selected topics in science education. Credit one to four semester hours. Prerequisite: Senior college standing. D

SCI 4843 TEACHER'S COURSE IN SCIENCE
Methods, problems, and resources in teaching science in the secondary schools. Problems and topics in the middle school and high school are presented. Required for teacher certification in science areas. Prerequisite: Admission to Teacher Education Program. FO

ENGL 0123 FUNDAMENTALS OF ENGLISH
A course designed to provide remedial students an opportunity to increase their writing skills. Emphasis is placed on sentence construction, paragraph organization, sound thesis statements, and adequate support for them. Zero credit, this course is not counted as a part of a major or minor and it does not count towards graduation. F, S, SU

ENGL 1113 ENGLISH COMPOSITION I
Training for effective communicative skills with emphasis on writing as required for successful college study. F, S, SU

ENGL 1213 ENGLISH COMPOSITION II
Training for skills in communication, as in ENGL 1113, but a higher level. Research and argument emphasized. Prerequisite: ENGL 1113. F, S, SU

ENGL 2000 ENGLISH PROFICIENCY PROGRAM
A writing examination required of all students who earn a “D” in ENGL 1213 to verify their writing proficiency. Prerequisites: ENGL 1113 and ENGL 1213. F, S, SU

ENGL 3013 WRITING: THEORY AND PRACTICE
This course is an entry point for the major in English Education; it must be completed before continuing with further study in the major. A course designed to introduce the history and background of composition as an aspect of English studies. The course provides a basic background for using composition theory in the teaching of writing, but is not limited to pedagogical concerns. The course is focused on developing an understanding of the writing process and practicing writing skills using techniques derived from current composition theory. Prerequisite: ENGL 1213. S

ENGL 3113 CONTEMPORARY FICTION
This course is a study of short American fiction, beginning with the 1950’s and progressing to the present. Students will read selected short stories, with particular focus on characterization, structure, theme, and language. Prerequisite: ENGL 1213. FE

ENGL 3123 CONTEMPORARY POETRY
This course is designed to lead students to a comfortable acquaintance with American poetry from the 1950’s to poetry currently appearing in magazines. Formal poetry, free verse, and prose poetry will be studied. Prerequisite: ENGL 1213. SO

ENGL 3473 CREATIVE WRITING OF FICTION I
This workshop is a training ground for short story writers. The student’s work will be discussed critically. Exercises will be assigned. Full participation, both as writer and critic, is expected. S
ENGL 3483 BEGINNING CREATIVE WRITING OF POETRY I
This workshop is a training ground for poets. The student’s work will be discussed critically. Exercises will be assigned. Full participation, both as writer and critic, is expected. **Prerequisite:** ENGL 1213. F

ENGL 3603 ENGLISH GRAMMAR
A study of traditional, descriptive English grammar, including structure, terms and some basics of usage. Designed for students interested in developing a better command of the English language. **Prerequisite:** ENGL 1213. S

ENGL 3653 WRITING IN THE DISCIPLINES
“Good” writing is a slippery concept, as many students realize when they try to transfer what they learned in one class to writing assignments in another. Different disciplines value certain forms of writing over others because those forms help the members of the discipline communicate ideas more effectively. In this class, students learn to analyze the discourse of various disciplines and discern how the needs of the discourse communities shape their writing. **Prerequisites:** ENGL 1113 and ENGL 1213. S

ENGL 3663 CREATIVE NONFICTION I
In this writing intensive workshop course, students will produce their own works of nonfiction as well as read and analyze the nonfiction of professional writers. Creative nonfiction includes the genres of personal essay, memoir and autobiography, travel writing, nature and science writing, and literary journalism. The course will address one or more of these genres. Students will utilize reportage, reflection, research, and techniques commonly used in fiction to turn their experiences and observations into stories and essays that are both truthful and artful. **Prerequisite:** ENGL 1113 and ENGL 1213. FO

ENGL 4001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)
Individual study of specified topic for undergraduate students. Credit one to four semester hours. **Prerequisite:** ENGL 1213. D

ENGL 4011-4 SEMINAR IN ENGLISH (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. **Prerequisite:** ENGL 1213. D

ENGL 4423 INTRODUCTION TO LINGUISTICS
An introductory overview of linguistics with particular attention to phonology, morphology, syntax, semantics, language acquisition, and the history of the English language. Required for majors in the English Education degree. **Prerequisite:** ENGL 1213. F

ENGL 4453 ADVANCED COMPOSITION
This advanced writing course presents a variety of expository and persuasive techniques beyond the basic level of the 1113 and 1213 English Composition courses. Focusing on the expository essay, with an emphasis on rhetorical aspects of writing, critical thinking, the writing process, research, and argumentation, the course encourages students to concentrate on development of their own styles and increase the precision of their written communication skills. Further study and appreciation of the argumentative/persuasive essay’s structure in implemented by reading and writing. Topics may vary. **Prerequisite:** ENGL 1213. FE

ENGL 4473 CREATIVE WRITING OF POETRY II
This workshop is for poets seeking to create work of publishable quality. Publishing format is studied. Conferences with the instructor will be utilized. Group criticism will continue with participation by all members of the workshop. **Prerequisite:** ENGL 1213. SE

ENGL 4483 CREATIVE WRITING OF FICTION II
This course is an introduction to the process of writing short fiction with emphasis on the techniques of discovery, invention, organization, and style. The student will gain a better understanding of implementation of plot, character, setting, theme, and tone through examination of both model fiction from contemporary writers and the student’s own writing. **Prerequisite:** ENGL 1213. SE

ENGL 4663 CREATIVE NONFICTION II
In this writing intensive workshop course, students will produce their own works of nonfiction as well as read and analyze the nonfiction of professional writers. Creative nonfiction includes the genres of personal essay, memoir and autobiography, travel writing, nature and science writing and literary journalism. The course will address one of more of these genres. Students will utilize reportage, reflection, research, and techniques commonly used in fiction to turn their experiences and observations into stories and essay that are both truthful and artful. **Prerequisite:** ENGL 1213. SE

ENGL 4675 TEACHING OF HIGH SCHOOL ENGLISH
Problems and methods for teachers in both junior and senior high school English classes. The course will emphasize teaching of language, literature, and composition, with emphasis on current trends as shown in recent textbooks, journal articles, experimental studies, and curriculum guides. **Prerequisite:** Admission to Teacher Education Program. F

ENGL 4773 EDITING
This course will introduce the principles of this media skill by covering the major elements of editing, among which are structural and line editing, proofreading, using reference books, understanding contracts and copyright, understanding production and design, and understanding the writer/editor relationship. **Prerequisite:** ENGL 1113 and ENGL 1213. SO

ENGL 4882 ENGLISH SENIOR CAPSTONE
This course is intended as a culminating experience for senior English majors. It will require seniors to integrate principles, theories, and methods learned in courses required throughout the major. Students creatively analyze, synthesize, and evaluate learned knowledge in projects and communicate the results of the projects effectively at a professional entry level by a method appropriate to the discipline. F, S

**Foreign Language**
Courses in foreign languages provide students the ability to actively and productively participate in today’s interdependent world. Better understanding and appreciation of other languages and cultures allow the student to understand better his/her native language and culture. Knowledge and ability in a foreign language enhance any area of the College of Arts and Sciences and provide essential cultural and linguistic background for students in teacher education.

More than sufficient course work is offered for students who choose Spanish as a second teaching field or as a minor to enhance any major.

**American Sign Language**

ASL 2163 AMERICAN SIGN LANGUAGE I
This course is an introduction to American Sign Language, the language used by deaf people in the United States and most of Canada. This course will also provide introductory information on deaf culture, since a language cannot be separated from its culture. S
Italian

ITAL 1004 ELEMENTARY ITALIAN I
A first semester elementary language course for students who have never studied Italian or who have had very little exposure to the language. Students will acquire elementary communicative skills through a systematic introduction to the basic grammatical patterns and vocabulary of the Italian language. A cultural component ties into the grammatical content. Class work will emphasize development of the oral/aural skills, speaking and listening. Tape recordings will also be available for students to practice listening and speaking.

ITAL 1104 ELEMENTARY ITALIAN II
This is a continuation of ITAL 1004. The goal of this course is to improve proficiency in Italian in the four areas of communication: reading, writing, listening, and speaking. Grammar structures are learned not as an end, but as a means of acquiring proficiency. Real life learning experiences are fostered through the use of grounding of language acquisition through classes based on Italian culture and basic daily topics. Prerequisite: ITAL 1004.

Latin

LATIN 1054 ELEMENTARY LATIN I
Elementary course in Latin. Fundamentals of Latin with emphasis on vocabulary and structure of the language. F

LATIN 1154 ELEMENTARY LATIN II
Continuation of Latin I. Subjunctive mood, active and passive of all verbs, conditional clauses, fourth and fifth declensions are covered. Prerequisite: LATIN 1054.

Spanish

SPAN 1054 ELEMENTARY SPANISH I
Fundamentals of grammar taught in order to acquire facility in all four language skills: reading, writing, speaking, and understanding spoken Spanish; limited introduction to Hispanic culture. F, S, SU

SPAN 1154 ELEMENTARY SPANISH II
This course is a continuation of SPAN 1054 and completes the basic grammar of Spanish; consideration of Hispanic cultural background. Prerequisite: SPAN 1054 or equivalent high school Spanish. F, S, SU

SPAN 2053 INTERMEDIATE SPANISH I
Review of Spanish grammar to allow a more thorough understanding of fundamentals of Spanish with reading, cultural background, conversation, and composition. Prerequisite: SPAN 1054, SPAN 1154, or permission. F

SPAN 2153 INTERMEDIATE SPANISH II
Discussions in Spanish based on poetry, short prose selections, literary and current events. Informal grammar presentations as required. Prerequisite: SPAN 2053 or equivalent. S

SPAN 3013 SPANISH FOR LAW ENFORCEMENT
Course designed to develop language skills with a focus on listening and speaking to provide vocabulary and conversational practice in realistic law-enforcement and/or emergency situations with emphasis on real-life vocabulary, Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text. S

SPAN 3023 SPANISH FOR HEALTHCARE PROFESSIONALS
Course designed to develop language skills with a focus on listening and speaking to provide vocabulary and conversational practice in realistic healthcare, pharmacy and/or emergency situations with emphasis on real-life vocabulary, Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text. S

SPAN 3553 HISPANIC LIFE AND CULTURE
Readings in Spanish that demonstrate origins, development, and characteristics of Hispanic life and culture; reading speed and comprehension increased; conducted when possible in Spanish. Prerequisite: SPAN 1154. F

SPAN 3653 INTERMEDIATE SPANISH CONVERSATION
Course designed to increase vocabulary and conversational ability in realistic situations; planned and spontaneous activities using newspapers and magazines to augment course text; no English spoken; may take concurrently with SPAN 2153. Prerequisite: SPAN 2053. FE

SPAN 3753 READINGS IN SPANISH
Course designed to increase reading and overall proficiency in Spanish through study of selected literary genres from Spanish America and Spain. Various interactive methods used. Prerequisites: SPAN 2053 or equivalent. S

SPAN 3853 INTERMEDIATE SPANISH COMPOSITION AND GRAMMAR
Intensive writing course to increase Spanish writing proficiency. Review of grammatical forms that typically cause problems for intermediate learners. Interactive approach through a variety of methods. Prerequisite: SPAN 2053 or equivalent. S

SPAN 4023 TEACHERS COURSE IN WORLD LANGUAGES
Course designed to give the basic principles and techniques for effective instruction in world languages. Prerequisite: SPAN 1054 or equivalent. SO

Literature

LIT 2001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)
Individual study of specified topic for undergraduate students. Credit one to four semester hours. D

LIT 2011-4 SEMINAR IN LITERATURE (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. D

LIT 2333 INTRODUCTION TO FILM
A study of films as entertainment, cultural force, and art form. This course consists of viewing, analyzing, and discussing numerous full-length commercial films. F, S

LIT 2413 INTRODUCTION TO LITERATURE
The study of short stories, poetry, and drama. F, S, SU

LIT 2833 SCIENCE FICTION
Reading and discussion of short stories and novels by such writers as Thomas More, H.G. Wells, Tolkien, Bradbury, Asimov, and Vonnegut. D

LIT 3023 LITERATURE: THEORY AND PRACTICE
This course is an entry point for the major in English Education; it must be completed before continuing with further study in the major. The course examines the purposes, origin, and methods of the discipline. Students will study literary examples from the five genres (fiction, poetry, drama, essay, and film) using a variety of critical and theoretical approaches. Additionally, students will learn to write both interpretive essays and research papers and will begin a writing portfolio. Lecture, discussion, peer review, practice in oral delivery of literature. Prerequisite: ENGL 1213 and LIT 2413. F
LIT 3033 WORLD MYTHOLOGY
In this course students will study the myths that human beings have used throughout history to explain their world, including the myths of Greece and Rome, the American Indians, The Norse, the Egyptians, the Mesopotamian, and the Eastern world. Students study the common features of these stories and come to understand how these classic stories reflect and affect our own history, psychology, literature, and religion. Prerequisite: ENGL 1213. FO

LIT 3113 EARLY WORLD LITERATURE
A survey of world literature from ancient literature through the Renaissance. Prerequisite: ENGL 1213 and LIT 2413. FE

LIT 3223 ROMANTIC MOVEMENT
History of the Romantic Movement; prose and poetry of the period with particular attention to the works of Wordsworth, Coleridge, Byron, Shelley, and Keats. D

LIT 3323 MODERN VOICES IN AMERICAN LITERATURE
A survey of American literature from the Civil War to the present. Prerequisite: ENGL 1213. S

LIT 3333 SHAKESPEARE IN CONTEXT
Students will study Shakespeare’s plays in the context of his times and read representative works by Shakespeare and by his contemporaries. Two theoretical approaches underpin the course design: new historicism and formalism. Drama and cultural history share importance in understanding the world that produced an unparalleled theatrical achievement. Lecture; discussion; interpretive papers; informal writing; research. Prerequisite: ENGL 1213 and LIT 2413. SO

LIT 3343 WORLD FOLK LITERATURE
Students in this class will gain a greater appreciation and understanding of society’s self-definition through folklore phenomena such as orally or imitatively transmitted literature (proverbs, tall tales, urban legends, American Indian myths, cowboy poetry, fairy tales, jokes, folk songs), material culture (prison art, whimsies, quilts) and customs (superstitions). They will explore the characteristics and relationships between literary and folk genres, themes and motifs and study the interplay of folkloric thinking and formal literary expression in texts of all kinds. Prerequisite: ENGL 1213 and LIT 2413. SO

LIT 3443 MIDDLE ENGLISH/CHAUCER
A study of the language and the literature of thirteenth and fourteenth century England with emphasis on Chaucer. D

LIT 3453 AGE OF REASON
A study of British works and authors of approximately the first half of the eighteenth century. Attention is also given to the social, political, and philosophical influences of the period. D

LIT 3463 19TH CENTURY AMERICAN REALISM
A course dealing with the broad outlines of the Age of Realism in American literature with special emphasis on the contributions of the three great realists: Mark Twain, William Dean Howells, and Henry James. D

LIT 3493 MODERN DRAMA
Reading and study of American, British, and European plays since Ibsen, with emphasis on the social and political backgrounds, dramatic structure, and literary trends from nationalism to absurdism. D

LIT 3513 LITERATURE OF THE AMERICAN WEST
Selected readings in novels, short stories, poetry, criticism and other works by writers of the Trans-Mississippi frontier and far West; emphasis on historical and cultural interpretations since 1890. D

LIT 3523 VICTORIAN POETRY
A study of the major poets of the Victorian era and of the conditions which shaped their work. Emphasis upon Tennyson, Browning, Arnold, Hardy, and Hopkins. D

LIT 3533 BRITISH RENAISSANCE DRAMA
A study of British theatre in the late 16th and early 17th centuries. Emphasis is on Kyd, Marlow, Jonson, Shakespeare, and the Jacobean-Jamesian drama. D

LIT 3543 LITERATURE OF THE SOUTH
Study of selected modern-day Southern writers, with emphasis on the economic, sociological, and political backgrounds reflected in their works. D

LIT 3613 AMERICAN ROMANTIC PERIOD
Readings in the American Romantic period, emphasizing selected works by Whitman, Thoreau, Hawthorne, and Melville. D

LIT 4001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)
Individual study of specified topic for undergraduate students. Credit one to four semester hours.

LIT 4011-4 SEMINAR IN LITERATURE (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. D

LIT 4113 MODERN WORLD LITERATURE
A survey of world literature from neoclassicism to the present. Prerequisite: ENGL 1213 and LIT 2413. FO

LIT 4123 BRITISH LITERATURE 1795-1950
A survey of English literature from the Victorian period to the present. Prerequisite: ENGL 1213. S

LIT 4233 YOUNG ADULT LITERATURE
This course centers on traditional and innovative young adult literature in all genres, including film, graphic novels, and online literature. It prepares English Education students to design curriculum, deal with censorship issues and age appropriateness in making literature selections, and investigate the way the genre both shapes and reflects adolescent cultural experiences and challenges. Prerequisites: ENGL 1213 and LIT 2413. SE

LIT 4473 MODERN BRITISH AND AMERICAN POETRY
Poetry of the twentieth century. D

LIT 4533 ISSUES IN AMERICAN LITERATURE
In this course the student will apply close reading and critical analysis skills to American literature from the literature pre-dating the Civil War, becoming familiar with key trends, movements, and figures, for example, Puritan life writing, Transcendentalism, and Ralph Waldo Emerson. Historical/cultural contexts for the works are stressed. Prerequisite: ENGL 1213. F

LIT 4593 DIVERSITY IN AMERICAN LITERATURE
This course in contemporary American diversity literature enables the student to analyze conflicts and tensions when cultures and ethnicities collide, while also discovering the richness of difference. It will consider works by representative American authors of Hispanic/Chicano, Black,
Native American, Asian, Jewish, and other backgrounds. **Prerequisite:** ENGL 1213. FE

**LIT 4623 17TH CENTURY ENGLISH POETRY**  
Selected readings from the works of Jonson, Donne, and their followers, providing a background for the study of the poetry of Milton. D

**LIT 4763 BRITISH LITERARY HERITAGE TO 1800**  
In this course the student will become familiar with the major genres, authors and works and with the historical context of British literature from its beginning to 1800. The course explores the developments in language, literature, and society. Writers studied include the Beowulf poet, Chaucer, Spencer, Marie de France, Shakespeare, Milton, Pope, and Johnson. **Prerequisite:** ENGL 1213. F

**LIT 4883 WOMEN AND LITERATURE**  
This course will acquaint student with literature by women from the medieval to the present time and from all over the world, exploring issues these writers raise concerning the lives and art of women. The course will also study images of women in literary works by both men and women. **Prerequisite:** ENGL 1213. SE

**LIT 4993 THE NOVEL**  
In this course students will read and study novels of a particular period or type. Focus will vary from semester to semester and range in period and nationality (for example, 18th Century British Novel, History of the Novel, Victorian Novel, or focus on a particular set of writers). **Prerequisite:** ENGL 1213. SO

**Humanities**

**HUM 1103 INTRODUCTION TO HUMANITIES**  
An interdisciplinary, multi-perspective assessment of cultural, political, philosophical, and aesthetic factors critical to the formulation of values and the historical development of the individual and of society. Examines human creativity broadly, including music, painting, literature, theater, architecture, sculpture, and modern innovations such as photography and film. F, S, SU

**Philosophy**

**PHILO 1453 INTRODUCTION TO PHILOSOPHY**  
A survey of major philosophers and their ideas, from ancient Greece to Rome, to Medieval Christian philosophers. Descartes and the debate over Rationalism and Empiricism, Kant and his followers, Marx, Utilitarianism, and the Existentialism of both Kierkegaard and Sartre. Attention to metaphysics, ontology, ethics, epistemology, axiology, and some logic. Primary emphasis on the Western tradition. F, S, SU

**DEPARTMENT OF MATHEMATICS**

**MATH 0144 FOUNDATIONS OF MATHEMATICAL REASONING**  
A course designed to provide students with the skills and conceptual understanding to succeed in a college level statistics or quantitative literacy course. Topics include reading and interpreting quantitative information from a variety of real-world sources, and communicating quantitative results both in writing and orally using appropriate language, symbolism, data, and graphs. Successful completion removes math deficiency for enrolling in MATH 1143 OR MATH 1153.

**MATH 0162 COLLEGE ALGEBRA SUPPORT**  
A developmental course in mathematics, including rational expressions and equations, radical expressions and graphs, equations and graphs of lines, factoring, quadratic equations, and systems of equations. The course is designed to supplement the MATH 1513 curriculum in a manner that promotes student success there. Topics in this course will be presented just prior to their presentation in MATH 1513. This course can only be taken as a co-requisite with MATH 1513 and is for students who have cleared their mathematics deficiency and wish to take the prerequisite for MATH 1513 concurrently. **COREQUISITE:** MATH 1513.

**MATH 1044 FOUNDATIONS OF MATHEMATICAL REASONING**  
A course designed to provide students with the skills and conceptual understanding to succeed in a college level statistics or quantitative literacy course. Topics include reading and interpreting quantitative information from a variety of real-world sources, and communicating quantitative results both in writing and orally using appropriate language, symbolism, data, and graphs. Successful completion removes math deficiency for enrolling in MATH 1143 or MATH 1153.

**MATH 1143 MATH CONCEPTS**  
An introduction to mathematical ideas and their applications. Topics are chosen from set theory, logic, probability and statistics, number theory, financial mathematics and graph theory. F, S, SU

**MATH 1153 MATH APPLICATIONS**  
A survey of applied mathematics. Topics are chosen from financial mathematics, game theory, probability, statistics, counting principles and combinatorics, optimization and linear programming, units and dimensional analysis. F, S

**MATH 1513 COLLEGE ALGEBRA**  
A fundamental course including solutions of equations and inequalities, systems of equations, algebra of functions, polynomial functions, rational functions, exponential and logarithmic functions, matrices, and conic sections. **Prerequisite:** ACT Math subscore of 19 or higher, MATH 0133, departmental approval, or placement by examination. F, S, SU

**MATH 1613 COLLEGE TRIGONOMETRY**  
The basic course stressing trigonometric functions, periodicity, identities, and solution of triangles. **Prerequisite:** MATH 1513, departmental approval, or placement by examination. F, S

**MATH 1834 CALCULUS I**  
The first of a three-course sequence in analytical geometry and calculus. Limits, Continuity, differentiation, integration, applications. **Prerequisites:** MATH 1513 and MATH 1613 or equivalent, or placement by examination. F, S

**MATH 2001-3 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)**
Independent study of a specific topic in mathematics for undergraduate students. Credit one to three semester hours. D

MATH 2823 APPLIED CALCULUS
A survey of calculus and its applications to business, life, and social sciences. Limits, beginning techniques of differentiation and integration, exponential and logarithmic functions, maxima, minima and partial differentiation. Prerequisite: MATH 1513. F, S

MATH 2834 CALCULUS II
A continuation of Calculus I. Analytical Geometry and Calculus. Applications and techniques of integration, sequences, and series, conics, parametric equations, polar coordinates, and vectors. Prerequisite: MATH 1834. F, S

MATH 3113 FOUNDATIONS IN MATHEMATICS
An introduction to basic concepts upon which mathematics is founded. Logic, set theory, proof-writing techniques, equivalence relations, mappings. Prerequisite: MATH 2834 or departmental approval. F

MATH 3413 STATISTICAL METHODS
Beginning techniques for students with modest mathematical background. Emphasis on applications to the biological and physical sciences, business, and education. Prerequisite: MATH 1513. F

MATH 3433 STATISTICS I
An introductory probability and statistics course. The binomial, hypergeometric, Poisson, normal, t-, and Chi-square distributions are studied. Other topics include hypothesis testing, linear regression, and analysis of variance. Some work with the statistical software packages. Applications are emphasized. Prerequisite: MATH 1513. S

MATH 3453 MATHEMATICAL STATISTICS
Classical probability theory, discrete and continuous random variables and their probability distributions, properties of expectation, moment generating functions, sampling distributions and the central limit theorem are some of the topics. Prerequisite: MATH 2834. FO

MATH 3473 INTRODUCTION TO PROBABILITY
Basic concepts of discrete probability are discussed, such as counting techniques, independence, conditional probability, Bayes’ Rule, random variables, random walks, and Markov chains. Prerequisite: MATH 2834. SO

MATH 3533 TECHNOLOGY AND PROGRAMMING IN MATHEMATICS
This course will be an introduction to computers and calculators for students of mathematics. Topics will be selected from: uses of the internet for the study of mathematics, graphing calculators, computer software, and programming for solving mathematical problems. Prerequisite: MATH 1834. F

MATH 3553 NUMERICAL ANALYSIS
Derivation, evaluation, and application of numerical methods of applied mathematics. Computer programming solutions to roots of equations, difference and differential equations, numerical integration, and linear algebra problems. Prerequisite: MATH 2834 and any scientific programming language. D

MATH 3653 LINEAR ALGEBRA
An introductory course in vector spaces, matrices, determinants, characteristic roots, and applications. Prerequisite: MATH 2834 or departmental approval. S

MATH 3673 ELEMENTARY NUMBER THEORY
A study including primes and composites, number theoretic functions, Diophantine equations, congruence classes, and mathematical induction. Prerequisite: MATH 2834 or departmental approval. SE

MATH 3713 COLLEGE GEOMETRY
An axiomatic development of the essentials of Euclidean geometry and an introduction to non-Euclidean geometry. Content includes the foundations of Euclidean geometry (points, lines, angles, triangles, quadrilaterals, circles), parallelism in Euclidean geometry, transformations and isometries, and parallelism in non-Euclidean geometry (with the focus on hyperbolic geometry). Prerequisite: MATH 2834 or departmental approval. S

MATH 3834 CALCULUS III
Continuation of Calculus II. Vector-valued functions, partial differentiation, multiple integration, line integrals, surface integrals. Green’s Theorem, the Divergence Theorem, and Stokes’ Theorem. Prerequisite: MATH 2834 or equivalent. F, S

MATH 4001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)
Independent study of specific topic in mathematics for undergraduate students. Credit one to four semester hours. D

MATH 4011-4 SEMINAR IN MATHEMATICS (TOPIC)
Group study of specified topic in mathematics for undergraduate students. Credit one to four semester hours. D

MATH 4013 SEMINAR IN MATHEMATICS
The following courses are generally offered under this course number:

Analytic Geometry
Emphasizes the essential elements of analytic geometry with special attention to those topics that are needed in a college level calculus sequence. Content includes polynomial, rational, and transcendental functions. Polar and parametric equations, space coordinates and surfaces, lines and planes in space, applications to business, social and physical sciences, and curve fitting. Prerequisite: MATH 2834. D

Linear Algebra for Secondary Teachers
An introductory course on matrix algebra with applications to solutions of systems of linear equations, linear programming, vector spaces, determinants, linear transformations and applications. Prerequisite: MATH 2834. D

Modern Algebra for Secondary Teachers
Fundamental concepts of sets, mappings, binary operations, mathematical induction, divisibility and congruence mod n. Basic algebraic structures: groups, subgroups, cyclic groups, normal subgroups, homomorphism, and isomorphism. Introduction to rings, integral domains, and fields. Supportive problem sets and applications of special interest to teachers. Prerequisite: MATH 3834. D

Survey of Geometry
Euclid’s Postulates with emphasis on Euclid’s parallel postulate. Historical development of non-Euclidean geometry, with emphasis on the work of Saccheri, Gauss, and Lobachevsky. Circular inversion and orthogonal circles. The Beltrami-Poincare’ half-plane and Poincare’ disk models of hyperbolic geometry. The spherical model of elliptic geometry. Prerequisite: MATH 1834. D

MATH 4101 MATHEMATICS CAPSTONE COURSE
The capstone course is a one credit hour course for Mathematics Education and Mathematics seniors. It is modular in structure, with each
module bringing together several different mathematics subject areas in a more advanced and interconnected context. To some extent, it will be preparatory for pre-professional exams. **Prerequisite:** Senior Standing or departmental approval. F

**MATH 4133 INTRO TO MATHEMATICAL LOGIC**
A basic course in mathematical thought, simple and compound sentences, truth tables, deductive logic, mathematical systems, quantification, application of logic to puzzles and games. **Prerequisite:** MATH 3834. D

**MATH 4153 HISTORY OF MATHEMATICS**
A survey course on the historical development of mathematics, including a look at famous problems and their development over time. **SE**

**MATH 4213 DIFFERENTIAL EQUATIONS I**
Solutions of ordinary differential equations with applications. **Prerequisite:** MATH 3834 or departmental approval. S

**MATH 4223 DIFFERENTIAL EQUATIONS II**
A continuation of MATH 4213. Advanced ordinary differential equations methods and an introduction to partial differential equations including Fourier series, Laplace’s equation, heat and wave equations. **Prerequisite:** MATH 4213. D

**MATH 4233 VECTOR ANALYSIS**
A comprehensive course in theory and applications of vector analysis with an introduction to vector spaces. **Prerequisite:** MATH 3834. D

**MATH 4653 MODERN ALGEBRA**
An introduction to group, ring, and field theory, with an emphasis on group theory; permutation groups, factor groups and homomorphism theorems. Supportive problem sets and applications. **Prerequisite:** MATH 3834. F

**MATH 4753 INTRODUCTION TO POINT SET TOPOLOGY**
Elements of set theory, the real number system, mappings, metric spaces, and general topological spaces. **Prerequisites:** MATH 3834 and consent of instructor. D

**MATH 4853 ADVANCED CALCULUS**
A course in real analysis designed to strengthen and extend the theory behind the calculus sequence. **Prerequisite:** MATH 3834. S

**MATH 4873 COMPLEX VARIABLES**
Complex numbers and their algebra. Analytic functions. Cauchy-Riemann conditions, differential calculus of analytic functions. **Prerequisite:** MATH 3834. FE

**MATH 4933 TEACHING SECONDARY MATHEMATICS**
An analysis of subject matter and instructional processes in current secondary school mathematics. Teaching methods and techniques for the preparation of the professional teacher of mathematics. **Prerequisites:** Admission to Teacher Education Program and MATH 2834. FO

Math for Elementary Teachers

The following courses are designed to prepare elementary and middle school teachers and **CANNOT** satisfy any mathematics requirement for programs other than Middle School Mathematics, bachelors in Elementary Education, or Masters in Elementary Education.

**MATH 1433 STRUCTURAL CONCEPTS IN ARITHMETIC**
A fundamental course in arithmetic concepts and basic skills. For elementary teachers. F, S

**MATH 1443 STRUCTURAL CONCEPTS IN MATHEMATICS**
A study of the structures of number systems, informal geometry, probability and statistics. For elementary teachers. F, S

**MATH 1503 ALGEBRA FOR ELEMENTARY TEACHERS**
An introductory algebra course appropriate to the needs of the elementary teacher. Structure pattern, contemporary terminology, techniques and methods of solving algebraic equations, systems of equations, and inequalities. Graphing calculators. F, S

**MATH 2133 GEOMETRY FOR ELEMENTARY TEACHERS**
A beginning course in geometry for the elementary teacher. The development is an inductive and investigative approach with emphasis on language, models, constructions, and application. Hands-on-activities as well as computer activities. F, S

**DEPARTMENT OF MUSIC**

**MUSIC 1013 INTRODUCTION TO MUSIC I**
Introduction to the history of music and musical styles. F, S, SU

**MUSIC 1032 INTRODUCTION TO WORLD MUSIC**
Introduction to the history of music and musical styles from cultures around the world. Designed as a course for music majors. F

**MUSIC 1103 MUSIC AND CULTURE**
Surveying fundamental issues of music therapy, including its definitions, histories, theories, trainings, served populations, and professional trends. F

**MUSIC 1172 INTRODUCTION TO MUSIC THERAPY**
Surveying fundamental issues of music therapy, including its definitions, histories, theories, trainings, served populations, and professional trends. F

**MUSIC 1213 MUSIC THEORY I**
Beginning study of diatonic theory, including intervals, chords, written harmony, ear training, sight singing, keyboard harmony, and form. F

**MUSIC 1221 AURAL SKILLS I**
Beginning study of aural skills including intervals, ear training, sight singing, and harmonic and melodic dictation. F

**MUSIC 1223 MUSIC THERAPY I: MUSIC THERAPY IN REHABILITATION AND MEDICAL SETTINGS**
An orientation to the biomedical theories of music therapy and principles of therapeutic designs in various medical and rehabilitation settings. D

**MUSIC 1313 MUSIC THEORY II**
Continuation of MUSIC 1214 Elementary Theory. Emphasis on chords, inversions, secondary sevenths, and modulations. S

**MUSIC 1321 AURAL SKILLS II**
Continuation of MUSIC 1221 consisting of aural skills including intervals, ear training, sight singing, and harmonic and melodic dictation. Emphasis on singing chord members, secondary functions, and modulation. S

**MUSIC 1411 BRASS CLASS**
Class instruction in one brass instrument and survey of the brass family. May be repeated for a total of three hours’ credit. F, S
MUSIC 1511 WOODWIND CLASS
Class instruction in two woodwind instruments and survey of the woodwind family. May be repeated for a total of three hours’ credit. F, S

MUSIC 1611 PERCUSSION CLASS
Class instruction in one percussion instrument and survey of the percussion family. May be repeated for a total of three hours’ credit. F, S

MUSIC 1711 STRING CLASS
Class instruction in one orchestral stringed instrument and survey of the orchestral string family. May be repeated for a total of three hours credit. F, S

MUSIC 1911 BEGINNING GUITAR CLASS
Beginning class instruction on the classical guitar. F, S

MUSIC 2081 FIELD STUDIES I
Experiential learning of the skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in medical and physical rehabilitation settings. One to two hours of clinical experience and a one-hour seminar are required each week. D

MUSIC 2101 VOICE CLASS
Class instruction in voice. May not be repeated for additional credit. F, S

MUSIC 2181 FIELD STUDIES II
Experiential learning of skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in mental health. One to two hours of clinical experience and a one-hour seminar are required each week. D

MUSIC 2222 RECREATIONAL MUSIC
The use of various music experiences in the therapeutic and educational process, including experiences in piano, guitar, body movement, educational rhythmics, and directing group activities. D

MUSIC 2681 VOCAL ENSEMBLE
Experience in performing in small vocal ensembles. D

MUSIC 2811 CLASS PIANO I
Class instruction in piano for students with no previous keyboard experience. Emphasis on practical keyboard facility, sight reading, and harmonizing folk melodies and songs. F, S

MUSIC 2821 CLASS PIANO II
Class instruction in piano for students with beginning private piano instruction or those who have completed MUSIC 2811. F, S

MUSIC 2831 CLASS PIANO III
Class instruction in piano for moderately advanced beginners or those who have completed MUSIC 2821. F, S

MUSIC 2841 CLASS PIANO IV
Class instruction in piano for moderately advanced students placed in this class by audition. D

MUSIC 2861 ACCOMPANYING
Training and experience in keyboard accompaniments for solos and ensembles. F, S

MUSIC 2901 PIANO ENSEMBLE AND ACCOMPANYING
Performance and review of piano literature written for more than one player. Continues experiences begun in MUSIC 2861. D

MUSIC 2911 INTERMEDIATE GUITAR
Class instruction in classical guitar for students who have completed MUSIC 1911. D

MUSIC 2951 MODERN LANGUAGE DICTION
The study of Italian, German and French diction for singers. F

MUSIC 2981 PRINCIPLES OF CONDUCTING
Rudiments of conducting and elements of interpretation and score reading. (One-hour lab) F

MUSIC 3081 FIELD STUDIES III
Experiential learning of skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in special education. One to two hours of clinical experience and a one-hour seminar are required each week. D

MUSIC 3101 INSTRUMENTAL CONDUCTING
Continuation of MUSIC 2981 emphasizing conducting skills for instrumental ensembles. (One-hour lab) S

MUSIC 3113 MUSIC THERAPY II: MUSIC THERAPY IN MENTAL HEALTH AND ILLNESS
Music therapy theory, research, and clinical practice in psychiatry. D

MUSIC 3123 MUSIC THERAPY IV: THE PSYCHOLOGY OF MUSIC
Study of physiological, cognitive, and affective response to music, music preference and ability, acoustics, and research. D

MUSIC 3151 CHORAL CONDUCTING
Continuation of MUSIC 2981 emphasizing conducting skills for choral ensembles. (One-hour lab) S

MUSIC 3171 INTRODUCTION TO MOVEMENT
Develop knowledge and skills of movement via leading structural and creative/improvisatory experiences, communicating via movement, and both music and non-music goals for movement activities. D

MUSIC 3181 MUSIC THERAPY COMPETENCIES AND PROFESSIONAL ETHICS
Discussion of music therapy professional competencies, standards of clinical practices (including topics of insurance reimbursement and job/internship searching), and ethics dilemmas that should be resolved in compliance with Code of Ethics by AMTA and CBMT. D

MUSIC 3202 MUSIC METHODS FOR ELEMENTARY TEACHERS
Training in music for the non-musician teacher who will teach in a self-contained elementary classroom or who will support the work of a general music specialist. Activities include singing, listening, rhythmic and creative activities, and experience in playing instruments used in the K-6 classroom. F, S, SU

MUSIC 3231 BAND INSTRUMENT REPAIR
Practical course in instrument repair. D

MUSIC 3253 MUSIC THEORY III
The study of chromatic theory. Emphasis is given to altered chords, chords of the augmented sixth, enharmonic spellings, and various non-harmonic tones.
MUSIC 3261 AURAL SKILLS III
Continuation of MUSIC 3261 consisting of aural skills including intervals, ear training, sight singing, and harmonic and melodic dictation. Emphasis on chromaticism and modes. F

MUSIC 3303 MUSIC THEORY IV
Continuation of MUSIC 3253 with opportunity for creative experience in writing these styles. S

MUSIC 3311 AURAL SKILLS IV
Continuation of MUSIC 3261 consisting of aural skills including intervals, ear training, sight singing, and harmonic and melodic dictation. Emphasis on chromaticism and modes. S

MUSIC 3331 JAZZ IMPROVISATION
Application of the elements of basic harmony and theory to jazz improvisation. S

MUSIC 3353 HISTORY OF MUSIC I
Study of the historical eras from antiquity through the eighteenth century A.D., with emphasis on analytical study of the musical forms and styles of these periods. F

MUSIC 3403 HISTORY OF MUSIC II
Continuation of MUSIC 3353 with emphasis on the eras from 1800 to the present. S

MUSIC 3452 HISTORY OF OPERA
History of the development of opera from 1600 to the present. D

MUSIC 3553 HISTORY OF MUSIC III
Continuation of MUSIC 3403 with emphasis on the eras from 1900 to the present. S

MUSIC 4001-4 INDIVIDUAL STUDY IN MUSIC
Individual study in various areas of musical knowledge. By permission of chair only. D

MUSIC 4011-4 SEMINAR IN MUSIC (TOPIC)
Group study of specified topic in music for undergraduate students. Credit one to four semester hours. D

MUSIC 4020 SENIOR RESEARCH PROJECT
Non-credit course required for all students who seek registration in music therapy. D

MUSIC 4021 WOODWIND ENSEMBLE
Performance of chamber music for woodwind instruments. Two rehearsals each week. Enrollment by permission of the instructor. F, S

MUSIC 4031 BRASS ENSEMBLE
Performance of chamber music for brass instruments with emphasis on the brass choir. Two rehearsals each week. Enrollment by permission of the instructor. F, S

MUSIC 4041 PERCUSSION ENSEMBLE
Performance of music written for percussion ensemble with emphasis on “total” percussion. Two rehearsals each week. Enrollment by permission of the instructor. F, S

MUSIC 4051 ORCHESTRA
One full orchestra and two string rehearsals each week. Enrollment by permission of the instructor. F, S

MUSIC 4061 SMALL INSTRUMENTAL ENSEMBLES
Performance of chamber music for small instrumental ensembles. Two rehearsals each week. Enrollment by permission of the instructor. D

MUSIC 4071 JAZZ ENSEMBLE
Performance of the literature of jazz. Two or three rehearsals a week, depending on ensemble assignment. Enrollment by audition and permission of instructor. F, S, SU

MUSIC 4081 BAND
The performance of band literature in an ensemble situation. F, S, SU

MUSIC 4102 FORMS AND ANALYSIS
A course which provides the basic tools for the analysis of music from any period style. Emphasis of study is upon forms developed by common practice in western music from 1700 to the present. Prerequisite: MUSIC 1314. D

MUSIC 4112 ORFF AND KODALY TECHNIQUES IN ELEMENTARY
A survey of method and materials developed by Carl Orff, Zoltan Kodaly, and their interpreters for the elementary general music classroom. Emphasis is on rhythmic activities and music literacy. D

MUSIC 4122 BASIC ORFF I
Beginning, detailed study of the music education system developed by Carl Orff. D

MUSIC 4132 BASIC ORFF II
Continuation of MUSIC 4122. D

MUSIC 4141 CHORUS
Choral ensemble performance. Students are placed in the five choirs by auditions held during the first scheduled class meetings. F, S, SU

MUSIC 4151 ORFF PRACTICUM
Supervised application in an elementary classroom of the general music procedures studied in MUSIC 4122 and MUSIC 4132. D

MUSIC 4182 RESEARCH AND STATISTICS
Survey of Research in Music in APA style, emphasizing both quantitative as well as qualitative techniques, and elementary statistics. D

MUSIC 4202 COMPOSITION
Practical experience in musical composition in various forms and styles. Prerequisite: MUSIC 3303. D

MUSIC 4213 MUSIC THERAPY III: MUSIC THERAPY IN SPECIAL EDUCATION
Survey of common physiological and psychological characteristics of special education recipients, music therapy assessment and treatment that correspond with the Individual Education Plan (IEPs) or other care plans, as well as crucial legal considerations in the special education setting. D

MUSIC 4222 INSTRUMENTAL PEDAGOGY
Physical and psychological problems associated with teaching wind, percussion, and stringed instruments. FO

MUSIC 4232 ARRANGING
A practical course in the technique of arranging for instrumental and vocal groups. Prerequisite: MUSIC 3303. S
MUSIC 4242-4 MUSIC THERAPY V-CLINICAL TRAINING
A six-month supervised internship. Credit: two to four semester hours; may be repeated for not more than a total of eight semester hours. Prerequisite: Completion of all undergraduate course work. D

MUSIC 4251 OPERA WORKSHOP
Practical experience in all phases of opera and musical theater production. F

MUSIC-4261 INTRO TO MUSIC TECHNOLOGY
Introduction to computer applications for MIDI sequencing, music notation, and digital audio.

MUSIC 4302 ELEMENTARY AND SECONDARY GENERAL MUSIC
A course for music majors which emphasizes materials and methods for teaching elementary and secondary music in general education. A portion of the course is devoted to discussion of various philosophies of music education and standardized testing in music. F

MUSIC 4311 FIELD STUDIES IV
Experiential learning of skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in special education. One to two hours of clinical experience and a one-hour seminar are required each week. D

MUSIC 4352 PIANO PEDAGOGY
Teaching methods and materials for all levels of piano instruction, from grade school through high school. Discussion of private and class techniques. FO

MUSIC 4362 MUSIC HISTORY SURVEY
A survey course of all stylistic eras of Western music from antiquity to the present. D

MUSIC 4372 MUSIC THEORY PRACTICUM
A review of the undergraduate music theory curriculum and an introduction of analytical techniques. D

MUSIC 4402 BAND METHODS
A study of techniques for teaching public school instrumental music. Emphasis is on methods and materials, marching band shows, and various problems of administration. FO

MUSIC 4452 VOCAL METHODS
A study of music teaching techniques for junior and senior high school music programs, including large choral groups, small ensembles, the changing voice, vocal solos, the voice class, programming, and public relations. FE

MUSIC 4463 TECHNOLOGY IN MUSIC EDUCATION
An introduction to computer applications for MIDI sequencing, music notation, and digital audio. This course will also focus on technology for music education students to use in their classroom. F, S

MUSIC 4502 CHORAL LITERATURE
A review of music written for choral ensembles. Emphasis is on compositions appropriate for use in public school music programs. SO

MUSIC 4552 PIANO LITERATURE
A historical survey of the literature for the piano. SE

MUSIC 4602 INSTRUMENTAL LITERATURE
A review of music written for instrumental ensembles. Emphasis is on instructional material suitable for beginning, intermediate, and advanced students in the public schools. The class will review music for both private and group instruction. SE

MUSIC 4732 CHURCH MUSIC
A study of music as practiced by the various religious organizations in the U.S. which commonly employ professional musicians. Emphasis is on music literature and procedures used in formal worship. D

MUSIC 4812 ADVANCED MUSIC ANALYSIS
A course which provides the basic tools for the analysis of music from any style period. Emphasis of study is upon forms developed by common practice in western music from 1700 to the present. Prerequisites: MUSIC 3303 and MUSIC 3311. F

MUSIC 4900 RECITAL ATTENDANCE
A non-credit course required each semester for music majors and minors. The course provides listening and performance opportunities in formal and informal concert settings. F, S

MUSIC 4901 RECITAL ATTENDANCE
Provides the same experience as MUSIC 4900, but carries one hour credit. F, S

MUSIC 4950 SENIOR RECITAL
Non-credit course required for senior music education majors. The public or private performance of an approved concert in the principal applied music area. F, S, SU

MUSIC 4951 SENIOR RECITAL
Required of performance and composition majors in the Bachelor of Music degree program. Public performance of an approved concert in the principal applied music area. F, S, SU

MUSIC INDIVIDUAL MUSIC LESSONS (APPLIED MUSIC)
Individual lessons in piano, voice, organ, guitar, or any of the orchestral instruments. Students enrolled in one hour’s credit will receive twenty-five minutes of instruction each week. Students enrolled in two hour’s credit will receive fifty minutes of instruction each week. All enrollments are by signature from the chair of the music department. Enrollment in individual lessons is by permission of the department. Non-majors may apply for individual lessons, but music majors, minors, and endorsement students in good standing hold a higher priority for teacher assignment. F, S, SU

DEPARTMENT OF SOCIAL SCIENCES

Criminal Justice

CRMJS 1113 INTRO TO CRIMINAL JUSTICE
An overview of the agencies and processes involved in the administration of justice to those accused and convicted of violating the criminal law. Agency problems and due process issues related to law enforcement, prosecution, adjudication, sentencing and confinement of offenders are discussed. F

CRMJS 1223 INTRODUCTION TO LAW ENFORCEMENT
A description and analysis of law enforcement history and current practice. The complex role of American police agents at all levels of government, models of police service, critical issues affecting law enforcement and practice, and the progress toward professionalism are emphasized. D

CRMJS 2503 CRIMINAL JUSTICE ADMINISTRATION
A study of the organization and management of Criminal Justice agencies. D
CRMJS 3163 SOCIOLOGY OF DEVIAN'T AND CRIMINAL BEHAVIOR
A general study of causes, effects, and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. Prerequisite: CRMJS 1113. F

CRMJS 3243 COMPARATIVE CRIMINAL JUSTICE SYSTEMS
A trans-national study of criminal justice systems focusing on law enforcement, adjudication, and corrections for comparison with U.S. system. Prerequisite: CRMJS 1113. S

CRMJS 3353 THE CRIMINAL MIND
This course will explore the mind of those who commit criminal acts and attempt to understand their motives, backgrounds, and psyches. Additional topics discussed in the course will include the mind of the murderer, the stalker, the terrorist, the sex offender, the rapist, and the cyber stalker. Prerequisite: CRMJS 1113. D

CRMJS 3523 CRIMINOLOGY
The study of the etiology, social control, and theoretical analysis of criminal behavior. The course will review basic criminal theories as well as examine the societal components of criminal behavior. D

CRMJS 3803 PRIVATIZATION OF CRIMINAL JUSTICE
A study of the historical and contemporary involvement of citizens and business and industry (i.e., non-government) in law enforcement, investigation, security, surveillance, detention, corrections, and treatment. Prerequisite: CRMJS 1113. D

CRMJS 4012 SEMINAR IN CRIMINAL JUSTICE
Intensive study on selected topic in criminal justice. May be repeated with change of subject. Prerequisite: CRMJS 1113.

CRMJS 4013 SEMINAR IN CRIMINAL JUSTICE
Intensive study on selected topic in Criminal Justice. Prerequisite: CRMJS 1113. D

CRMJS 4103 JUVENILE JUSTICE
The study of delinquency and agencies of delinquency control; juvenile courts, probation, institutions and community organizations. Prerequisite: CRMJS 1113. S

CRMJS 4143 CRITICAL ISSUES IN CRIMINAL JUSTICE
Analysis of selected critical issues facing the criminal justice system. Prerequisite: CRMJS 1113. D

CRMJS 4153 U.S. CORRECTIONS
A study of corrective social responses to adult criminal behavior; focuses largely on the process of institutionalization, along with alternative treatment strategies. Prerequisite: CRMJS 1113. F

CRMJS 4333 VICTIMOLOGY
A sociological analysis of victimization, the social response to victimization, and the victim movement. Prerequisite: CRMJS 1113. D

CRMJS 4903 DIRECTED READINGS IN CRIMINAL JUSTICE
Scope of project determined by instructor. May be repeated for a total of six hours. Prerequisite: CRMJS 1113. Permission required.

CRMJS 4913 INTERNSHIP IN CRIMINAL JUSTICE
Qualified students will be assigned to cooperating criminal justice agencies during appropriate academic periods to observe and to apply previous course work. Prerequisite: CRMJS 1113. Permission required. F, S, SU

ECONO 2263 INTRODUCTION TO MACROECONOMICS
Study of the economy as a whole. Topics include national income accounting, the determination of the levels of income, output, employment, and price; money and banking; stabilization policies; international economics. F, S

ECONO 2363 INTRODUCTION TO MICROECONOMICS
Fundamental microeconomic principles involving behavior of consumers, business firms, and resource owners as they relate to the allocation of resources; individual price and output determination. F, S

ECONO 2463 BUSINESS STATISTICS
Study of the relationship of data collection, analysis, and decision-making; emphasis on data collection, tabular and graphical methods, numerical methods, probability, discrete and continuous probability distributions, sampling methods and distributions, interval estimation, hypothesis testing, statistical inference, and linear regression and analysis. F, S, SU

ECONO 3863 MONEY AND BANKING
The study of the role of money, financial markets, and monetary policy in the overall economy; monetary theory. Prerequisites: ECONO 2263. D

ECONO 4003 INDEPENDENT STUDY IN ECONOMICS (TOPIC)
Individual study of selected topics under the supervision of an economics faculty member. Permission required. D

ECONO 4013 SEMINAR IN ECONOMICS (TOPIC)
Group study of specified topics in economics. Permission required. D

ECONO 4563 MANAGERIAL ECONOMICS
An application of economic analysis and theory to the decision-making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure; pricing. Prerequisite: ECONO 2363. D

ECONO 4963 INTERNATIONAL ECONOMICS
Fundamentals of trade theory and international finance. Survey of important current economic problems of an international nature. Prerequisites: ECONO 2263. D

GEOG 1103 WORLD CULTURAL GEOGRAPHY
Study of world’s cultural regions. Cultural development is surveyed for such topics as populations, technologic-economic systems, and socio-cultural beliefs and practices. F, S

GEOG 4083 ENVIRONMENTAL STUDIES
This course examines impact of humans on the environment. Specifically it attempts to compare the relative stress humans impose upon the environment within various socio-economic structures. D

HIST 1033 WORLD HISTORY
An introduction to the history of world civilizations with an emphasis on the development of ideas, institutions, and religions as well as an examination of the impact particular individuals and movements have had in history. F, S, SU
HIST 1043 UNITED STATES HISTORY TO 1877
A survey of American history, beginning with the European background and continuing through the reconstruction era. F, S, SU

HIST 1053 UNITED STATES HISTORY SINCE 1877
A survey of American history from the end of reconstruction to the present. F, S, SU

HIST 2603 WRITING HISTORY
The method and practice of writing history. F

HIST 3043 EARLY MODERN EUROPE
History of European states from the late medieval period to the outbreak of the French Revolution. D

HIST 3063 HISTORY OF IRELAND
A history of Ireland with an emphasis on the period since the 17th century. D

HIST 3083 NATIONALISM AND ETHNICITY
An examination of the theories of national and ethnic community, and the violent application of such theories in 19th and 20th century Europe. D

HIST 3103 MEDIEVAL ENGLAND
Intensive examination of English history from the Anglo-Saxon era through the reign of King John with an emphasis on the detailed study of chronicles, laws, and other primary sources. F

HIST 3113 TUDOR ENGLAND
A study of selected topics from the history of 16th century England.

HIST 3173 HISTORY OF IDEAS
This course uses a seminar method to examine some of the influential texts and ideas of the modern age. Beginning with great humanist texts and working through writings of Marx, Freud, and others, students will use a Socratic method to examine primary sources. D

HIST 3193 THE EUROPEAN UNION
This course adopts a lively, interactive approach to study of the European Union, its institutions, member states, historical and legal background, and current issues. Students participate in debates, presentations, and a “Model EU”. D

HIST 3203 HISTORY OF GERMANY: 9 A.D. – 1899
The history of the German people and states from ancient tribal society, through the Holy Roman Empire, the reformation of Martin Luther, to modern nationalism, Hitler’s Reich, and the divided Germany of the Cold War. F

HIST 3303 HISTORY OF IMPERIAL RUSSIA
Social, political, economic, and cultural developments from Muscovy to Bolshevik Revolution of 1917; emphasizing principal Muscovite regimes, Russian expansion, revolutionary movements, and World War I. D

HIST 3403 MODERN FRANCE
Surveys developments of modern France from the collapse of the ancient regime through the French revolution, the Napoleonic empire, the rise of the bourgeoisie, the Third Republic, the First and Second World Wars, the Fifth Republic, and contemporary French society as part of the European economic community. D

HIST 3503 EARLY CHRISTIAN THOUGHT
A historical introduction to early Christian writings and the development of Christian doctrine during Christianity’s first centuries. Permission required. D

HIST 3603 20th CENTURY WORLD HISTORY
A history of the 20th century and the early years of the new millennium. The emphasis will be on traditionally non-western nations and regions such as China, Japan, India, Russia, and Africa. The role of the United States and Europe in this period will also be examined. D

HIST 4011-4 SEMINAR IN HISTORY
Intensive study on selected topic in history. Credit from one to four hours. May be repeated with change of subject for total of 12 hours. D

HIST 4023 COLONIAL AMERICA: 1492-1765
A study of the European Colonies north of Mexico from earliest European exploration to the victory of the British in the Wars for North American Empire. D

HIST 4033 REVOLUTIONARY AMERICA: 1765-1808
Study of the revolutionary process in the British colonies and the Revolutionary War, the creation of the 1st American Republic under the Articles of Confederation and a 2nd under the Constitution, the revolution 1800 and the stabilization of the republic in the presidency of Thomas Jefferson. D

HIST 4043 NEW NATION AND AGE OF JACKSON: 1808-1850
America from the Age of Good Feeling through the Age of Jackson including the War of 1812, the second Great Awakening, the rise of social reform movements, the rise and decline of the second party system and developing tensions between nationalism and sectionalism. D

HIST 4053 CIVIL WAR AND RECONSTRUCTION: 1850-1877
Causes of Civil War, forming of Southern Confederacy, major events of war, political, economic, and social problems associated with restoration of the union. S

HIST 4063 GILDED AGE/PROGRESSIVE ERA
Study of the transformation of America from rural society “isolated” from world affairs into highly industrialized power. Social change will be stressed. D

HIST 4073 20th CENTURY AMERICA: 1915-1950
The 1920's, Depression and New Deal, WWII, Cold War, Korea, and McCarthyism. D

HIST 4083 AMERICA SINCE 1970
Study of the Kennedy and Johnson years, Civil Rights, Vietnam, Counterculture, Nixon Watergate, “me generation”, Ronald Reagan’s America, and the contemporary scene. D

HIST 4093 HISTORICAL RESEARCH AND WRITING
The process of historical research, including methods of locating materials, criticizing sources, analyzing and organizing notes, and writing results and presenting findings. Prerequisite: HIST 2603. F

HIST 4103 AMERICAN INDIANS
Emphasis is on Native American cultures and societies in the United States and federal Indian policy from 1830 to the present. F

HIST 4123 AMERICA IN THE 1950s AND 1960s
The study of the “liberal decade” including the Kennedy’s, Johnson, King, and Nixon, Civil Rights, Vietnam, 1968, and the Counter culture. D

HIST 4133 WOMEN IN AMERICAN HISTORY
The changing role of women in American society from colonial times to the present. Emphasis on cultural values and attitudes, the suffrage movement, feminism and antifeminism in the 20th century as well as the
contemporary economic, legal, political, social, and intellectual issues facing women today. D

HIST 4203 OLD SOUTH
Study of antebellum South. Emphasis on role which South and Southerners played in national affairs and development of southern societal characteristics. S, D

HIST 4213 NEW SOUTH
Survey of postbellum South with emphasis on economic, political, and social forces which have changed culture of this region. D

HIST 4313 AMERICAN WEST
Study of the Trans-Mississippi West with emphasis on the impact of the frontier on American life, environmental issues, and the 20th Century West. D

HIST 4353 HISTORY OF OKLAHOMA
Oklahoma history from its beginning to present, including Indian background, formation into territories, achievement of statehood, and general cultural, economic, and political development. S, SU

HIST 4503 AMERICAN DIPLOMATIC HISTORY
Power, force, and diplomacy. A study of the “American Century”. Emphasis is on United States foreign relations and entanglements, American influence in the 20th Century World including culture, business, and government. D

HIST 4803 PUBLIC HISTORY INTERNSHIP
Readings, essays, and an internship in a public history setting. Permission required. D

HIST 4901-4 DIRECTED READINGS IN HISTORY (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. Permission required. D

Political Science

POLSC 1103 AMERICAN GOVERNMENT AND POLITICS
Survey of origin, structure, and functions of national government with emphasis on Constitution and the American political process. F, S, SU

POLSC 2303 COMPARATIVE POLITICS
Introduction to the systematic study of comparative government and politics. Analytical topics include political change, political communication, political culture, and political socialization. Prerequisite: POLSC 1103. F

An introduction to the elements of the criminal law and procedural rights of defendants. Prerequisite: POLSC 1103. F

POLSC 2803 THE JUDICIAL PROCESS
Introduction to the legal system with emphasis on organization and jurisdiction of federal and state courts, judicial process, and basic principles of American jurisprudence. Prerequisite: POLSC 1103. S

POLSC 3003 FEDERAL CONSTITUTION
Decisions through which the Supreme Court has developed judicial review and defined the scope of federal power. Prerequisite: POLSC 1103. F

POLSC 3033 POLITICAL PARTIES
Survey of the origin and development of the parties of the United States including an analysis of contemporary policies and issues. Prerequisite: POLSC 1103. S

POLSC 3113 POLITICAL THEORY
Examines classic and current views on the nature of authority, liberty, and justice. Prerequisite: POLSC 1103. F

POLSC 3163 PRINCIPLES OF INTERNATIONAL RELATIONS
Basic survey of international relations, including a consideration of the basis of national power and the fundamentals of international politics, law, and organization. Prerequisite: POLSC 1103. D

POLSC 3323 LEGISLATIVE-EXECUTIVE RELATIONS
The study of the organization and functioning of Congress and the Executive Branch. Prerequisite: POLSC 1103. F

POLSC 3343 WOMEN & POLITICS
A study of women’s pursuit of equality in the U.S. and the international community; their successes as well as the obstacles they have confronted; and the political organizations created to achieve their goals. Prerequisite: POLSC 1103. D

POLSC 3353 MODEL UNITED NATIONS I
Inform students about the United Nations system; consideration of the political, social, economic, and environmental issues, as well as disarmament and other issues within the international community. Participation in the Midwest Model United Nations is required. Prerequisite: POLSC 1103. SE

POLSC 3363 PUBLIC ADMINISTRATION THEORY AND PRACTICE
Introduction to principles and problems of public administration, organization, planning, supervision, budgeting, and administration responsibility. Prerequisite: POLSC 1103. D

POLSC 3373 MODEL UNITED NATIONS II

POLSC 4013 SEMINAR IN POLITICAL SCIENCE (TOPIC)
Intensive study on selected topic in Political Science. May be repeated with change of subject for a total of 12 hours. Prerequisite: POLSC 1103. D

POLSC 4233 URBAN POLITICS AND ELECTION SYSTEMS
A study of the governance systems of cities and towns within the governing state context; and the processes of municipal and state policy implementation. Prerequisite: POLSC 1103. D

POLSC 4253 INTERNATIONAL LAW
An analysis of international organizations, international courts, issues of sovereignty, diplomatic relations, treaties, human rights, economic policies, and when the use of force is justified. The course will review cases from the United States Supreme Court, the International Court of Justice and other courts throughout the world. Prerequisite: POLSC 1103. D

POLSC 4253 INTERNATIONAL LAW
Development and operation of international organizations from League of Nations to present, with emphasis on UN but including regional and nongovernmental organizations. Prerequisite: POLSC 1103. D

POLSC 4403 PUBLIC POLICY FORMATION
A survey of the development and administration of public policy. Prerequisite: POLSC 1103. D
POLSC 4613 CIVIL RIGHTS AND LIBERTIES
Limitations placed on federal and state governments by the Constitution. Emphasizes First Amendment freedoms and the Fourteenth Amendment. Prerequisite: POLSC 1103. S

POLSC 4903 DIRECTED READINGS IN POLITICAL SCIENCE (TOPIC)
Scope of project determined by instructor. May be repeated for a total of six hours. Prerequisite: POLSC 1103. Permission required. D

POLSC 4933 GOVERNMENT INTERNSHIP
Qualified students will be assigned to cooperating governmental offices during appropriate academic periods to observe and to apply previous coursework. Prerequisite: POLSC 1103. Permission required. D

Social Sciences

SOCSC 3853 STATISTICS FOR THE SOCIAL SCIENCES
Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. F, S

SOCSC 3863 FUNDAMENTALS OF RESEARCH
Use of scientific method in social science research. S

SOCSC 4133 TEACHERS COURSE IN THE SOCIAL SCIENCES
Resources, methods and problems in teaching the social sciences in secondary schools. Required for certification in this field. F

SOCIO 1003 INTRODUCTION TO SOCIOLOGY
A general education course covering the fundamental concepts of sociology; foundations of group life; social change, processes, and problems. F, S, SU

SOCIO 3043 RACIAL AND CULTURAL MINORITIES
An interdisciplinary examination of the causes and consequences of prejudice and discrimination. Prerequisite: SOCIO 1003. D

SOCIO 3163 SOCIOLOGY OF DEVIANT AND CRIMINAL BEHAVIOR
A general study of the causes, effects and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. Prerequisite: SOCIO 1003. F

SOCIO 4013 SEMINAR IN SOCIOLOGY
Intensive study on selected topic in Sociology. Prerequisite: SOCIO 1003. D

SOCIO 4033 ADVANCED ANALYSIS OF SOCIAL PROBLEMS
Contemporary U.S.A. and international social problems are examined through use of contemporary sociological theories. (The course is designed to give an in-depth understanding of a structural approach to a changing social milieu.) Prerequisite: SOCIO 1003. D
COLLEGE OF PHARMACY

PHARM 3001 INTRODUCTION TO PHARMACY
One hour lecture. Required in the first professional semester, orientates entering students for the College of Pharmacy and initiates concepts of professionalism and professional responsibility. Prerequisite: Admission to the College of Pharmacy

PHARM 3010 PHARMACY SEMINAR I
Zero hours lecture. Required in the second semester of the first professional year. Students will participate in professional program activities, which may include continuing professional development, interprofessional education, co-curricular activities, assessment, and portfolio development. Prerequisite: PHARM 3001.

PHARM 3012 PHARMACY CALCULATIONS
Two hours lecture. Calculations applicable to the practice of pharmacy including metric and common systems of measurement, dosages, specific gravity, expressions of concentration, pharmaceutical formulas, and determination of patient parameters. Prerequisite: Admission to the College of Pharmacy

PHARM 3023 PHARMACEUTICS I
Three hours lecture. Study of the applications of physical chemical and biopharmaceutical principles in pharmacy and pharmaceutical sciences, especially in designing various stable pharmaceutical dosage forms. Discussions involving pertinent mathematical concepts, development issues, processes, regulatory issues and compendial methods of evaluation of commonly administered dosage forms are included. Prerequisite: Admission to the College of Pharmacy. Concurrent enrollment: PHARM 3012

PHARM 3123 PHARMACEUTICS II
Three hours lecture. A continued study of pharmaceutical dosage forms with emphasis on novel and targeted drug delivery systems. Discussions focusing on transforming proteins, genes, and other biotechnology driven compounds into therapeutic products including the role of high throughput screening, molecular modeling, and new drug therapies in fabricating rational drug delivery systems are included. Prerequisite: PHARM 3012, PHARM 3023.

PHARM 3213 INTRODUCTORY PHARMACY PRACTICE EXPERIENCE – COMMUNITY
Full-time, three-week practicum conducted in a community pharmacy; provides introductory experiences in contemporary pharmacy practice including: dispensing, prescription processing systems, management, and patient counseling. Prerequisite: PHARM 3311, PHARM 3813.

PHARM 3311 PHARMACEUTICAL CARE LABORATORY I
Introduction to the prescription, dispensing processes, patient counseling, and pharmaceutical compounding. Prerequisite: Admission to the College of Pharmacy. Prerequisite or concurrent enrollment: PHARM 3012, PHARM 3023, PHARM 3813.

PHARM 3321 PHARMACEUTICAL CARE LABORATORY II
Students develop the ability to fill prescriptions rapidly and accurately. Students are presented with numerous written and phonened prescriptions during each lab session, many of which contain intentional errors. Students develop methods to correct prescription errors through appropriate physician communications. Students practice computerized prescription filling and develop patient counseling skills. Students refine their skills in pharmaceutical compounding. Prerequisite: PHARM 3001, PHARM 3012, PHARM 3311, PHARM 3813. Prerequisite or concurrent enrollment: PHARM 3123.

PHARM 3405 FUNDAMENTALS OF DRUG ACTION
Five hours lecture. The topic areas include introduction to pharmacodynamics and receptor pharmacology, principles of medicinal chemistry, absorption, distribution, metabolism, excretion and basics of biopharmaceutics, introduction to pharmacogenomics and pharmacogenetics, an introduction to toxicology of drugs and other chemicals and drug resistance. Prerequisite: CHEM 4124, PHARM 3614.

PHARM 3614 PHYSIOLOGY
Four hours lecture. This course focuses on the structures of the human body and the integrative regulatory mechanisms through which these structures work together to sustain the normal functions of a living organism. Topics that will be covered during the course include the following: cellular and molecular physiology, as well as the nervous, cardiovascular, respiratory, kidney, digestive, and endocrine systems. Prerequisite: Admission to the College of Pharmacy.

PHARM 3813 COMMUNITY PHARMACY
Three hours lecture. An introduction to various aspects of pharmacy practice in a retail or community setting. A discussion of prescription format and interpretation, drug standards and drug laws, communication skills and patient counseling, as well as important characteristics and counseling information for the most commonly dispensed prescription products will be included. Prerequisite: Admission to the College of Pharmacy.

PHARM 3823 HEALTH AND BIOSTATISTICS
Three hours lecture. A practical application of health-related statistical analysis providing students with the knowledge and skills needed to read, interpret, and evaluate quantitative findings in the pharmacy and medical literature. Prerequisite: PHARM 3012.

PHARM 4010 PHARMACY SEMINAR II
0 hours lecture. Required in the first and second semesters of the second professional year. Students will participate in professional program activities, which may include continuing professional development, interprofessional education, co-curricular activities, assessment, and portfolio development. Prerequisite: PHARM 3010 and second professional year standing.

PHARM 4142 HEALTH-SYSTEM PHARMACY
Two hours lecture. An introduction to institutional pharmacy practice and products. Emphasis on preparation, administration and storage of parenteral or enteral products employing aseptic techniques. General principle of primary and secondary engineering control and sterilization methods are covered as they pertain to the maintenance of proper aseptic conditions. This is followed by importance of documentation, policies and procedures relevant to institution, home infusion and compounding practices. Prerequisite: PHARM 3123. Prerequisite or concurrent enrollment: PHARM 4331.

PHARM 4223 INTRODUCTORY PHARMACY PRACTICE EXPERIENCE – INSTITUTIONAL
Full-time, three-week practicum conducted in an institutional pharmacy; provides introductory experiences in contemporary institutional pharmacy practice including: dispensing; medication management systems; policies and procedures in institutional pharmacy. Prerequisite: PHARM 4142, PHARM 4331.

PHARM 4302 DRUG INFORMATION
Two hours lecture. An overview of drug information sources, retrieval processes, and analysis. Prerequisite: PHARM 3123, PHARM 3823. Prerequisite or concurrent enrollment: PHARM 4612.

PHARM 4323 PHARMACOTHERAPY I
Three hours lecture. An introduction to the clinical role of the pharmacist with emphasis on patient interviewing and counseling technique, evaluating physical assessment and clinical laboratory data, and problem list development with SOAP note documentation. Prerequisite: PHARM 4302, Blood pressure certification. Prerequisite or concurrent enrollment: PHARM 4341.

PHARM 4331 PHARMACEUTICAL CARE LABORATORY III
This course will provide students with hands on experience in preparing and dispensing parenteral and sterile products and admixtures using aseptic techniques. Emphasis will be given on proper garbing, use of laminar flow hood, handling and labeling of sterile products in institutional dispensing systems. Prerequisite: PHARM 3321. Prerequisite or concurrent enrollment: PHARM 4142.
PHARM 4332 BASIC PHARMACOKINETICS
Two hours lecture. An introduction to pharmacokinetic terminology, particular emphasis on understanding, mathematical and conceptual aspects of basic pharmacokinetics. General principles of pharmacokinetic models are presented as they pertain to the process of absorption, distribution and elimination of drugs in humans and the significance of these processes in drug therapy. Prerequisite: PHARM 3405.

PHARM 4341 PHARMACEUTICAL CARE LABORATORY IV
Development of pharmaceutical care plans; medication therapy management; drug information retrieval and application; patient interviewing and assessments; patient case studies. Prerequisite: PHARM 4302, PHARM 4331. Prerequisite or concurrent enrollment: PHARM 4323.

PHARM 4512 MEDICINAL CHEMISTRY I
Two hours lecture. A study of medicinal chemistry of drug classes involving discussion of important physiochemical parameters, their effects on biochemical including receptors and/or enzymes, pharmacological and pharmacokinetic processes. The study of structure activity relationship (SAR) of the drugs is an important component of the whole course. Prerequisite: PHARM 3405. Prerequisite or concurrent enrollment: PHARM 4612, PHARM 4634.

PHARM 4522 MEDICINAL CHEMISTRY II
Two hours lecture. A study of medicinal chemistry of drug classes involving discussion of important physiochemical parameters, their effects on biochemical including receptors and/or enzymes, pharmacological and pharmacokinetic processes. The study of structure activity relationship (SAR) of the drugs is an important component of the whole course. Prerequisite: PHARM 4512. Prerequisite or concurrent enrollment: PHARM 4622, PHARM 4644.

PHARM 4612 PATHOPHYSIOLOGY I
Two hours lecture. A study of the pathology, pathophysiology, and clinical manifestations of human disease states. Prerequisite: PHARM 3614. Prerequisite or concurrent enrollment: PHARM 4512, PHARM 4634, BIOL 4213.

PHARM 4622 PATHOPHYSIOLOGY II
Two hours lecture. A study of the pathology, pathophysiology, and clinical manifestations of human disease states. Prerequisite: PHARM 4612. Prerequisite or concurrent enrollment: PHARM 4522, PHARM 4644.

PHARM 4634 PHARMACOLOGY I
Four hours lecture. A study of the classification, mechanism of action, pharmacological effects, and therapeutic uses of medications. Prerequisite: PHARM 3405, PHARM 3614. Prerequisite or concurrent enrollment: PHARM 4512, PHARM 4612.

PHARM 4644 PHARMACOLOGY II
Four hours lecture. A study of the classification, mechanism of action, pharmacological effects, and therapeutic uses of medications. Prerequisite: PHARM 4634. Prerequisite or concurrent enrollment: PHARM 4522, PHARM 4622.

PHARM 4712 HEALTH ISSUES I
Two hours lecture. The Health Issues courses are intended to promote awareness of emerging topics and concepts in pharmacy, medicine, and public health. This course will focus on public health policy and the social and behavioral aspects of pharmacy and medicine. Prerequisite: PHARM 4302.

PHARM 5010 PHARMACY SEMINAR III
0 hours lecture. Required in the first and second semesters of the third professional year. Students will participate in professional program activities, which may include continuing professional development, interprofessional education, co-curricular activities, assessment, and portfolio development. Prerequisite: PHARM 4010 and third professional year standing.

PHARM 5054 NONPRESCRIPTION PRODUCTS THERAPEUTICS
Four hours lecture. An in-depth examination of medical conditions for which nonprescription products are safe and effective. Emphasis is placed on the role of the pharmacist in pharmacist-assisted self-care, including referral to another practitioner when necessary. Nonprescription products labels are examined in detail, including ingredients, indications, contraindications, precautions, warnings, and dosage instructions. Prerequisite: PHARM 4323, PHARM 4341, PHARM 4622, PHARM 4644. Prerequisite or concurrent enrollment: PHARM 5204, PHARM 5351.

PHARM 5204 PHARMACOTHERAPY II
Four hours lecture. Predominately lecture-based course which lays the foundation for the principles and application of evidence based medicine, with an emphasis placed on therapy selection rational, medication and disease monitoring, and drug interactions for common acute and chronic diseases seen in the inpatient and ambulatory care setting. Prerequisite: PHARM 4323, PHARM 4341, PHARM 4622, PHARM 4644. Prerequisite or concurrent enrollment: PHARM 5351, PHARM 5301.

PHARM 5234 PHARMACOTHERAPY III
Four hours lecture. Predominately lecture-based course which builds upon the basic sciences and clinical based prerequisites. This course further develops knowledge of the principles and application of evidence based medicine, with an emphasis placed on therapy selection rational, medication and disease monitoring, and drug interactions for additional common acute and chronic diseases seen in the inpatient and ambulatory care setting. Prerequisite: PHARM 5204, PHARM 5351. Prerequisite or concurrent enrollment: PHARM 5361.

PHARM 5301 CLINICAL PHARMACOKINETICS
One hour lecture. The absorption, distribution metabolism and elimination of common medicinal agents will be reviewed. Mathematical modeling will be used to predict the pharmacokinetic behavior of selected medicinal agents in a variety of patient populations. Prerequisite: PHARM 4323, PHARM 4332, PHARM 4341. Prerequisite or concurrent enrollment: PHARM 5204, PHARM 5351.

PHARM 5351 PHARMACEUTICAL CARE LABORATORY V
Interactive, advanced patient care course focused on the collection and interpretation of patient specific data, the identification of pharmaceutical care related problems and therapeutic recommendations based on case scenarios. Introductory topics related to patient care not covered elsewhere will be introduced at the beginning of the course. Prerequisite: PHARM 4323, PHARM 4341, PHARM 4622, PHARM 4644. Prerequisite or concurrent enrollment: PHARM 5204, PHARM 5351.

PHARM 5361 PHARMACEUTICAL CARE LABORATORY VI
Capstone course with increased independent learning via patient case studies focused on the development and implementation of pharmaceutical care plans with emphasis on therapeutic recommendations, monitoring, and adjustments in patients with multiple concomitant diseases. This course is also designed to improve upon professional skills such as problem-solving, presentation skills, writing skills, and drug information skills. Prerequisite: PHARM 5204, PHARM 5351, PHARM 5301. Prerequisite or concurrent enrollment: PHARM 5231.

PHARM 5753 TOXICOLOGY
Three hours lecture. An introduction to the general principles of toxicology focusing on organ systems response to toxic chemicals; classes of toxic compounds including drugs, industrial chemicals, heavy metals, pesticides, food additives, natural toxins and venoms, and environmental pollutants; and clinical assessment and treatment of poisoning and toxicant exposure. Prerequisite: PHARM 4522, PHARM 4622, PHARM 4644.

PHARM 5812 HEALTH ISSUES II
Two hours lecture. A continuation of the Health Issues series, intended to promote awareness of emerging topics and concepts in pharmacy, medicine, and public health. This course will review the basic concepts of pharmacognosy and focus on current topics in the areas of alternative and complementary medicine, nutrition, disease prevention, and wellness. Prerequisite: PHARM 4712.
PHARM 5822 HEALTH ISSUES III
Two hours lecture. The Health Issues courses are intended to promote awareness of emerging topics and concepts in pharmacy, medicine, and public health. This course will focus on principles of pharmacogenomics and contemporary issues in personalized medicine including drug efficacy and medication safety. Prerequisite: PHARM 5812.

PHARM 5823 PHARMACY ADMINISTRATION
Three hours lecture. An introduction to basic management and administrative processes essential for pharmacy operations. The role of managed care in the delivery of health care at the local and national level is developed. The interface of pharmaceutical care delivery and managed care policy is examined. Prerequisite or concurrent enrollment: PHARM 5204.

PHARM 5844 JURISPRUDENCE
Four hours lecture. A survey of federal and state laws and regulations which pertain to the practice of pharmacy. Prerequisite or concurrent enrollment: PHARM 5234.

PHARM 5853 PHARMACY MANAGEMENT & MARKETING
Three hours lecture. A study of the basic principles of management with an emphasis on financial accounting, operations analysis, and human resources. The use of basic marketing principles for product acquisition and promotion of pharmaceutical care services is developed. Prerequisite or concurrent enrollment: PHARM 5204.

PHARM 5914 and 5924 ADVANCED PHARMACY PRACTICE EXPERIENCE - COMMUNITY A & B
Each is a full-time monthly practicum conducted in an independent and/or chain community pharmacy. Instruction and supervised pharmacy practice training is provided by an instructor in off-campus affiliated teaching community pharmacies. The advanced student applies the knowledge and skills from previous coursework and training to demonstrate pharmaceutical care in ambulatory patients. Prerequisites: Fourth professional year standing.

PHARM 5934 ADVANCED PHARMACY PRACTICE - INSTITUTIONAL
A full-time monthly practicum conducted in an institutional setting. The advanced student must demonstrate the application of pharmaceutical care to patients throughout the rotation experience. This is accomplished by Socratic faculty teaching utilizing low student to faculty ratios and intense problem solving activities. Prerequisite: Fourth professional year standing.

PHARM 5944 and 5984 ADVANCED PHARMACY PRACTICE EXPERIENCE - SELECTIVE A & B
Each is a full-time monthly practicum conducted at a pharmacy practice site. Instruction and supervised pharmacy practice training is provided by an instructor at a pharmacy practice site. The advanced student selects from a variety of optional pharmacy practice experiences including medicine and/or home health care, consulting practice, nuclear pharmacy, Indian health services, specialty compounding pharmacies, managed care, administrative rotations, additional community or institutional rotations. Prerequisite: Fourth professional year standing.

PHARM 5954, 5964 and 5974 ADVANCED PHARMACY PRACTICE EXPERIENCE - MEDICINE SELECTIVE A, MEDICINE SELECTIVE B, & GENERAL MEDICINE
Each is a full-time monthly practicum with supervised instruction in a pharmacy setting, including ambulatory care. The advanced student must demonstrate the application of pharmaceutical care to patients throughout the rotation experience. This is accomplished by Socratic faculty teaching utilizing low student to faculty ratios and intense problem solving activities. Prerequisite: Fourth professional year standing.

PHARM 5994 ADVANCED PHARMACY PRACTICE EXPERIENCE - AMBULATORY CARE
A full-time monthly practicum with supervised instruction in an ambulatory care setting. The advanced student must demonstrate the application of pharmaceutical care to patients throughout the rotation experience. This is accomplished by Socratic faculty teaching utilizing low student to faculty ratios and intense problem solving activities. Prerequisite: Fourth professional year standing.

PROFESSIONAL ELECTIVES

PHARM 4101-2 PHARMACEUTICAL RESEARCH
One-two hours credit. Under guidance and supervision by a College of Pharmacy faculty member, pharmacy students will participate in original research projects in the pharmaceutical sciences or in the area of pharmacotherapeutics. Prerequisites: Second year standing; consent of instructor.

PHARM 4602 SUBSTANCES OF ABUSE & ADDICTION
A study of misused or abused substances, including addiction theories and mechanisms of addictive behaviors, the action and consequences of substance abuse, and the methods used by society and the medical establishment to treat addictive behaviors. Open to pharmacy, upper division, and graduate non-pharmacy students.

PHARM 4702 CULTURAL COMPETENCY FOR PATIENT-CENTERED CARE
Two hour lecture. An elective course that examines historical and sociological ideas related to the development of cultural competence. A culturally competent healthcare provider, who fully understands the patient’s values, preferences, and beliefs about health and wellness, is essential to providing patient-centered care. Culturally competent healthcare providers are self-aware, respectful of others, lifelong learners and provide high quality care to all. Prerequisite: Second professional year standing or permission of the instructor.

PHARM 4732 PHARMACY CASE STUDIES
Two hour lecture. Using an active-learning approach, pharmacy students will evaluate patient information in both community and health-system pharmacy scenarios, identify clinically significant problems, and consult appropriate guidelines from the medical literature to determine solutions to patient problems. The course serves as an introduction to case study analysis for students transitioning to pharmacotherapy course work, but also provides advanced students additional opportunities to apply knowledge and to practice case study skills. Prerequisites: PHARM 4612, PHARM 4634 or concurrent enrollment.

PHARM 4811-2 SPECIAL PROBLEMS IN PHARMACY ADMINISTRATION
One-two hours credit. Seminar/discussion/special projects format of current topics and research in pharmacy administration. Prerequisite: First professional year standing.

PHARM 4832 HEALTH CARE SYSTEMS
Two hour lecture. An introduction to the health care system of the United States and how the pharmacist interrelates to this system. The organizational structure of the health care system is examined and the role of government in changing the organizational structure is emphasized. Prerequisite: First professional year standing.

PHARM 4842 LEGAL ISSUES IMPACTING PHARMACISTS
Two hour lecture. An elective course that addresses and prepares pharmacy students for many of the challenges facing future leadership and management in the profession. Students will be involved in case discussions, mock events, and a review of laws involving pharmacy employers/employees, business and personal life. Prerequisite: Second professional year standing or permission of the instructor.

PHARM 4852 ISSUES IN BUYING AND SELLING A PHARMACY
Two hour lecture. An elective course that addresses issues when buying and/or selling a pharmacy and prepares the pharmacy student for many of the challenges expected when involved in such a transaction. Students will be exposed to all aspects of such transactions including asset transfer, contract review, financing, and development of the business plan. Prerequisite: Second professional year standing or permission of the instructor.
PHARM 5172 CURRENT CONCEPTS IN PHARMACEUTICS
An elective course dealing with current topics in pharmaceutics. 
Prerequisite: PHARM 4012 or consent of instructor.

PHARM 5312 POST GRADUATE PREPARATION
Two-hour lecture/online. An elective course focused on professional preparation for students interested in pursuing residency or other postgraduate opportunities. Focus on development of curriculum vitae, letters of intent, personal statements, and presentation and interviewing skills. Development of other pertinent professional attitudes will be covered. Involvement in pharmacy organizations, volunteerism, and student scholarship will also be discussed and encouraged. There is a service learning requirement as well as encouraged attendance of two state or national pharmacy organizational meetings during the semester. 
Prerequisite: Third professional year standing and instructor approval.

PHARM 5342 CURRENT CONCEPTS IN PHARMACY PRACTICE
An elective course dealing with current topics in pharmacy practice. 
Prerequisite: PHARM 4323 or consent of instructor.

PHARM 5422 CURRENT CONCEPTS IN MEDICINAL CHEMISTRY
Two hour lecture. An elective course dealing with new processes and techniques in medicinal chemistry and drug discovery. After giving a brief introduction about different processes in drug discovery, some important drug discovery cases will be studied. 
Prerequisite: PHARM 3405, PHARM 4512 or permission of instructor.

PHARM 5712 VETERINARY PHARMACOLOGY
Two hour lecture. An elective course dealing with the overview of drugs and/or drug use that is unique to veterinary practice as well as discussion of the pathophysiology and pharmacology of veterinary diseases. 
Prerequisite or concurrent enrollment: PHARM 4655.

PHARM 5772 CURRENT CONCEPTS IN PHARMACOLOGY
An elective course dealing with current topics in pharmacology. 
Prerequisite: PHARM 4634 or permission of the instructor.

PHARM 5802 CURRENT TOPICS IN PHARMACY ADMINISTRATION
Two hour lecture. The exploration of current administrative principles which affect the practice of retail, home health and institutional pharmacy with the objective of orienting the student to the latest developments in areas of risk management, business enhancement and management theory. 
Prerequisite: Second professional year standing or permission of the instructor.

ALTERNATIVE PROFESSIONAL ELECTIVES

SPAN 3023 SPANISH FOR HEALTHCARE PROFESSIONALS
Course designed to develop language skills with a focus on listening and speaking to provide vocabulary and conversational practice in realistic healthcare, pharmacy and/or emergency situations with emphasis on real-life vocabulary, Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text. F, S

PHARMACY 5171 CURRENT CONCEPTS IN PHARMACEUTICS
An elective course dealing with current topics in pharmaceutics.

PHARMACY 5302 CURRENT TOPICS IN PHARMACY ADMINISTRATION
Two hour lecture. The exploration of current administrative principles which affect the practice of retail, home health and institutional pharmacy with the objective of orienting the student to the latest developments in areas of risk management, business enhancement and management theory. 
Prerequisite: Second professional year standing or permission of the instructor.

PHARMACY 5342 CURRENT CONCEPTS IN PHARMACY PRACTICE
An elective course dealing with current topics in pharmacy practice.

PHARMACY 5422 CURRENT CONCEPTS IN MEDICINAL CHEMISTRY
Two hour lecture. An elective course dealing with new processes and techniques in medicinal chemistry and drug discovery. After giving a brief introduction about different processes in drug discovery, some important drug discovery cases will be studied. 
Prerequisite: PHARM 3405, PHARM 4512 or permission of instructor.

PHARMACY 5712 VETERINARY PHARMACOLOGY
Two hour lecture. An elective course dealing with the overview of drugs and/or drug use that is unique to veterinary practice as well as discussion of the pathophysiology and pharmacology of veterinary diseases. 
Prerequisite or concurrent enrollment: PHARM 4655.

PHARMACY 5772 CURRENT CONCEPTS IN PHARMACOLOGY
An elective course dealing with current topics in pharmacology. 
Prerequisite: PHARM 4634 or permission of the instructor.

PHARMACY 5802 CURRENT TOPICS IN PHARMACY ADMINISTRATION
Two hour lecture. The exploration of current administrative principles which affect the practice of retail, home health and institutional pharmacy with the objective of orienting the student to the latest developments in areas of risk management, business enhancement and management theory. 
Prerequisite: Second professional year standing or permission of the instructor.

PHARMACY 5902 FINANCIAL MANAGEMENT FOR THE PHARMACIST
Two hour lecture. A study of financial planning, investment analysis, tax analysis, budgeting, and other aspects of personal and business finances. 
Prerequisites: Second professional year standing or permission of the instructor.

PROFESSIONAL ELECTIVES

PharmD/MBA Dual Program Students Only

Successful completion of any two of the following ten business courses will meet the professional elective requirements for the doctor of pharmacy program.

ACCTG 5633 FINANCIAL ACCTG FOR DECISION MAKING
MNGMT 5433 ADV HUMAN RESOURCE MANAGEMENT

ECONO 5653 ADVANCED MANAGERIAL ECONOMICS
MNGMT 5533 MNGMT & ORGANIZATIONAL BEHAVIOR

ECONO 5763 ADVANCED BUSINESS STATISTICS
MNGMT 5643 ADV QUANT METHODS & OPER ANALYSIS

FINAN 5263 ADVANCED FINANCIAL MANAGEMENT
MNGMT 5923 BUSINESS STRATEGY & POLICY

MNGMT 5xx3 MANAGEMENT ELECTIVE
MRKTG 5623 MARKETING STRATEGY

LEADERSHIP DEVELOPMENT PROGRAM ELECTIVE COURSES

PHARM 5432 LEADING TRANSFORMATIONAL CHANGE IN PHARMACY
Three-hour lecture/group work. Innovation is a creative process that allows individuals within an organization the freedom to think beyond the current boundaries of practice. Leading Impactful Innovation is designed to develop scholar practitioners that have knowledge of the principles of innovation and an understanding of the way that leaders influence the development of a culture open to the risks necessary for impactful innovation. Emphasis is placed on application using systems theory and an evidence based approach to innovation in the field of pharmacy. 
Prerequisite: PHARM 5432, Instructor approval.

PHARM 5443 LEADING IMPACTFUL INNOVATION IN PHARMACY
Three-hour lecture/group work. Innovation is a creative process that allows individuals within an organization the freedom to think beyond the current boundaries of practice. Leading Impactful Innovation is designed to develop scholar practitioners that have knowledge of the principles of innovation and an understanding of the way that leaders influence the development of a culture open to the risks necessary for impactful innovation. Emphasis is placed on application using systems theory and an evidence based approach to innovation in the field of pharmacy. 
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Prerequisite: PHARM 5432, Instructor approval.

PHARM 5443 LEADING IMPACTFUL INNOVATION IN PHARMACY
Three-hour lecture/group work. Innovation is a creative process that allows individuals within an organization the freedom to think beyond the current boundaries of practice. Leading Impactful Innovation is designed to develop scholar practitioners that have knowledge of the principles of innovation and an understanding of the way that leaders influence the development of a culture open to the risks necessary for impactful innovation. Emphasis is placed on application using systems theory and an evidence based approach to innovation in the field of pharmacy. 
Prerequisite: PHARM 5432, Instructor approval.

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Three-hour lecture/group work. Innovation is a creative process that allows individuals within an organization the freedom to think beyond the current boundaries of practice. Leading Impactful Innovation is designed to develop scholar practitioners that have knowledge of the principles of innovation and an understanding of the way that leaders influence the development of a culture open to the risks necessary for impactful innovation. Emphasis is placed on application using systems theory and an evidence based approach to innovation in the field of pharmacy. 
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Prerequisite: PHARM 5432, Instructor approval.
PHARM 5454 QUALITY OUTCOME EVALUATION IN PHARMACY
Four-hour lecture/group work. This course produces scholar practitioners that understand the challenges associated with leading a pharmacy/health care organization to overcome the quality gap. Students review quality from the organizational and patient/customer perspective focusing on improvement of process, procedure, and structure to address quality as reliability and excellence. Students connect the process of continuous quality improvement within the organization to the need to address outcome measures. Prerequisite: PHARM 5443, Instructor approval.
COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES
(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer,
D = Classes offered upon Demand, O = Odd years, E = Even years)

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

DEPARTMENT OF EDUCATION

Early Childhood

ECED 4163 PERCEPTUAL DEVELOPMENT IN INFANTS AND TODDLERS
Study of hereditary and environmental determinants of perceptual development of infants and toddlers and their effects on the learning process of children with and without disabilities. Prerequisite: Admission to Teacher Education Program. S

ECED 4423 PLAY METHODS AND MATERIALS IN PRESCHOOL AND KINDERGARTEN
A survey of the use of play as a learning and socializing process. Special emphasis will be given to topics such as theories, types, stages of play, and play materials and equipment in relationship to various play environments and therapies. Prerequisite: Admission to Teacher Education Program. F

ECED 4463 THE EXPRESSIVE ARTS
Development of concepts and methods in art, music and literature appropriate for early childhood education. Prerequisite: Admission to Teacher Education Program. F

ECED 4483 EXPLORING THE CHILD'S WORLD
Development of concepts and methods in math, science and social studies appropriate for early childhood education. Prerequisite: Admission to Teacher Education Program. S

ECED 4533 GUIDANCE OF THE PRESCHOOL CHILD
An introduction to developmentally appropriate practice in the guidance of young children; emphasis on developmental needs, behavior of preschool children, methods and principles of guidance. Two hours laboratory participation per week. Prerequisite: Admission to Teacher Education Program. S

ECED 4583 EARLY CHILDHOOD AND KINDERGARTEN EDUCATION
A survey of current practices, programs, and innovations in early childhood education. Emphasis is placed upon the young child's cognitive, social, emotional, and physical development. Prerequisite: Admission to Teacher Education Program and PSYCH 3413. F, SU

ECED 4612 PRACTICUM IN EARLY CHILDHOOD EDUCATION
Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation; one hour conference.) Prerequisite: Admission to Teacher Education Program. Corequisite: ECED 4612L.

Educational Foundations

EDUC 2113 FOUNDATIONS OF EDUCATION
Introduction to the historical, philosophical, and social foundations of education and their relationships to teaching as a profession. Current issues in education are also introduced and discussed. Laboratory experiences as an observer/aid in the public schools and procedures for admission to teacher education are included. F, S, SU

EDUC 3321 MULTICULTURAL/SPECIAL POPULATION
Study of multicultural education and how teachers work with students of different backgrounds and cultures. Also will study concepts of inclusion, mainstreaming, and least restrictive environment, for students who have been identified as handicapped. Prerequisite: Admission to Teacher Education Program, the Pre-professional semester, and concurrent enrollment in Student Teaching and the Four Week Block sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S

EDUC 4021 CONTEMPORARY ISSUES IN EDUCATION
A four-week block course required of all students seeking a degree or certification in Teacher Education. The class provides candidates with essential knowledge, skills, and resources needed during the student teaching block experience. The class also includes two days of observation in the assigned cooperating classroom and one field trip to diversely populated school sites. Prerequisites: Admission to Teacher Education Program, the Pre-Professional Semester, and concurrent enrollment in Student Teaching and the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S

EDUC 4041 CLASSROOM MANAGEMENT
Students learn to effectively manage attention, momentum, discipline, space, time, and routines in the classroom in order to facilitate optimal student learning. Students learn to understand and apply principles of motivation to enhance student achievement through knowledge of the role of expectations, climate, and personal relationship building. Students develop a personal management system tailored to their individual philosophies and personalities as well as to the needs and traits of students and the social realities of schools and communities. Prerequisites: Admission to Teacher Education Program, the Pre-professional semester, and concurrent enrollment in Student Teaching and the Four Week Block sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S

Elementary Education

ELEM 3453 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL
A course considering the scope and nature of an exemplary program of instruction in the language arts. Prerequisite: Admission to Teacher Education Program. F, S, SU

ELEM 3513 CONTENT, METHODS AND MATERIALS IN MATHEMATICS FOR ELEMENTARY TEACHERS
Study of the scope of mathematics in the elementary school with emphasis on developmental learning, methods and materials for teaching. Prerequisite: Admission to Teacher Education Program. F, S, SU

ELEM 3522 CONTENT, METHODS AND MATERIALS IN SOCIAL STUDIES FOR ELEMENTARY TEACHERS
Emphasis is placed upon organization of a unified and correlated social studies program and the development of resource units. Prerequisite: Admission to Teacher Education Program. F, S, SU

ELEM 4222 PHONICS AND PENMANSHIP
A study of the phonetic elements in the English language, in addition to instruction in cursive and manuscript writing. Prerequisite: Admission to Teacher Education Program. F, S, SU

ELEM 4352 TEACHING SCIENCE IN ELEMENTARY SCHOOLS
A course that emphasizes the inquiry-discovery approach to the teaching of elementary science. Course content includes: the structure and processes of science; thinking skills; intellectual development of children; organizing science activities and curricula; and teacher responsibilities. Prerequisite: Admission to Teacher Education Program.

ELEM 4463 CHILDREN'S LITERATURE
Survey of appropriate children's literature and a study of interests and abilities governing the choice of literature for K-8 grades. Prerequisites: Admission to Teacher Education Program and RDNG 3423. F, S, SU
ELEM 4613 EDUCATIONAL TESTS & MEASUREMENTS
Study of assessment procedures to improve the teaching-learning process through the utilization of norm-referenced and criterion-referenced measures. Students construct, administer, score, and/or interpret tests. Prerequisite: Admission to Teacher Education Program. F, S, SU

ELEM 4665-4765 STUDENT TEACHING IN THE ELEMENTARY SCHOOL
Directed observation, participation and student teaching under the guidance of an assigned elementary classroom teacher. Prerequisites: Admission to Teacher Education Program; the Pre-Professional Semester; and concurrent enrollment in the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S

ELEM 4833 PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOL
An in-depth study of the elementary school and its roles/purposes in American society with major emphasis toward subject integration, content delivery techniques and overall responsibilities of elementary teachers. Prerequisite: Admission to Teacher Education Program. F, S, SU

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Library Media
LIBED 3423 MEDIA AND TECHNOLOGY
A study of the use of computers and other media equipment in an instructional setting. The main vehicle of instruction will be modular and include the procedures to produce instructional materials using Microsoft Office Application Programs. Integration of the Internet with Microsoft Office is an integral part of the instruction. F, S, SU

Reading
RDNG 0122 IMPROVEMENT OF READING
Designed for self-improvement in basic reading skills. Designated materials are utilized for correction of reading skill deficiencies, vocabulary development and phonetic analysis. F, S

RDNG 3423 THE TEACHING OF READING I
Basic principles of reading instruction; techniques and materials for teaching reading; a study of readiness, word recognition skills, comprehension, critical reading, study skills, and vocabulary development. F, S, SU

RDNG 3432 THE TEACHING OF READING II
A continuation of RDNG 3423, with emphasis on word recognition, vocabulary, and comprehension. Prerequisites: Admission to Teacher Education Program and RDNG 3423. F, S, SU

RDNG 4443 DIAGNOSTIC PRACTICES IN TEACHING OF READING
Practice course with actual reading disability cases with whom the techniques of diagnosis and treatment of reading difficulties are used. Prerequisites: Admission to Teacher Education Program and RDNG 3423, RDNG 3432. F, S, SU

Secondary Education
SECED 4813 EDUCATIONAL TESTS/MEASUREMENTS
Use of test instruments in evaluation of the secondary student. Students select and interpret norm-referenced tests; construct and interpret criterion-referenced tests. Prerequisite: Admission to Teacher Education Program. F, S, SU

SECED 4823 PRINCIPLES OF TEACHING IN THE SECONDARY SCHOOLS
An in-depth study of the secondary school and its roles/purposes in American society with major emphasis toward subject integration, content delivery techniques, and overall responsibilities of secondary teachers. Prerequisite: Admission to Teacher Education Program. F, S, SU

SECED 4843 TEACHER’S COURSE IN SCIENCE
Methods, problems, and resources in teaching science in the secondary school. Problems and topics in the middle school and high school are presented. Required for teacher certification in science areas. Prerequisite: Admission to Teacher Education Program. F

SECED 4865-4965 STUDENT TEACHING IN THE SECONDARY SCHOOL
Directed observation, participation, and student teaching in the major content area under the guidance of an assigned secondary classroom teacher. Prerequisites: Admission to Teacher Education Program, the Pre-Professional Semester, and concurrent enrollment in the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S

Special Education
SPCED 3132 EXCEPTIONAL CHILDREN
An overview of the development of special education, with a major focus on the intellectual, psycho-social behavior, educational need and programs for exceptional children and adolescents. F, S, SU

SPCED 3213 FOUNDATIONS OF MILD/MODERATE DISABILITIES
A comprehensive overview of characteristics, identification, and placement of students with mild and moderate disabilities. The course offers a study of causative-correlation factors and the effect they have on students throughout the various developmental stages. The course involves various educational trends and issues facing students, parents, and teachers that fall under this category. Prerequisite: Admission to Teacher Education Program. S, SU

SPCED 3312 PROCEDURES FOR TEACHING MILD/MODERATE INTELLECTUAL DISABILITIES
The course offers a study and development of teaching techniques, scientific-based instructional strategies and curriculum models for teaching preschool to adult students with mild/moderate intellectual disabilities. Note: Requirement of 16 hours of supervised field experience. Prerequisite: SPCED 3213 and Admission to Teacher Education Program. S

SPCED 3432 ASSESSMENT, DIAGNOSIS/EVALUATION OF EXCEPTIONAL CHILD
Study of formal and informal assessment procedures appropriate for the evaluation of students of all ages with exceptional learning needs. Students construct, administer, score and/or interpret norm-referenced tests and informal assessment procedures. Response to intervention and alternative testing criteria is emphasized. Prerequisite: Admission to the Teacher Education Program. F

SPCED 3433 ASSESSMENT OF EXCEPTIONAL INDIVIDUALS
Study of formal and informal assessment procedures appropriate for the evaluation of all ages with special learning needs. Students construct, administer, score and/or interpret norm-referenced tests, and informal assessment procedures. Prerequisite: Admission to Teacher Education Program. F, SU

SPCED 4323 PROCEDURES FOR TEACHING MILD/MODERATE EMOTIONAL/BEHAVIORAL DISORDERS
Scientifically and research-based strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of students with exceptional learning needs in a variety of classroom settings. Curriculum covers Manifestation Determinations, Functional Behavior Assessments, Behavior Intervention Plans, and IEP goals for students in a variety of classroom settings. Note: This course includes a requirement of 16 hours of supervised field experience. Prerequisite: Admission to Teacher Education Program. SU

SPCED 4362 SEMINAR IN LEGAL & ETHICAL PRACTICES
Study of Special Education law as it affects teachers and professionals in the public school. Special emphasis is placed on policies and procedures, Manifestation Determinations, Alternate placements, Individual Education Planning (IEP) and due process. This course is team taught by administration and special education faculty. Prerequisite: Admission to Teacher Education Program. F
SPCED 4422 PROCEDURES FOR TEACHING AUTISM SPECTRUM DISORDERS
A comprehensive overview of the characteristics, identification, and placement of students with Autism Spectrum Disorders. The course offers a study of causative-correlation factors and the effect they have on the students throughout the various developmental stages. The course involves scientific-based teaching strategies and techniques which includes various educational trends and issues facing students, families, and teachers. Prerequisite: Admission to the Teacher Education Program. F

SPCED 4623 PROCEDURES FOR TEACHING MILD/MODERATE LEARNING DISABILITIES
Study and development of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate learning disabilities in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. Prerequisite: Admission to Teacher Education Program. F

SPCED 4821 PRACTICUM – MILD OR MODERATE DISABILITIES
Supervised experiences in designing and implementing educational, recreational, and leisure time activities. Prerequisite: Admission to Teacher Education Program. F

SPCED 4862 COLLABORATION AND PLANNING IN SPECIAL EDUCATION
Study of curriculum issues and instructional strategies for teaching students with exceptional learning needs in a variety of classroom settings. Emphasis is placed on the understanding of Oklahoma state special education policies and procedures and completion of state forms. Prerequisite: SPED-3213 and Admission to Teacher Education Program. S

SPCED 4872 TRANSITIONAL PLANNING AND TEACHING AT THE SECONDARY LEVEL
Study of scientific research-based educational strategies and curriculum models for secondary students with exceptional learning needs and transitional programs from birth to adulthood. Introduction to the components and development of the Transition Service Plan component of the Individualized Education Program. Prerequisite: Admission to Teacher Education Program. SU

DEPARTMENT OF KINESIOLOGY

KINES 1133 WELLNESS CONCEPTS AND EXERCISE APPLICATIONS
The course is designed to provide the student with a philosophy of living that encourages a higher quality of life and a state of well-being. Lifestyle choices are identified and explained in regard to proper exercise, weight management, stress management, substance use, sexually transmitted diseases, health care, nutrition, cardiovascular disease prevention, and cancer prevention. Assessment techniques and development of individual prescriptions in the areas of muscular strength, muscular flexibility, cardiovascular endurance, body composition, and nutrition are studied. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. F, S, SU

KINES 1153 NUTRITION
A study of the basic principles of nutrition including dietary standards, food habits, nutrients, metabolism, special diets, food fads, and dietary needs of all age groups. F, SU

KINES 1161 WELLNESS CONCEPTS/EXERCISE APPLICATIONS LAB
Designed to develop assessment techniques and to develop individual prescriptions in the areas of muscular strength, muscular flexibility, cardiovascular endurance, body composition, and nutrition. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. D

KINES 1201 ELEMENTARY SWIMMING
Instruction in the basic strokes: American crawl, elementary back, side stroke, back crawl, and breast stroke. For non-swimmers, adjustment to water, floating, and treading. D

KINES 1351 ELEMENTARY BOWLING
The fundamental skills of bowling including instruction in stance, approach, delivery, aiming, and follow-through. Practice in etiquette, scoring, terminology, and forms of competition. F, S

KINES 1391 CROSS COUNTRY
Prerequisite: Varsity participation. F

KINES 1411 ELEMENTARY GOLF
The fundamental skills of golf including instruction in stance, strokes, clubs, rules, terminology, etiquette, scoring, etc. D

KINES 1471 ELEMENTARY TENNIS
Basic instruction in the theory and practice of skills, rules, terminology, etiquette, and game strategy for singles and doubles play. D

KINES 1511 PHYSICAL FITNESS
Theory and practice of aerobic and weight training activities with learning experiences designed to promote individual fitness. F

KINES 1621 SOFTBALL
Prerequisite: Participation in varsity intercollegiate softball. F

KINES 1631 BASEBALL
Prerequisite: Varsity participation. F, S

KINES 1661 BASKETBALL
Prerequisite: Varsity participation. F, S

KINES 1681 VOLLEYBALL
Prerequisite: Varsity participation. F, S

KINES 1691 FOOTBALL
Prerequisite: Varsity participation. F, S

KINES 1711 SOCCER
Prerequisite: Varsity participation. F, S

KINES 1751 TEAM SPORTS
Designed more for women students. Theory and practice of soccer, volleyball, and selected team sports; basic skills, rules, strategy and game play. D

KINES 1781 TEAM SPORTS
Instruction and practice in the following team sports: Basketball, softball, and track and field. D

KINES 1811 INDIVIDUAL SPORTS
Instruction and practice of fundamental skills of badminton, racketball, tennis, and track and field; knowledge of rules, techniques and strategies associated with play. D

KINES 1932 TECHNIQUES AS APPLIED TO GYMNASTICS, FITNES, & AQUATICS
A study of basic skills, techniques, practices, and methodologies of gymnastics, aquatics, and fitness. The gymnastics component includes work in tumbling and on the various apparatus. The aquatic component will stress progressive learning techniques and aquatic skills of necessity. The fitness component will focus on techniques for attainment as well as assessment of wellness/fitness criteria. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors. F, S

KINES 1942 TECHNIQUES AS APPLIED TO INDIVIDUAL SPORTS
A study of basic skills, techniques and practices utilized in various individual sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. F, S
KINES 1952 TECHNIQUES AS APPLIED TO TEAM SPORTS
A study of basic skills, techniques and practices utilized in various team sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. F, S

KINES 2111 RACQUETBALL
Designed for both male and female participants. Basic instruction in skills, techniques and strategies essential for play in the sport. D

KINES 2141 RODEO
Prerequisite: Varsity participation. F, S

KINES 2151 WALKING FITNESS
Learn the basic skills for walking. Learn the proper warm-up and cool down procedures. Work on self-assessment of your personal fitness. Monitor your walking with a pedometer. S

KINES 2212 FIRST AID
Knowledge in accident prevention, emergency treatment, and care of injuries and illness. American Red Cross standards. F, S, SU

KINES 2222 INTRODUCTION TO KINESIOLOGY
An introduction to the discipline. The course includes the study of program organization and management; history and philosophy; trends and issues; career potential and planning; and an introduction to physical education, health, recreation and exercise science. F, S

KINES 2242 SPORTS OFFICIATING
Designed to provide an exposure in both women’s and men’s sport officiating. The course will provide theory and practice in officiating sports like softball, flag football, basketball, volleyball, and other appropriate women’s and men’s intramural sports. Practical experience in officiating women’s and men’s intramurals. F, S

KINES 2502 CARE AND PREVENTION OF ATHLETIC INJURIES
A study of preventive measures in the athletic and physical education programs. F, S, SU

KINES 2601 PARTICIPATION IN INTERCOLLEGIATE SPORTS
Designed for students participating in varsity sports: football, basketball, baseball, track, tennis, golf, softball, rodeo, and soccer. Prerequisite: Approval by the coach of the respective sport. S

KINES 3133 TEACHING HEALTH IN PUBLIC SCHOOLS
A course designed to study the science of personal and community health, the psychology of teaching health elements of child growth and development and adolescent health problems; planning and organizing for teaching mental health, nutrition, disease control and program appraisal. Understanding the role of health education in the total educational effort. S

KINES 3333 SAFETY EDUCATION
Safety Education is a course of study designed to provide safety information of a general nature appropriate to today's living. A knowledge base is developed in the areas of home safety, driver safety, job safety, recreation safety, and skill development as well as coping techniques for each. D

KINES 3353 HEALTH AND AGING
This course is an interdisciplinary introductory course in geriatrics which examines the processes of normal human aging as well as the common diseases and disorders that affect older persons. This course is designed to provide upper division undergraduate students with an overview of critical issues related to aging and health. Topics covered include: physiology of aging, health behaviors, age-related diseases, managing illness, medical care, and death and dying. Particular attention is given to preventive strategies that maximize function to help more individuals achieve a healthy old age. F

KINES 3393 NUTRITION FOR CHILDREN
A study of the basic knowledge of nutrition with emphasis on the nutritional needs of children and ways of implementing nutrition education. Health and fitness related games and activities appropriate for elementary and early childhood levels will also be addressed. S, SU

KINES 3443 KINESIOLOGY AND ANATOMY
The study of anatomy, osteology and the muscular system which affect and/or are affected by movement and sports related performance. F, S, SU

KINES 3553 METHODS AND MATERIALS IN ELEMENTARY HEALTH, PHYSICAL EDUCATION & RECREATION
Theory and practice in teaching physical education activities at the elementary level with emphasis on methods, materials, planning, and conducting elementary programs. Health-related subject matter appropriate for elementary level will also be addressed. Prerequisite: Admission to Teacher Education Program. F

KINES 3662 EXERCISE PROGRAMMING FOR SPECIAL POPULATIONS
This course is designed to increase the understanding in the areas of exercise and special populations. This course will provide current information regarding exercise programming, fitness assessment and evaluation. The student will learn to modify exercise for individuals and groups based on age, medical conditions, and special needs. The areas covered will include but are not limited to: coronary heart disease, diabetes, asthma, obesity, osteoporosis, arthritis, pregnancy, and physically and mentally challenged. F

KINES 4001-4 INDIVIDUAL STUDY IN HEALTH, PHYSICAL EDUCATION AND RECREATION (TOPIC)
Independent study of specified topic in health, physical education, and recreation for undergraduate students. Credit one to four semester hours. D

KINES 4011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION
Group study of specified topic for health, physical education and recreation for the undergraduate student. Credit one to four semester hours. D

KINES 4052 SOCIOLOGY OF SPORTS
Study of sports in society as they relate to: Competition at all levels, sports for youngsters, minorities in sports and future of sports. S

KINES 4063 LEGAL ASPECTS IN PHYSICAL EDUCATION, RECREATION, AND ATHLETICS
An in depth analysis and study of legal liability for the practitioner as it relates to physical education, recreation and athletics. The course presents an overview of legal issues, duties and liability as they relate to student rights, teacher rights, and conduct of programs, as well as causes and prevention of accidents which could result in liability suits. F

KINES 4073 EVALUATION IN PHYSICAL EDUCATION
Knowledge and principles in techniques of evaluation and measurement and test construction in physical education. S

KINES 4113 ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION & RECREATION
A study of the organization and administration of physical education programs in the public schools, colleges, and with special populations. D

KINES 4122 ORGANIZATION AND ADMINISTRATION OF ATHLETICS
A study of the organization and administration of athletic programs for the public schools and colleges. F

KINES 4212 WEIGHT AND CIRCUIT TRAINING
This course is designed to provide the student with the knowledge, organization and technique to create, maintain and adjust weight training programs in individual and team settings. The student will also be asked to evaluate workout facilities, create total programs for individuals and create sport specific/goal specific programs for themselves, individuals and teams.
KINES 4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS
A study of the content and conduct of intramural sports. Practical experience. D

KINES 4234 EXERCISE PHYSIOLOGY
A study of conditions that are related to the learning of movement-oriented skills, improvement of motor performance, and physiological effects of exercise. F, S

KINES 4243 THERAPEUTIC AND PRESCRIPTIVE PHYSICAL EDUCATION
A course designed to increase knowledge and understanding of the uniqueness of individuals with special needs. Emphasis in modifying physical activities for exceptional children; motor testing; analyses of skill development and principles in techniques of evaluation/assessment in physical education. F

KINES 4251 INTERMEDIATE RODEO
Varsity rodeo participation. F, S

KINES 4262 MOTOR LEARNING
A study of the body of knowledge underlying the development of successful instruction and training strategies critical for skill acquisition. Motor learning issues are viewed from a behavioral perspective with emphasis on application and performance. S

KINES 4283 PRINCIPLES OF COACHING
This course is designed for the coaching profession both on and off the court. It entails coaching philosophy, motivational and communication techniques, team management, and much more. This course is for future coaches in the public or private school, club teams, municipal parks (youth sports) and other sports areas. S

KINES 4333 PRINCIPLES AND HISTORY OF HEALTH AND PHYSICAL EDUCATION
Introduction to physical education, history of physical education; concepts and principles related to biological, psychological, and sociological factors that affect development of the individual. D

KINES 4353 MOTOR DEVELOPMENT
The study of the acquisition and development of motor skills such as standing, balancing, moving, and manipulating objects as encountered in a child's environment. The further identification and study of the various developmental stages as children pass from early childhood, to middle childhood and to late childhood. D

KINES 4383 DEVELOPMENT OF PROGRAMS, FACILITIES AND MANAGEMENT
This course will incorporate the study of programs, facilities and management skills to meet the demands of working in exercise science, fitness, sports management or recreation. It will include an in-depth look into areas such as program and facility design, budget issues, personnel, etc. S

KINES 4443 METHODS OF TEACHING SAFETY EDUCATION
Methods and materials in the conduct of public school safety program. D

KINES 4533 CONSUMER HEALTH EDUCATION
A course designed to identify facts and to establish knowledge important to the consumer of today regarding products such as foods, drugs, services, facilities, practices and health information in order to make educated decisions in our everyday lives. S

KINES 4541 CAPSTONE EXPERIENCE IN HPE
The Capstone Experience in Health and Physical Education course is designed to be a capstone experience for the HPE major in Teacher Education. The course is the academic crowning point for the major. Information is offered to the student regarding entry into the teaching professional semester and the profession. State comprehensive testing and information is also covered. Additionally, opportunities in the profession and the professional application of the knowledge they have acquired are addressed. Prerequisite: Admission to Teacher Education Program. Corequisite: KINES 4553. F

KINES 4553 TEACHERS COURSE IN HEALTH AND PHYSICAL EDUCATION
Problems, methods, and materials for teaching physical education in grades K-12. Prerequisite: Admission to Teacher Education Program. Corequisite: KINES 4541. F

KINES 4802 THEORY OF COACHING FOOTBALL
Designed more for male students. Knowledge and preparation in techniques and methods of coaching football. F

KINES 4832 THEORY OF COACHING BASKETBALL
Fundamentals and techniques applied to coaching basketball. F, S

KINES 4842 THEORY OF COACHING WOMEN'S BASKETBALL
Fundamentals and techniques applied to coaching women's basketball. D

KINES 4862 THEORY OF COACHING BASEBALL
Knowledge and preparation in techniques and methods applied to coaching baseball. S

KINES 4873 CURRICULUM CONSTRUCTION IN HEALTH, PHYSICAL EDUCATION AND RECREATION
A study of the methodology of developing curriculum materials in health, physical education and recreation. D

KINES 4883 EXERCISE PRESCRIPTION AND TESTING
This course is designed to give the student an introduction to field and laboratory tests used to assess physical fitness components as well as the utilization of principles of exercise prescription. The student will develop the knowledge and skills necessary to design exercise prescription programs for apparently healthy individuals as well as individuals who have a cardiac, pulmonary or metabolic condition. Prerequisite: KINES 4234. S

KINES 4892 THEORY OF COACHING TRACK AND MINOR SPORTS
A study of the techniques of coaching track and minor sports. D

KINES 4995 PRACTICUM IN EXERCISE SCIENCE
A practicum provides the Exercise Science major with a field experience where the student has an opportunity for “hands on” work in one of the many avenues of Exercise Science. The goal of the professional experience is to introduce the major to practicing professionals and their respective organizations, involving 200 hours of practicum experience in Exercise Science. These experiences give the student a personal look at their future professional occupations. Their skills and knowledge are enhanced and they have an opportunity to confirm or modify their career goals. F, S, SU

KINES 4997 PRACTICUM IN EXERCISE SCIENCE
A practicum provides the Exercise Science major with a field experience where the student has an opportunity for “hands on” work in one of the many avenues of Exercise Science. The goal of the professional experience is to introduce the major to practicing professionals and their respective organizations, involving 280 hours of practicum experience in Exercise Science. These experiences give the student a personal look at their future professional occupations. Their skills and knowledge are enhanced and they have an opportunity to confirm or modify their career goals. F, S, SU

Sports Management

SPRTM 3402 CURRENT EVENTS IN RECREATION AND SPORTS MANAGEMENT
The course will be an analysis on current events in the business, finance, economy, education, athletics, (public schools, private high schools, high schools, college and intramural programs), international sports, professional sports, and any other arena in which trends are having an effect on sports in general. Special attention will be given to how these affect the perception of the sport, the rules of the sport, and the organizations. D

SPRTM 3412 EVENT SAFETY IN SPORTS AND RECREATION
This course is designed to give the student a knowledge base to develop, design and implement courses of action to ensure safe production, promotion and execution of sporting events at various facilities.
SPRTM 3503 SPORTS MANAGEMENT
Theory and practice of sports management. Topics include sports management, marketing, human resource management, contracting, and related areas. F, S, SU

SPRTM 3513 SPORTS FINANCE
The student examines the use of sport organization’s financial information for decision making. It is structured around both financial accounting and management accounting technologies. The student will concentrate on analysis of financial statements, structured analysis using internal accounting information, and budgeting and control issues for parks and recreation, collegiate athletics and professional sport. F

SPRTM 3523 LEADERSHIP IN SPORT
This course is designed to provide an examination of effective sport leadership techniques and practices. Student will examine general concepts of leadership (theories, principles, traits and skills), study examples of team bonding, create and construct exercises which will enhance team work, team interaction, or problem solving. This course is also designed to give students a practical look at the different types of leadership so the student may see how successful those types are in given situations. F, SU

SPRTM 3533 OLYMPISM AND OLYMPICS
This course is designed to give the student the basic understanding of the ideals and ideas that encompass the Olympic movement, the histories of the Modern Olympic games. The student will also be given critical thinking exercises to research the Olympic movement throughout the world. S, SU

SPRTM 4001-4 INDIVIDUAL STUDY IN SPORTS MANAGEMENT
Individual study of specified topics for Sports Management. F, S, SU

SPRTM 4122 RECREATION & SPORTS MANAGEMENT LAW
An intense study of legal issues relating to recreation and sports management. F

SPRTM 4132 RECREATION & SPORTS EMPLOYMENT LAW
An intense study of legal issues relating to employment/human resource management in parks, recreation and sports agencies. F

SPRTM 4142 ETHICS IN RECREATION AND SPORTS MANAGEMENT
The course is dedicated to the study of sports management ethics and the manner in which ethics can be applied and implemented in an individual’s personal and professional life. Ethics in sports can dictate coaching philosophies, business transactions, contract negotiations and professional relationships, and therefore is one of the key components in sport management. D

SPRTM 4152 RECREATION AND SPORTS MANAGEMENT STATISTICS
Designed to provide the student with a solid foundation in the field of statistics. The course is taught through the lens of recreation and sport management. Topics include measures of central tendency, analysis of variance, multiple regression analysis, etc. D

SPRTM 4163 SPORTS NUTRITION
This course is to equip the student with the tools necessary for counseling an athlete in the area of nutrition. Although this course is strongly sports oriented, it is also helpful to those people who want to know how to maximize the body’s movement potential through nutrition. S

SPRTM 4502 RODEO MANAGEMENT
Theory and practice of rodeo management. Includes rodeo planning, marketing, and execution. F, S

SPRTM 4513 GOLF MANAGEMENT
Theory and practice of golf course management. Special emphasis will be placed on fiscal and human resource management issues, PGA standards, marketing, and turf management practices. F, S

SPRTM 4523 SPORTS REPRESENTATION
This course is designed to give the student the basic understanding of the ideals and processes involved with representation of athletes in the four major sport arenas of MLB, NFL, NBA and NHL. This is not a certification course of any of those sports but instead a theory course as to how to proceed in representing an athlete and what pitfalls to look for when talking with representatives from teams. F, S

SPRTM 4533 SPORTS INFORMATION MANAGEMENT
Sports Information Management will provide the student with an overview of the sports information field. Topics will include marketing, fundraising, statistics, and media contact. F, S

SPRTM 4573 FITNESS PROGRAM MANAGEMENT
This course is designed to provide the student with the knowledge, organization, and techniques to create, maintain and adjust fitness programs in individual and team settings. The student will also be asked to evaluate workout facilities, create total programs (including cardio, resistance, and nutrition) for individuals, create sport specific/goal specific programs for individuals and teams using budgetary considerations. F, S

DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

NRN 2103 WILDLAND FIRE MANAGEMENT
This course will provide the student with extensive exposures to the theory and practice of wildland fire management.

NRM 2112 ADVANCED FIREFIGHTING METHODS
This course is designed to further the student’s knowledge of portable pumps, the use of water, and the use of fireline reference tools. Prerequisite: NRM 2103.

NRM 2122 IGNITION OPERATIONS
This course provides instruction relating to the functional roles and responsibilities associated with wildland firing operations. Prerequisite: NRM 2103.

NRM 2132 FIREFIELD LEADERSHIP & ICS
Prepare student for leadership role in firefighting with a detailed look into the incident command system. Student will complete courses that are recognized by federal governmental agencies that participate in wildland fire activities. Prerequisite: NRM 2103.

NRM 2142 WILDLAND FUEL REDUCTION
This course combines classroom instruction with practical field exercises to demonstrate effective fuel reduction on wildlands. Prerequisites: NRM 2103 and PRM 2122.

NRN 2993, 2995, 2996 INTERNSHIP IN WILDLAND FIRE MANAGEMENT
Practical application devoted to serving an apprenticeship in a wildland fire management setting. Student will serve under selected wildland fire professionals in a local, state, federal or non-profit agency. Prerequisite: NRM 2103.

NRN 3112 INTRODUCTION TO PARKS AND WILDLIFE LAW ENFORCEMENT
This course provides an overview of the Parks and Wildlife Law Enforcement Field.

NRM 4001-4 INDIVIDUAL STUDY IN NATURAL RESOURCE MANAGEMENT
Individual study in a natural resource management area and/or associated field.

NRM 4011-4 SEMINAR IN NATURAL RESOURCE MANAGEMENT
Group study of specified topic in Natural Resource Management for the undergraduate student.
NRM 4172 NATURAL RESOURCE LAW
An intensive study of federal and Oklahoma Laws relating to land, water, wildlife and environmental management.

NRM 4182 LAND USE PLANNING
Land use planning is the study of uses of land both urban and rural including protection of agricultural land. Protection of wildlife through land use planning is studied. Land use issues also include water rights and usage, conservation, eminent domain, zoning, and environmental concerns with particular emphasis on land use laws and regulations applicable to Oklahoma.

NRM 4201 THE PARK RANGER
Theory and practice of park law enforcement.

NRM 4211 GAME AND FISH LAW
Introduction to federal and state laws pertaining to game and fish management.

NRM 4773 NATURAL RESOURCE RECREATION MANAGEMENT
Theory and practice of natural resource and park area management. Special attention is placed on the organization and administration of state and federal level natural resource areas. Interpretive techniques in natural, cultural, and historical sites are discussed as well. F, S

NRM 4782 RESOURCE INTERPRETATION
This course provides the student with knowledge, skills, and abilities in the field of resource interpretation. Topics will include interpretation of natural, cultural, and historic resources.

NRM 4792 LAND USE PLANNING
The course exposes the Parks and Recreation Management student to the broad field of land use planning. Topics include zoning and environmental use of restrictions.

NRM 4802 WILDLAND FIRE ECOLOGY
This course will explore the field of wildland fire ecology. Topics will include fire dependent wilderness ecosystems and the restoration of fire dependent ecosystems through the use of prescribed fire.

NRM 4812 WILDLIFE MANAGEMENT
This course explores the process of balancing the needs of wildlife with the needs of humans.

NRM 4832 WILDLIFE HABITAT MANAGEMENT
This course is designed to expose students to wildlife habitats and give them experiences in those fields.

NRM 4993-4998 INTERNSHIP IN NATURAL RESOURCE MANAGEMENT
Practical application devoted to serving an apprenticeship in a natural resource management setting. Student will serve under selected natural resource management professional in a local, state, federal or non-profit agency.

PRM 2102 FOUNDATIONS OF PARKS AND RECREATION
An introduction to the field of parks and recreation management. Provides an overview of the historical and philosophical foundations of the discipline.

PRM 2122 WILDERNESS FIRST AID
Designed to provide the student with a solid background in backcountry medicine. Emphasis is placed on practical, improvised wilderness first aid techniques. F

PRM 2143 EMERGENCY RESPONSE
This course deals with the fundamentals of response to emergency situations. Successful completion of the course leads to American Red Cross certification in Emergency Response and CPR for the Professional Rescuer. F

PRM 2201 BASIC HANDGUN
This course is designed to expose the Parks and Wildlife Law Enforcement student to the fundamentals of handgun safety and field use.

PRM 2212 WILDERNESS SURVIVAL
Theory and practice of survival/primitive living in remote, wilderness settings. Topics include edible plants, shelter building, snare construction, bow and drill construction/fire starting, implement construction, etc. F, S

PRM 2441 HIGH ANGLE RESCUE
Rope rescue techniques and practices. Including rappelling, rappelling self-rescue, rappelling pick-offs, victim stokes basket packaging, lowering and raising. SU

PRM 3113 SAILING, CANOEING, HIKING, AND CLIMBING
Basic instruction and practice in techniques applied to sailing, canoeing, hiking, rappelling, and other adventure activities. F, S

PRM 3142 ADVANCED WILDERNESS SURVIVAL
Theory and practice of advanced survival in remote, wilderness settings. Topics include advanced foraging, water procurement, shelter construction, and fire starting. This course is held entirely in wilderness settings. Three nights of camping are required. Students will procure the entirety of their meals and water from the surrounding environment. SU

PRM 3152 SCUBA
Theory and practice of skills and techniques, selection of equipment, safety procedures, and physics of scuba diving. Prerequisite: Advanced swimming skills. F, S

PRM 3161 LIFEGUARDING
Theory and practice of lifeguarding. Leads to American Red Cross certification in Lifeguarding, First Aid, CPR for the Professional Rescuer, and Automated External Defibrillator. S

PRM 3171 LIFEGUARD INSTRUCTOR
Based on requirements of the American Red Cross Lifeguard Instructors Certification course. Successful completion leads to certification with the American Red Cross as a lifeguard instructor. Lifeguard instructor course is designed to produce basic and advanced lifeguarding skills. D

PRM 3181 ROCK CLIMBING
Theory and practice of rock climbing. This physically demanding, overnight course involves instruction in knot tying, natural and artificial anchor rigging, top-ropes climbing techniques, and placement of artificial climbing protection. SU

PRM 3211 OUTDOOR EDUCATION / ADVENTURE PROGRAMMING
Designed to increase knowledge and understanding of a variety of activities associated with outdoor education and adventure programming including: low and high challenge course, artificial rock climbing, canoeing, sailing, rappelling, and rappelling self-rescue. Historical background and theoretical perspectives of outdoor education and adventure programming will be discussed. SU

PRM 3221 OUTDOOR EDUCATION FOR TEACHERS
Designed to expose current and prospective teachers to a variety of outdoor education and adventure activities that can be conducted on or near school grounds. Topics include: initiative games, low ropes course activities, group processing, knot tying, topographic map reading, compass techniques, field guide use, and hiking. Exposure to historical background and theoretical perspectives of outdoor education and adventure programming. D

PRM 3262 ADVANCED SCUBA / SLAM
Theory and practice of advanced SCUBA techniques including SCUBA lifesaving and accident management techniques. Leads to YMCA certification in Advanced SCUBA and SLAM (SCUBA Lifesaving and Accident Management). S

PRM 3421 BASIC ROPES COURSE FACILITATION
Exposure to the fundamentals of challenge course facilitation. Topics include low and high course facilitation, knot tying, climbing, rappelling, rappelling self-rescue, rope rigging, and ropes course rescue. Emphasis
placed on psychological and sociological outcomes associated with challenge course programming.

PRM 3432 ROPES COURSE FACILITATION
Theory and practice of challenge course facilitation. Topics include low and high course facilitation, knot tying, climbing wall facilitation, rappelling, rappelling self-rescue, rope rigging, ropes course rescue, and prussiking. Emphasis placed on psychological and sociological outcomes associated with challenge course programming. F, S

PRM 3452 ADVANCED ROPES
Theory and practice of advanced challenge course facilitation, rock, and rescue site management. Topics include all areas of high challenge course facilitation, knot tying, high element rigging and ropes course rescue. Other topics will include rappelling, rappelling self rescue, and fixed line ascension. Special attention will be given to rock climbing and rappelling anchor rigging as well as high angle rescue techniques including rappelling pick-off rescues, victim stokes basket packaging, lowering, and raising. S

PRM 3522 BACKPACKING
This course provides the student with knowledge, skills and abilities in backpacking. This off-campus course includes map and compass reading, route finding, weather interpretation, and expedition leadership. F, S

PRM 3663 RECREATION MANAGEMENT
Theory and practice of parks, recreation, and leisure service management. Topics include fiscal management, human resource management, and risk management in the parks and recreation field. F, S

PRM 3692 PRINCIPLES OF ARCHERY
This course is designed to expose the student to the theory and practice of traditional and modern archery. F, S

PRM 3702 RECREATIONAL AREAS AND FACILITIES MANAGEMENT
Theory and practice of recreational areas and facilities management. Special emphasis is placed on planning and design of parks, recreational, and sporting areas and facilities. S

PRM 4001-4 INDIVIDUAL STUDY IN PARKS AND RECREATION MANAGEMENT
Individual study of specified topic for Parks and Recreation Management for the undergraduate student. Credit 1–4 semester hours.

PRM 4011-4 SEMINAR IN PARKS AND RECREATION MANAGEMENT
Group study of specified topic for the Parks and Recreation Management undergraduate student. Credit of one to four semester hours. D

PRM 4113 RISK MANAGEMENT IN RECREATION
Designed to expose parks and recreation management/park law enforcement majors and minors to current trends and issues relating to risk management and legal liability minimization. F, S

PRM 4163 COMMUNITY RECREATION
Organization and administration of community based parks and recreation areas, facilities, and programs. F, S

PRM 4221 SMALL CRAFT SAFETY
Theory and practice of small craft safety and boating law. F, S

PRM 4231 CUSTODY AND CONTROL
Theory and practice of criminal custody and control techniques. Special emphasis is placed on compliance, handcuffing, and defensive techniques.

PRM 4241 FIREARM SAFETY
Theory and practice of law enforcement firearm use and safety. Special emphasis is placed on defensive handgun and shotgun safety, management, deployment, and marksmanship.

PRM 4383 BASIC MAN TRACKING
Basic Man Tracking is designed to increase knowledge, skills, and abilities in the field of law enforcement and search and rescue tracking.

PRM 4404 LEGAL ISSUES
This course deals with the criminal law portion of the Oklahoma Basic Council on Law Enforcement, Education and Training Academy. F, S

PRM 4421 TRAFFIC LAW
Police responsibility in traffic control, organization of traffic and patrol division, routine traffic duties and accident reports. Organization and operations of centralized records division; study of standard police forms and reports. Prerequisite: Legal Issues PRM 4404. F, S

PRM 4433 CRIMINAL INVESTIGATIONS I
General principles of police investigation, evaluation, processing and assignment of complaints, methods of obtaining evidence and interviewing techniques. Corequisite: PRM 4633 Criminal Investigations II. F, S

PRM 4441 RADAR OPERATIONS
Basic operation and theory of Laser and/or RADAR units as a tool for purposes of determining speed of moving vehicles. Develop understanding of underlying principles for proper operation and evaluation of visual and audio cues for assessing speed. F, S

PRM 4452 SFST/DRUG RECOGNITION
Recognition and evaluation of impaired driving suspects, from initial observation of the vehicle to the arrest and processing of the suspect. Enforcement strategies and issues surrounding Miranda, Implied Consent, and documentation of observations and evidence for the purpose of courtroom testimony. F, S

PRM 4512 COMMUNITY POLICING
This course deals with the community policing and community relations portion of the Oklahoma Basic Council on Law Enforcement, Education and Training Academy. F, S

PRM 4633 CRIMINAL INVESTIGATIONS II
General principles of police investigation, evaluation, processing and assignment of complaints, methods of obtaining evidence and interviewing techniques. Corequisite: PRM 4433 Criminal Investigations I. F, S

PRM 4641 TERRORISM
Inform the student of various terrorist indicators, probable targets, investigative resources, and appropriate response. Develop an understanding of the historical roots of modern day terrorism. Become familiarized with various terrorist groups and the religious ideology of militant extremists.

PRM 4663 OUTDOOR RECREATION
A study of philosophy, principles, and concepts of outdoor recreation program planning. Focuses on the development of outdoor recreation, outdoor adventure, and organized camping programs. F

PRM 4664 FIREARMS
Care and use of police firearms including legal provisions and restrictions. Open only to Collegiate Officer Program (COP) students. F

PRM 4674 DEFENSIVE TACTICS
The study and practice of methods of defense employed by police officers. Lab: three hours per week. Open only to Collegiate Officer Program (COP) students. F

PRM 4683 PATROL PROCEDURES
An examination of the types and methods of patrol activities. Studies include patrol techniques, hazard awareness, decision-making and tactical considerations. F

PRM 4712 OUTDOOR LEISURE EDUCATION SEMINAR
Group study in assigned topics of outdoor leisure education: Basic outdoor skills and techniques with emphasis on camping, adventure activities and environmental education. D

PRM 4722 ALPINE ADVENTURE PROGRAM
This course provides the opportunity to gain knowledge, skills and abilities in the area of alpine adventure education. F
PRM 4881 TACTICAL CARBINE
This course is designed to expose the Parks and Wildlife Law Enforcement student to the tactical use of the modern law enforcement carbine.

PRM 4993-8 INTERNSHIP IN PROFESSIONAL RECREATION
Practical application, devoted to serving an apprenticeship in a professional parks and recreation setting. Students serve under selected recreational professionals in a variety of local, state, federal and non-profit agencies. F, S, SU

DEPARTMENT OF PSYCHOLOGY

EDPSY 3413 CHILD PSYCHOLOGY
Study of the phases of growth and development from conception through childhood. Emphasis is placed on cognitive and personality changes as they relate to educational environments. Prerequisite: PSYCH 1003. F, S, SU

EDPSY 3433 ADOLESCENT PSYCHOLOGY
A realistic examination of the categories of behavior, developmental growth stages, family relationships, and social influences from late childhood through early adulthood as they apply to the school and classroom environments. Major emphasis is also directed to competency mastery of the Competencies for Licensure and Certification and to the objectives for the Professional Teaching Examination presented by the Oklahoma Commission for Teacher Preparation. Prerequisites: PSYCH 1003. F, S, SU

EDPSY 3653 EDUCATIONAL PSYCHOLOGY
A study of the theoretical foundational concepts and practical applications of developmental factors, learning capability, principles and techniques, and teacher roles and responsibilities are presented as they apply to the secondary classroom. Major emphasis is also directed to competency mastery of the Competencies for Licensure and Certification and to the objectives for the Professional Teaching Examination as presented by the Oklahoma Commission for Teacher Preparation. Prerequisites: PSYCH 1003 and Admission to Teacher Education Program or minor in Child Development. F, S, SU

Psychology

PSYCH 1003 GENERAL PSYCHOLOGY
A general education course which provides an overview of psychology with an emphasis on the applied areas in the field. F, S, SU

PSYCH 2423 SOCIAL PSYCHOLOGY
A scientific survey of the social determinants of behavior including a review of contemporary theory and methodology involved in studying social behavior. Prerequisite: PSYCH 1003. F, S

PSYCH 2433 PSYCHOLOGICAL STATISTICS
Statistical methods applied to the behavioral sciences. An introduction to the concepts and applications of descriptive and inferential statistics. Covers topics from central tendency to analysis of variance. Prerequisite: PSYCH 1003. F, S, SU

PSYCH 3201-4 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (TOPIC)
Analysis of current topics in psychology. This course offers the student and instructor an opportunity to explore in depth selected problems of current interest. Credit one to four semester hours. Prerequisite: PSYCH 1003. F, S, SU

PSYCH 3213 DEVELOPMENTAL PSYCHOLOGY
A study of the physical, cognitive, psychological, and social development of the individual from the prenatal period through the aging adult. Prerequisite: PSYCH 1003. F, S, SU

PSYCH 3224 RESEARCH METHODS
Introduce students to the common psychological methods and process of studying theories of human behavior and mental processes as they apply to multiple settings. The course emphasizes evaluating research in everyday environments. Prerequisite: PSYCH 1003 and PSYCH 2433. Corequisite: PSYCH 3224L. Research Methods Lab. F, S

PSYCH 3224L. RESEARCH METHODS LAB
Introduce students to the common psychological methods and process of studying theories of human behavior and mental processes as they apply to multiple settings. The course emphasizes hands on evaluation of research in everyday environments. Prerequisite: PSYCH 1003 and PSYCH 2433. Corequisite: PSYCH 3224. F, S

PSYCH 3233 LEARNING AND MEMORY
Overview of traditional and contemporary principles and theories of learning and memory. Prerequisite: PSYCH 1003. S

PSYCH 3243 CROSS-CULTURAL PSYCHOLOGY
Identifies psychological similarities and differences among various cultural groups within American society and explores cultural issues in a psychotherapeutic setting. Prerequisite: PSYCH 1003. F

PSYCH 3253 PSYCHOLOGICAL TESTS
The construction, validation, and interpretation of psychological tests with emphasis on the application of tests to the clinical evaluation of the individual. Prerequisite: PSYCH 1003 and PSYCH 2433. F

PSYCH 3323 ABNORMAL PSYCHOLOGY
A study of the history, theories, principles, and causes of abnormal behavior including an analysis of various therapy techniques. Prerequisite: PSYCH 1003. F, S, SU

PSYCH 3333 BEHAVIOR MANAGEMENT
Provides an introduction to behavior modification techniques in applied settings. The major focus of the course is on the application of operant conditioning principles, the implementation of behavior modification techniques, and the measurement and evaluation of program effectiveness in a variety of settings. Prerequisite: PSYCH 1003. F, S

PSYCH 3363 PSYCHOLOGY OF PERSONALITY
An analysis and comparison of major personality theories including a review of research that tests propositions from the various theories. Prerequisite: PSYCH 1003. F, SU

PSYCH 4011-4 SEMINAR IN PSYCHOLOGY (TOPIC)
Seminars in selected areas of psychology with special emphasis placed upon theories and application in the topic areas. Prerequisite: PSYCH 1003. F, S

PSYCH 4113 ISSUES IN CHEMICAL DEPENDENCY TREATMENT
Explores issues related to chemical abuse, dependency, and addictive behaviors with a focus on current treatment approaches. Prerequisite: PSYCH 1003. S

PSYCH 4123 THEORIES AND PRINCIPLES OF PSYCHOTHERAPY
Fundamental skills and principles of therapy are derived from the major theories of psychotherapy. Includes experiential teaching such as role playing and simulated problems. Prerequisite: PSYCH 1003. S

PSYCH 4133 PSYCHOLOGY OF SPORTS
A lecture/seminar course that will examine the effect of psychological and emotional factors on sport and exercise performance, and the effect of sport and exercise involvement on psychological and emotional factors. The course will examine educational, research and applied information on the topic. Prerequisite: PSYCH 1003. SU

PSYCH 4203 PSYCHOLOGY OF WOMEN
This course is designed to examine the differences in behaviors and mental experiences of women and men. An emphasis will be placed on developing an understanding of how differences between men and women are explained by various professions and the public. By Signature Only. Prerequisite: PSYCH 1003. S
PSYCH 4223 MEDIA AND MENTAL ILLNESS
Designed to develop an increased student understanding of the impact of psychological dysfunctions demonstrated by areas of instruction which include interactive effects, interpersonal relationships, cultural attitudes toward psychological disorders, effects of institutional treatment, and responses to abnormal behavior. Prerequisite: PSYCH 1003 and PSYCH 3323. F, SU

PSYCH 4313 INTRODUCTION TO CLINICAL PSYCHOLOGY
Broad overview of diagnosis and treatment of major psychological disorders and psychotherapeutic interventions (treatment). Emphasis placed on professional and theoretical problems and goals of psychotherapy. Prerequisite: PSYCH 1003. F

PSYCH 4323 FORENSIC PSYCHOLOGY
This course is designed to examine the psychological issues inherent in the various legal processes found in the United States. The central focus is developing an understanding of the research methods psychology uses to address the questions of human behavior; from this starting point we will examine the social, cognitive, clinical and developmental psychological research that is most helpful in evaluating current legal practices and explanations of human behavior. Prerequisite: PSYCH 1003.

PSYCH 4333 PHYSIOLOGICAL PSYCHOLOGY
A study of the physiological basis of behavior. Emphasis placed on the structure and function of the neuron, synapse and different components of the nervous system as well as sensory and motor processes and physiological substrate of sleep. Prerequisite: PSYCH 1003. F

PSYCH 4371-4 PSYCHOLOGICAL RESEARCH (TOPIC)
Directed research on a special problem in psychology. Research may be basically experimental or involve intensive study of the literature of a special problem. Prerequisite: PSYCH 1003; departmental permission. F, S, SU

PSYCH 4391-4 ADVANCED SEMINAR IN PSYCHOLOGY (TOPIC)
Intensive study of specific topics and problems in psychology by means of lecture, discussions, and supervised research conducted in the laboratory and the field. Credit one to four semester hours. Enrollment by departmental permission. D

PSYCH 4533 LANGUAGE DEVELOPMENT
Covers the general issues and theories pertaining to language development as well as an overview of language and speech disorders. Prerequisite: PSYCH 1003. S, SU

PSYCH 4602 SUBSTANCE ABUSE & ADDICTION
A study of misused or abused substances and the methods used by society to control these problems. F
EVERETT DOBSON SCHOOL OF BUSINESS AND TECHNOLOGY

DEPARTMENT OF BUSINESS AND COMPUTER SCIENCE

Accounting

ACCTG 2213 PRINCIPLES OF FINANCIAL ACCOUNTING
Financial accounting concepts related to the processes and principles of accrual accounting and the preparation of financial statements and reports for parties external to the firm. Prerequisite: F, S, SU

ACCTG 2313 PRINCIPLES OF MANAGERIAL ACCOUNTING
Continuation of ACCTG 2213 to include further discussion of corporations, managerial accounting concepts and objectives, planning and control of sales and costs, analysis of costs and profits. Prerequisite: ACCTG 2213. F, S, SU

ACCTG 3213 ACCOUNTING INFORMATION SYSTEMS
A study of the application of information technology to accounting systems. Prerequisites: ACCTG 2313 and ENTRP 3113. F

ACCTG 3313 INTERMEDIATE ACCOUNTING I
An introduction to the conceptual framework of accounting and generally accepted accounting principles. Emphasis upon current asset and liability relationships. Prerequisite: ACCTG 2313. F, S

ACCTG 3323 INTERMEDIATE ACCOUNTING II
Continuation of course 3313, with emphasis upon the remaining balance sheet accounts. Prerequisite: ACCTG 3313. F, S

ACCTG 3493 ANALYZING FINANCIAL STATEMENTS
How financial data are generated and their limitations, techniques for analyzing the flow of business’ funds, and methods for selecting and interpreting financial ratios. Prerequisite: FINAN 3343. D

ACCTG 3713 COST ACCOUNTING
A study of the processes used for cost accumulation, measurement and use. Emphasis is placed on planning and controlling of costs, report preparation and cost analysis. Prerequisites: ACCTG 2313 and ECONO 2463. S

ACCTG 4003 INDIVIDUAL STUDY IN ACCOUNTING (TOPIC)
Independent study of selected topics under the supervision of an accounting faculty member. Prerequisite: Instructor, Advisor, and Chair approval. D

ACCTG 4013 SEMINAR IN ACCOUNTING (TOPIC)
Group study of specified topics in accounting. Prerequisite: Instructor and Advisor approval. D

ACCTG 4113 ACCOUNTING FOR GOVERNMENT/NON-PROFIT ORGANIZATIONS
A study of fund accounting and reporting in relation to government entities, health care and educational institutions. Prerequisite: ACCTG 2313 and ACCTG 3313. D

ACCTG 4213 AUDITING I
Audit procedure, classification of audits, audit working papers and reports, methods of verification of financial statements, practical applications, maintenance and improvement of internal controls. Prerequisites: ACCTG 3323 and ACCTG 3713. F

ACCTG 4223 COMPUTERIZED ACCOUNTING
This course provides applied exercise with computerized integrated accounting systems. Students will be using popular professional software packages. The emphasis will be on the concept of computerized accounting in general rather than on specific software. Prerequisite: ACCTG 2313 or equivalent. D

ACCTG 4253 INTRODUCTION TO COMPUTER FORENSICS
The course focuses on clear and authoritative instructions about the field of computer forensics as it applies to the investigative process; from the collection of digital evidence to the presentation of Computer Forensic Examination findings in a court of law. Upon successful completion of the course, students will have a basic understanding of the computer forensic process, the scientific procedure involved in accounting, law enforcement, and computer sciences. Topics also include the science of computer forensics and how it relates to and is utilized within the judicial system of the United States. Prerequisite: ACCTG 2313 or equivalent. D

ACCTG 4313 INCOME TAX ACCOUNTING I
Introduction to general concepts of federal income tax law as it applies to individuals, corporations, partnerships, fiduciaries and estate gift tax. Prerequisite: ACCTG 2313. F

ACCTG 4323 INCOME TAX ACCOUNTING II
A continuation of the study of federal income, estate and gift taxes with emphasis on technical knowledge needed by accounting majors. Prerequisite: ACCTG 4313. S

ACCTG 4333 INTERNSHIP IN ACCOUNTING
Directed experience working in an organization at a level requiring professional duties and responsibilities. Open only to students majoring/minoring in a business degree who have completed 80 credit hours and at least 70% of the Professional Business Core component. A detailed journal and term report are required. Prerequisite: Approval of the supervising faculty, advisor, and Chair. D

ACCTG 4513 AUDITING II
Continuation of Auditing I to include Computer Assisted Audit Tools (CAAT) and case studies in auditing. Prerequisites: ACCTG 4213. D

ACCTG 4613 ADVANCED ACCOUNTING
A study of accounting topics of an advanced nature including partnerships, fiduciaries, parent and subsidiary accounting. Prerequisite: ACCTG 3323. S

ACCTG 4623 ACCOUNTING THEORY
Advanced accounting concepts and standards. Emphasis is placed on both a historical and contemporary perspective of the development of generally accepted accounting principles. Prerequisite: ACCTG 3323. D

ACCTG 4643 GLOBALIZATION OF ACCOUNTING, FINANCE & INVESTMENTS
A study of accounting for operations of multinational enterprises as they relate to a wide variety of regulatory, social and environmental influences. Subjects include the foreign currency translation, foreign exchange risk management, financing tools, and investments related to global entities. Prerequisites: ACCTG 2313 and FINAN 3343. FINAN 3663 recommended. D

ACCTG 4763 ADVANCED COST/MANAGERIAL TOPICS
Topics of an advanced nature dealing with special cost analyses and decision-making techniques. Prerequisite: ACCTG 3713. D

ACCTG 4853 COMPUTER FORENSICS ANALYSIS
This course will offer students the knowledge and skills necessary to install, configure, and effectively use AccessData's Forensic Toolkit (FTK). Students will demonstrate proficiency in the skills needed to conduct an effective Windows-based computer forensic examination to locate and analyze evidence found during the examination of computer systems. Students will take the AccessData Certified Examiner (ACE) certification course as the final examination and, if the proficiency requirements are met, receive the ACE Certification at the conclusion of the course. Prerequisite: ACCTG 4253. D
COMSC 1023 COMPUTERS & INFORMATION ACCESS
Introduction to computers, computer software, and the use of computers to access information for general education students. Includes an introduction to computer hardware, microcomputer operating systems, and computer applications, including word processing, spreadsheets, PowerPoint, e-mail, and database. F, S, SU

COMSC 1033 COMPUTER SCIENCE I
This course is an introductory programming course using the Java language. It covers an overview of the Java Virtual Machine. This course focuses on algorithm design, problem-solving strategies and program design. Topics covered include variables, types, expressions and control structures. Additional topics are standard input/output; file input/output; file streams; single and multi-dimensional arrays; searching; sorting; and recursion and its relation to iteration. This course also introduces object-oriented programming concepts such as classes and objects; syntax of class definitions; methods and parameter passing. F, S

COMSC 1053 COMPUTER SCIENCE II
This course is a continuation of Computer Science I. Object-oriented programming concepts such as class inheritance, encapsulation and polymorphism are covered using the Java language. Topics covered using Java include abstract classes; interfaces; GUI programming; event-driven programming; data abstraction through use of classic data structures list, stack and queue; and object oriented thinking and design. Emphasis will be on program design, modularity, debugging, and documentation. Prerequisite: COMSC 1033. F, S

COMSC 1103 INTRODUCTION TO INFORMATION SECURITY
This course is an overview of the fundamentals of a practical information security program with special emphasis on information security awareness, security systems development, implementation, and maintenance. This course provides an integrated, comprehensive, up-to-date coverage of the information security policies, process, computer science techniques, security tools, and awareness vital to information security. The classroom instruction provides a practical approach (case scenarios) of both the principles and practice of information, computer, and network security for the enterprise and home. S

COMSC 1433 VISUAL BASIC PROGRAMMING
This course provides students with the knowledge and skills needed to develop applications in Microsoft Visual Basic .NET for the Microsoft .NET platform. The course focuses on user interfaces, object-oriented programming, language syntax, and implementation details. It also introduces ADO.NET for database access and files input/output and dynamic arrays. F, S

COMSC 2011-4 SEMINAR IN COMPUTER SCIENCE
Group study of specified beginning and intermediate level topics in computer science. Credit: 1-4 semester hours. D

COMSC 2043 DISCRETE STRUCTURES
Introduction to discrete mathematics for computer science. Sets, functions, propositional and predicate logic, Boolean algebra, graph theory, matrices, proof techniques, combinatorics and finite state machines. Prerequisites: COMSC 1033 and MATH 1513. F

COMSC 2413 DATA STRUCTURES
This course introduces the techniques needed to manipulate commonly occurring data structures. It begins reviewing the Java approach to data abstraction and continues treatment of how to create and maintain various data structures as arrays, stacks, queues, linked lists, binary search trees, hash and binary heaps. Algorithms (e.g. divide and conquer, time complexity, sorting, Big O) and efficiency are also discussed. Prerequisite: COMSC 1053. F

COMSC 2463 PROGRAMMING IN C# AND .NET
Introduction to programming in C# for students with programming experience. Programming topics include network sockets, multithreading, and advanced applications using C# such as development of database driven applications using C#, ADO.NET, and ASP.NET. Prerequisite: COMSC 1033. S

COMSC 2473 PROGRAMMING IN C++
Emphasis in this course will be object-oriented C++. Topics include definition of class, data abstraction, pointers, member functions, friend functions, static class member, operator overloading, inheritance, virtual function, polymorphism, template, exception handling, reusability, generic algorithms in C++, introduction to Standard Template Library, files and standard input/output, single and multi-dimensional arrays, and advanced algorithms for searching and sorting. Extensive programming exercises in C++ are required. Prerequisite: COMSC 1033 or familiarity with a modern programming language. F

COMSC 2603 NETWORK SECURITY
This course will take an in-depth look at network defense concepts and techniques. It will examine theoretical concepts that make the world of networking unique. This course will also adopt a practical hands-on approach when examining network defense techniques. Along with examining different network defense strategies, this course will explore the advancement of network implementation, as well as, timeless problem solving strategies. Prerequisite: COMSC 1103. F

COMSC 3013 COMPUTER ARCHITECTURE
Study of a modern computer system as a layered structure. Digital logic, micro programming, Von Neumann machines, operating systems, asynchronous and high-level virtual machines, emphasizing fundamental concepts of each layer in the hierarchy and relationships between the layers. Prerequisite: COMSC 2413. S

COMSC 3043 SYSTEMS PROGRAMMING
The aim of this course is to introduce students to the concepts essential for understanding how to make use of the resources provided by a multi-party, multi-user operating system. Particular attention is paid to utilities that may be available for systems management tasks and to questions of inter-process communication. The course falls fairly naturally into five parts: utilities, system calls, networking, inter-process communication, the OSI network model, Sockets and Remote Procedure Calls. The system of reference is Linux/Unix. Prerequisite: COMSC 2413. S

COMSC 3053 OPERATING SYSTEMS
Introduction to different types of operating systems, overview of operating system architecture, processes, shared resources, security, memory management, resource allocation, scheduling deadlocks, and file management. Emphasis will be on the algorithms associated with the above concepts and implementing them as programming assignments individually. Prerequisite: COMSC 1053. F

COMSC 3133 SOFTWARE ENGINEERING
Techniques and procedures for developing software products and supporting documentation. Emphasis on software life cycle models and teamwork in the development of software products. Prerequisite: COMSC 2413. S

COMSC 3153 DATA COMMUNICATIONS AND NETWORKS
This course is an introduction to data communication technology and protocols/standards, local area networks, wide area networks, and the Internet is provided. The trends in regulation and telecommunications technology applicable to the transmission of voice, data, and images are examined. Prerequisite: COMSC 2043. S

COMSC 3253 INTRODUCTION TO COMPUTER FORENSICS
The course focuses on clear and authoritative instructions about the field of computer forensics as it applies to the investigative process; from the collection of digital evidence to the presentation of Computer Forensic Examination findings in a court of law. Upon successful completion of the course, students will have a basic understanding of the computer forensic process, the scientific procedure involved in accounting, law enforcement, and computer sciences. Topics also include the science of computer forensics and how it relates to and is utilized within the judicial system of the United States. D

COMSC 3353 SYSTEMS ANALYSIS AND DESIGN
A study of the techniques for needs analysis development of requirements specifications for an application system is undertaken in this course. The implementation of operational systems and selection of hardware/software are examined in detail. The importance/impact of organizational behavior is evaluated in the context of support systems.
design. Topics such as System Development Life Cycle (SDLC) and Rapid Application Development (RAD) will be covered. Process analysis and design, development of functional specifications, physical design, and operational design will be discussed in test cases presented to and by students. Prerequisite: COMSC 1053. F

COMSC 3403 DATABASE SYSTEMS
Introduction to relational databases, study of relational database model, entity relationship modeling, normalization, SQL, transaction management, and concurrency control. Includes implementation and maintenance of databases using Database Management Systems (DBMS) software products. Prerequisites: COMSC 1023 and COMSC 1053. F, S

COMSC 3513 IS PROJECT MANAGEMENT
This course will train the students in planning, scheduling, and controlling an Information System (IS) project during its life cycle. Techniques for planning, scheduling, and controlling projects will be discussed and applied. Demonstrations and exercises in using project-management software (such as Primavera and MS project) are provided. Students will be given an opportunity to develop and execute an IS project and address issues such as staffing, scheduling, risk assessment and control, and project close-out. Prerequisite: COMSC 1023. F

COMSC 3603 HARDWARE/SOFTWARE CONCEPTS
This course provides an overview of computers and computer systems. It covers topics such as systems architecture, the relationships between hardware architecture, systems software, applications software, communications protocols, and storage technologies. The relationship between the design parameters of hardware and systems software and the development process for application programs are analyzed. The emerging Internet technologies including hardware and software are discussed. F

COMSC 3853 COMPUTER FORENSICS ANALYSIS
This course will offer students the knowledge and skills necessary to install, configure, and effectively use AccessData’s Forensic Toolkit (FTK). Students will demonstrate proficiency in the skills needed to conduct an effective Windows-based computer forensic examination to locate and analyze evidence found during the examination of computer systems. Students will take the AccessData Certified Examiner (ACE) certification course as the final examination and if the proficiency requirements are met, receive the ACE Certification at the conclusion of the course. Prerequisite: COMSC 3253. D

COMSC 3913 WEB DEVELOPMENT
A study of web development using Macromedia Dreamweaver. Covers static and dynamic content, links, page layout, cascading styling sheets, and media objects. A significant student project is required. F

COMSC 3933 MULTIMEDIA SYSTEMS-DESIGN AND EVALUATION
An investigation of multimedia systems and their applications. Techniques and processes for creating professional presentations based on utilization of sound, clip art, video, and text will be studied. Students will also examine the effect of multimedia presentations on social issues associated with the application environment. S

COMSC 4001-4 INDEPENDENT STUDY IN COMPUTER SCIENCE
Specified projects in computer science. One to four credit hours. D

COMSC 4011-4 COMPUTER SCIENCE SEMINAR
Group study of specified advanced topics in computer science. One to four credit hours. D

COMSC 4033 PRINCIPLES OF PROGRAMMING LANGUAGES
The aim of this course is to introduce students to the general principles and concepts underlying programming languages, including such topics as syntax and its specification, exception handling and memory management. Students will see how these topics fit into different types of programming languages which can be classified as logical, procedural, and object oriented. Prerequisite: COMSC 2043. F

COMSC 4043 GEOGRAPHIC INFORMATION SYSTEMS
Fundamental concepts of Geographic Information Systems (GIS), cartography, GIS, analysis of spatial information, real-world applications, map creation and analysis. Primary objective is to investigate interactive GIS application rather than develop expert users. D

COMSC 4133 DESIGN AND ANALYSIS OF COMPUTER ALGORITHMS
Topics include asymptotic notations and analysis, big-O, recurrence relations, sorting (quick sort, merge sort...) and searching algorithms, divide and conquer, dynamic programming, basic graph algorithms, the greedy method, backtracking, NP-completeness. Prerequisites: COMSC 2413. F

COMSC 4143 SERVER MANAGEMENT
This course provides students with experience in using the Windows Server and Mac Server. Students will gain knowledge and skills needed to manage server accounts and resources, maintain server resources, monitor server performance, as well as safeguard data. Prerequisites: COMSC 1103 and COMSC 2603 or permission of the instructor. D

COMSC 4173 MOBILE APPLICATIONS AND RESPONSIVE WEB DESIGN
Course will focus on building application for mobile devices using the Android environment based upon the Linux V2.6 kernel. It will also include responsive website development where the website automatically changes to fit the device’s screen size. Prerequisite: COMSC 1033.

COMSC 4453 ADVANCED DATABASE SYSTEMS
The course covers advanced topics in databases. Possible topics include modeling and designing databases; data on the Web, data mining and data warehousing as well as emerging issues and concepts in database design, implementation, and management. Prerequisite: COMSC 3403. S

COMSC 4513 BUSINESS INTELLIGENCE
This course starts with an analysis of information support systems that serve the management at all levels in the decision-making process. The decision support system is derived from various models and databases within the organization and/or outside the organization. Theoretical concepts related to artificial intelligence (AI) are studied. A study of various commercially available expert systems will be undertaken in the context of decision support systems test cases. S

COMSC 4753 COMPUTER GRAPHICS
Design of graphics systems. Development of algorithms needed to implement both two and three dimensional graphics. Experience with a variety of graphics devices and software packages. Prerequisites: COMSC 1053 and MATH 1613.

COMSC 4913 E-COMMERCE WEB DEVELOPMENT
Topics include introduction to scripting; JavaScript and VB Script, dynamic HTML; Object Model, Collection Model and Event Model, Server Side Web Application Development with Scripting, accessing database and server data, Active Server Pages (ASP.NET), design and implementation of e-commerce transaction applications. Students will create sites for online order and other information processing using Microsoft's ASP.NET technology. Prerequisite: COMSC 3913. S

COMSC 4921-3 COMPUTER SCIENCE INTERNSHIP
Designed to prepare the students to cope with the professional challenges in the computer field. Students must complete 160 hours of employment with an approved employer in the area of computer information support or development. Reports, meeting with others, and a presentation to the faculty are required. Prerequisites: COMSC 2413 and approval of the supervising faculty, advisor and Chair. D

COMSC 4953 CS/IS CAPSTONE
Students will work in small groups under the supervision of a faculty advisor on real-world problem/requirement defined by a client in consultation with the advisor. The project team will work like a contractor and handle all facets of the project including cost estimation, scheduling, project management and control, technical work, documentation, and client interface. The final product of the program will be a project report. Prerequisite: Senior Standing, S
Entrepreneurship

ENTRP 1123 INTRODUCTION TO BUSINESS
Introductory course for students of all business disciplines and undecided majors. Survey of basic principles, forms, and practices involved in administration of a business firm. Not open to junior or senior majors or minors in the School of Business. D

ENTRP 3113 INTRODUCTION TO MIS
Introduce issues relevant to management, information and computer systems. Intended to provide students with an overview of information systems. Students will gain knowledge in organizing, monitoring and controlling information systems resources and addressing management problems using computerized information systems. Prerequisite: Basic knowledge and ability to use a computer system and COMSCI 1023. F, S, SU

ENTRP 3123 LEGAL ENVIRONMENT OF BUSINESS
An introduction to the legal system in the United States. Students are encouraged to analyze case law and legal precedent. Primary legal topics covered include constitutional, administrative, contract, tort and criminal law. Prerequisite: Junior standing. F, S

ENTRP 3173 INFORMATION/RECORDS MANAGEMENT SYSTEMS
Introduction to the field of records management, awareness of the rapid changes in records management technology, and the growing opportunities available in the records management field. Content includes a study of various filing systems and use of database software. D

ENTRP 3223 COMMERCIAL LAW
A study of the Uniform Commercial Code dealing with the sale of goods, commercial paper, secured transactions, debtor-creditor relations, documents of title and agency. Prerequisite: ENTRP 3123. S

ENTRP 3313 REAL ESTATE
Principles of the real estate industry including fundamentals of career requirements and licensing, rights and interests in land, forms of ownership, transferring title, contract law, title insurance, sources of financing, property valuation and title closing. Prerequisite: Junior standing. S

ENTRP 3423 BUSINESS COMMUNICATION
A survey course of communication skills needed in the business environment. Content includes writing memoranda, letters, reports, resumes, and electronic messages; delivering oral presentations; and developing interpersonal skills. Critical thinking and problem solving skills are emphasized. Development of these skills is integrated with the use of technology. Prerequisites: ENGL 1213 and COMM 1313. F, S

ENTRP 3723 INTERNATIONAL BUSINESS
An examination of international business theory and practices. Subjects include the study of the international business environment and its impact in the areas of finance, balance of payments, politics and law, differing cultures, logistics, marketing, human resources management, and organization. Prerequisite: MNGMT 3233. D

ENTRP 3823 QUANTITATIVE METHODS IN BUSINESS
This course addresses the component of quantitative skills needed in all areas of business. These skills include mathematical, statistical, forecasting and operations research. Computer utilization is used in analyzing and solving business related problems. Prerequisites: MATH 1513 and ECONO 2463. F, S, SU

ENTRP 3923 ADVANCED COMPUTER BUSINESS APPLICATIONS
An advanced study of computer software to prepare students for computer applications used in business courses and in the workplace. Content includes word processing, spreadsheets, database, and presentation software. Prerequisite: COMSCI 1023. D

ENTRP 4003 INDIVIDUAL STUDY IN ENTREPRENEURSHIP (TOPIC)
Independent study of selected topics under the supervision of a general business faculty member. Prerequisite: Instructor, Advisor, and Chair approval. D

ENTRP 4013 SEMINAR IN ENTREPRENEURSHIP (TOPIC)
Group study of special topics in general business. Prerequisite: Instructor and Advisor approval. D

ENTRP 4123 PROFESSIONAL ISSUES
In-depth study of human relations, job search, job interviewing, resume writing, etc., along with a study of current research/publications on workplace developments. S

ENTRP 4233 LEADERSHIP AND GENDER
Students will examine the framework that gender and other factors play in defining and determining access to leadership in the U.S. workplace. Students will focus on leadership positions with the corporate, political, and non-profit sectors. The course will be interactive with discussions, outside readings, and videos. D

ENTRP 4333 INTERNSHIP IN ENTREPRENEURSHIP
Directed experience working in an organization at a level requiring professional duties and responsibilities. Open only to students majoring/minoring in a business degree who have completed 80 credit hours and at least 70% of the Professional Business Core component. A detailed journal and term report are required Prerequisites: Approval of the supervising faculty, advisor, and Chair. D

ENTRP 4513 BUSINESS INTELLIGENCE
This hands-on course includes building Web 2.0 systems and the process of creating an effective, competitive organization for today’s marketplace. This course begins with the basic concepts of management systems and progresses through blogging, wikis, and how to use these tools to create a knowledge capture system that allows companies to build strategy for knowledge as an asset. The course introduces the knowledge model used in the Malcolm Baldrige National Quality Award and its application to education and business settings. S

Finance

FINAN 3213 RISK MANAGEMENT
Designed to provide knowledge of principles that underlie risk management and insurance; detailed study of various kinds of insurance coverage. Prerequisite: ECONO 2263 and ECONO 2363. F

FINAN 3313 REAL ESTATE
Real estate lending and investment including fundamentals of analysis, valuation, and appraisal for real estate investments; and sources of mortgage funds in primary and secondary markets. Prerequisite: Junior standing. S

FINAN 3343 BUSINESS FINANCE
A survey course with emphasis on the financial characteristics of modern U.S. corporations. Prerequisite: MATH 1513 and ACCTG 2313. F, S, SU

FINAN 3353 PERSONAL FINANCIAL PLANNING
Financial planning with emphasis on the needs of the individual and family. Prerequisite: D

FINAN 3493 ANALYZING FINANCIAL STATEMENTS
How financial data are generated and their limitations, techniques for analyzing the flow of business’ funds, and methods for selecting and interpreting financial ratios. Prerequisite: FINAN 3343. D

FINAN 3663 INVESTMENTS
Consideration of the nature of investment, such as stocks, bonds, securities markets and their operations and an analysis of corporate financial statements. Prerequisites: ECONO 2263 and ECONO 2363. S
FINAN 4003 INDIVIDUAL STUDY IN FINANCE (TOPIC)
Independent study of specified topics under the supervision of a finance faculty member. Prerequisite: Instructor, Advisor, and Chair approval. D

FINAN 4013 SEMINAR IN FINANCE (TOPIC)
Group study of specified topics in finance. Prerequisite: Instructor and Advisor approval. D

FINAN 4063 FINANCIAL INSTITUTIONS AND MARKETS
The study of financial markets and institutions, government regulation, planning, and analysis. Prerequisite: FINAN 3343. S

FINAN 4123 MANAGERIAL ETHICS
The study of managerial ethics in a dynamic and changing environment. Stakeholders and issues management approaches are reviewed in the decision making process. Both classical and contemporary concepts are explored as an aspect of managerial ethics. Management decisions that are value-laden will be assessed in the moral context. The student will gain knowledge in managing corporate social responsibility and individual ethical leadership. Prerequisite: MGMT 3233. S

FINAN 4213 COMMERCIAL BANK MANAGEMENT
Financial management of the banking firm including theories and practices of bank asset management, banking markets and competition. Prerequisite: FINAN 3343. F

FINAN 4233 SMALL BUSINESS FINANCE
The purpose of this course is to present an overview of what entrepreneurial finance is about. It will convey to you the importance of understanding and applying entrepreneurial finance methods and tools to help ensure an entrepreneurial venture is successful. A life cycle approach to entrepreneurial finance is used to cover venture operating and financial decisions faced by the entrepreneur as a venture progresses from an idea through to harvesting the venture. Prerequisite: FINAN 3433. D

FINAN 4263 FINANCIAL MANAGEMENT
Advanced study of finance, includes case studies. Prerequisite: FINAN 3343. S

FINAN 4333 INTERNSHIP IN FINANCE
Directed experience working in an organization at a level requiring professional duties and responsibilities. Open only to students majoring/minoring in a business degree who have completed 80 credit hours and at least 70% of the Professional Business Core component. A detailed journal and term report are required. Prerequisite: Approval of the supervising faculty, advisor, and Chair. D

FINAN 4393 INTERNATIONAL FINANCE
An examination of international financial markets and their impact on macroeconomic institutions. Designed to develop an understanding of exchange rate determination, foreign exchange policy, and international macroeconomic policy. Prerequisites: ECONO 2263, ECONO 2363, and FINAN 3343. D

FINAN 4513 PORTFOLIO MANAGEMENT I
First of two courses addressing the tools and processes available to manage the cash resources and meet the financial goals of the individual investor/enterprise. Students will construct, manage, track, and report results of an investment portfolio. Prerequisite: Instructor approval. D

FINAN 4523 PORTFOLIO MANAGEMENT II
A continuation course of FINAN 4513. Prerequisite: FINAN 4513 and Instructor approval. D

FINAN 4763 OPTIONS, FUTURES AND DERIVATIVE SECURITIES
A comprehensive course in the valuation and trading of all derivative securities including futures and options; to provide an understanding of the participant's differing objectives relative to profits. Prerequisites: FINAN 3343 and FINAN 3663. D

MGMT 3233 MANAGEMENT
An introductory management course dealing with the fundamental principles of management such as planning, organizing, directing, controlling and evaluation. This course addresses fundamental theory and the applications. Prerequisite: Junior standing. F, S, SU

MGMT 3243 PROMOTIONAL STRATEGY
The course provides an in-depth study of the promotional tools available to the firm, individual, or organization including personal selling, sales promotion, advertising, and public relations and publicity. There is particular emphasis on strategic elements of the choices in developing the presentations. Prerequisite: MGMT 3233. S

MGMT 3313 REAL ESTATE
Real estate lending and investment including fundamentals of analysis, valuation, and appraisal for real estate investments; and sources of mortgage funds in primary and secondary markets. Prerequisite: Junior standing. S

MGMT 3333 HUMAN RESOURCE MANAGEMENT
Introduces the student to modern methods of selection, testing, training, and solving basic personnel and human resource management problems. Prerequisite: Junior standing. F, S

MGMT 3433 DYNAMICS OF ORGANIZATIONAL MANAGEMENT
In this course learners will examine governance and control, social responsibility, organizational structure and design, culture, the global environment, effects of technology, and change as it relates to organizations. Prerequisite: MGMT 3233. F, S

MGMT 3533 ORGANIZATIONAL BEHAVIOR
Provides an understanding to behavior in organizational settings. Emphasis will be given to understanding, predicting, and controlling human behavior in both traditional as well as group- and team-oriented organizational structures. Application is accomplished through extensive use of group interaction and in-class experiential exercises. Prerequisite: MGMT 3233. F, S

MGMT 4003 INDIVIDUAL STUDY IN MANAGEMENT (TOPIC)
Independent study of selected topics under the supervision of a management faculty member. Prerequisite: Instructor, Advisor, and Chair approval. D

MGMT 4013 SEMINAR IN MANAGEMENT (TOPIC)
Group study of special topics in management. Prerequisite: Instructor and Advisor approval. D

MGMT 4113 GENDER ISSUES IN HR MANAGEMENT & DEVELOPMENT
Survey course into gender issues in the workplace. This course will explore the legal and cultural aspects of work environments, policies and practices surrounding gender differences and equality. D

MGMT 4123 MANAGERIAL ETHICS
The study of managerial ethics in a dynamic and changing environment. Stakeholders and issues management approaches are reviewed in the decision making process. Both classical and contemporary concepts are explored as an aspect of managerial ethics. Management decisions that are value-laden will be assessed in the moral context. The student will gain knowledge in managing corporate social responsibility and individual ethical leadership. Prerequisite: MGMT 3233. S

MGMT 4133 PRODUCTION/OPERATIONS MANAGEMENT
Production and operations problems of manufacturing and service firms; use of quantitative techniques to aid in decision making; decision areas include strategy, process and capital planning, facility layout, design of work systems, quality, just-in-time inventory systems, transportation, location planning, learning curves, linear programming and reliability. Prerequisites: ECONO 2463 and MGMT 3233. F, S
MNGMT 4163 MANAGERIAL LEADERSHIP
This course examines the impact of leadership on organizational effectiveness through a study of numerous theories of leadership. A conceptual understanding of the individual, interpersonal, and institutional impact of strong moral leadership in relation to strategic objectives is discussed. Emphasis is placed on exploring contemporary leadership issues and the development of effective leadership skills. Prerequisite: MNGMT 3233 or ORGL 4333. S

MNGMT 4183 SALES SKILLS & MANAGEMENT
The course will focus on the terminology, principles, practices, and processes involved in sales and sales management. The course is a fun way to develop the necessary skill set to successfully sell products and learn the unique nature of sales management. Extensive case studies, group work, and oral presentations will be involved. Prerequisites: MNGMT 3233 and MRKTG 3143. D

MNGMT 4213 CRISIS MANAGEMENT
Crisis occurs at the personal, organized, local, state, and national level. All organizations, private, public and not-for-profit are faced with the possibility of disasters that impact their ability to successfully continue operations. On a smaller scale, crisis can create convenient planning, preparation, response, recovery, and the organizational transition that must occur after recovery from a crisis. Prerequisite: MNGMT 3233. D

MNGMT 4223 INNOVATIVE MANAGEMENT TECHNOLOGIES
Innovation is a concern in all organizations. In fact, innovation is a building block to the creation of sustainable competitive advantage. All organizations must learn to incorporate and use technology to innovate all systems and processes in their organizations. This course will discuss the use of technology in management functions. The focus is on innovative collaborative technologies that increase creativity and efficiency. Technologies discussed will include: Enterprise Resource Planning (ERP), Human Resource Information Systems (HRIS), problem solving and decision making software, brainstorming software, web conferencing, SMART boards, Joomla and Drupal. Prerequisite: MNGMT 3233. D

MNGMT 4233 SERVICES MARKETING
This course examines the special attributes of services that make the marketing and management of services different and more challenging than the marketing of goods. As services dominate the economics of the industrialized world, students will learn a managerial approach to competing in an ever-increasing competitive and technological world. The course is lecture, discussion, and project-based. Prerequisite: MNGMT 3233. S

MNGMT 4243 PRACTICAL MANAGEMENT SKILLS
This course will focus on developing practical management skills that transfer knowledge from theoretical courses into practical application. Each student will have an opportunity to address: time management, organization methods, managing meetings, leading a team through a problem solving initiative, creating a change management plan – Gap analysis, communicating a plan in writing and verbally, interviewing and appraising performance, and providing verbal feedback. Prerequisite: MNGMT 3233. D

MNGMT 4283 TEAM MANAGEMENT
This course give participants answers to hard questions and provides proven solutions to some of management’s greatest challenges: dealing with conflict productively, increasing creativity, managing diversity, evaluating and rewarding team performance, and motivating and leading people. Prerequisite: MNGMT 3233. D

MNGMT 4313 EVENT MANAGEMENT
This course gives learners the opportunity to conceptualize, plan, and manage an event for a charitable organization during the course period. This provides learners with hands-on experience in managing a team, managing the creative process, managing the development of a plan of action, managing a budget, managing communication channels, and managing the event. The goal of this course is to learn how to create and manage a successful event while providing a service to our community. Prerequisite: MNGMT 3233. D

MNGMT 4323 PROJECT MANAGEMENT
This course gives learners the opportunity to conceptualize, plan, and manage an individual project. The project may be personal or business related. This provides learners with hands-on experience in planning the management of a team, management of the creative process, management of the development of a plan of action, management of a budget, management of communication channels, and management of the entire project. The goal of this course is to learn how to create and manage a successful project using project management methodology. Prerequisite: MNGMT 3233. D

MNGMT 4333 INTERNSHIP IN MANAGEMENT
Directed experience working in an organization at a level requiring professional duties and responsibilities. Open only to students majoring/minoring in a business degree who have completed 80 credit hours and at least 70% of the Professional Business Core component. A detailed journal and term report are required. Prerequisite: Approval of the supervising faculty, advisor, and Chair. D

MNGMT 4433 ENTREPRENEURSHIP & NEW VENTURE
A comprehensive course that examines entrepreneurial attitudes and understandings. It focuses on the application of management functions to the operation of small firms: feasibility of owning a business; financial planning; production and marketing decision making; the role of e-commerce; and human resources management. It focuses on the various steps and procedures necessary for the building of a successful venture. Students are introduced to the theory and practice of entrepreneurship through readings, case studies, web assignments, and a business plan project. Prerequisites: FINAN 3343 and MNGMT 3233. F

MNGMT 4633 INTERNATIONAL MANAGEMENT
A course designed to involve the student with the theories, concepts, problems, and practices encountered in managing the multi-national business firm. Prerequisite: MNGMT 3233. F

MNGMT 4923 STRATEGIC MANAGEMENT AND POLICY
A comprehensive course in business policy formulation and strategy development, integrating all aspects of business management. The course is designed to introduce students to the theory and practice of strategic management using a variety of readings and cases and other pedagogical tools and techniques. Prerequisites: Senior classification, FINAN 3343 and MNGMT 3233. Strongly recommend that this class be taken during the last semester of undergraduate coursework. F, S, SU

Marketing
MRKTG 3143 PRINCIPLES OF MARKETING
The course provides an overview of the Marketing process structured around the concept of the “Four P’s of Marketing.” The course is intended as a foundation course for those who will pursue further coursework in the discipline and as a survey course of Marketing’s importance to the firm for those who will not. Prerequisite: Junior standing. F, S, SU

MRKTG 3243 PROMOTIONAL STRATEGY
The course provides an in-depth study of the promotional tools available to the firm, individual, or organization including personal selling, sales promotion, advertising, and public relations and publicity. There is particular emphasis on strategic elements of the choices in developing the Promotional Mix. The course may require case studies and oral presentations. Prerequisite: MRKTG 3143. S

MRKTG 3263 RETAIL MANAGEMENT
This course is designed to help students understand the nature and function of retailing, as well as the strategies used by retailers. To analyze environmental influences on retailing, including consumers, competition, and legal regulations. To understand the management aspect of retailing, including finances, organization, and facilities, and relates principles of retailing to accounting, marketing, and management principles. To explore the selection process of retail markets. To demonstrate knowledge and understanding of the process of managing the retail mix. To become familiar with the five buying functions. Prerequisite: MNGMT 3233 and MRKTG 3143. D
MRKTG 3313 REAL ESTATE
Principles of the real estate industry including fundamentals of career requirements, legal concepts, rights and interests in land, forms of ownership, transferring title, contract law, title insurance, sources of financing, property valuation and title closing. Prerequisite: Junior standing. S

MRKTG 3443 CONSUMER BEHAVIOR
An examination of individual and family behaviors in the marketplace using research methods, principles, and theories found in the social sciences with specific focus on demographics, family life cycle, family dynamics, roles, cultural & ethnic influences and individual and group decision making. Prerequisite: MRKTG 3143. F

MRKTG 4003 INDIVIDUAL STUDY IN MARKETING (TOPIC)
Independent study of selected topics under the supervision of a marketing faculty member. Prerequisite: Instructor, Advisor, and Chair’s approval. D

MRKTG 4013 SEMINAR IN MARKETING (TOPIC)
Group study of specified topics in marketing. Prerequisite: Instructor and Advisor approval. D

MRKTG 4123 SERVICES MARKETING
This course examines the special attributes of services that make the marketing and management of services different and more challenging than the marketing of goods. As services dominate the economics of the industrialized world, students will learn a managerial approach to competing in an ever-increasing competitive and technological world. The course is lecture, discussion, and project-based. Prerequisite: MRKTG 3143. S

MRKTG 4133 SPORTS MARKETING
An in-depth study of the application of marketing principles and concepts in the sports industry. Includes sponsorships, branding, promotions, public relations, licensing, and sports consumer research and behavior from the perspective of both participants and spectators. Prerequisite: MRKTG 3143. D

MRKTG 4143 MARKETING MANAGEMENT
The course is intended as a capstone course for Marketing majors. It examines strategic alternatives available for an overall Marketing Plan. Students are encouraged to have as many marketing courses as possible before taking this course. The course may use case studies to illustrate and analyze real marketing decisions and may require preparation of a Marketing Plan. Prerequisites: MRKTG 3143 and Senior Standing. D

MRKTG 4183 SALES SKILLS & MANAGEMENT
The course will focus on the terminology, principles, practices, and processes involved in sales and sales management. The course is a fun way to develop the necessary skill set to successfully sell products and learn the unique nature of sales management. Extensive case studies, group work, and oral presentations will be involved. Prerequisites: MNGMT 3233 and MRKTG 3143. D

MRKTG 4243 MARKETING RESEARCH
The course is designed to prepare the student to be an informed, effective user of marketing research; to acquaint the student with the importance of well-developed research questions; to address those questions using the appropriate basic research design; and, to select an adequate sample with which to answer those questions. The course provides an overview of research techniques available for collecting information to answer specific research questions. Prerequisites: MRKTG 3143 and ECONO 2463. F

MRKTG 4331-3 INTERNSHIP IN MARKETING
Directed experience working in an organization at a level requiring professional duties and responsibilities. Open only to students majoring/minoring in a business degree who have completed 80 credit hours and at least 70% of the Professional Business Core component. A detailed journal and term report are required. Prerequisite: Approval of the supervising faculty, advisor, and Chair. D

MRKTG 4443 CHANNELS OF DISTRIBUTION
The focus of this course is on supply chain management from the perspectives of suppliers, intermediaries, and ultimate organizational users of goods, ideas, and services. The importance and impact of relationship marketing is examined and analyzed. Case studies and oral presentations are utilized. Prerequisite: MRKTG 3143. D

MRKTG 4543 INDUSTRIAL MARKETING
The course examines the terminology, principles, practices, and processes involved in marketing goods and services to businesses, governmental agencies, and institutions. Extensive case studies, group work, and oral presentations may be involved. Prerequisite: MRKTG 3143. D

MRKTG 4643 INTERNATIONAL MARKETING
The course expands the scope of marketing principles from a domestic market to the considerably broader and increasingly important and competitive international arena. The course emphasizes such major topics as cultural differences, legal and monetary considerations, and adaptations to the domestic marketing mix. Prerequisite: MRKTG 3143. S

DEPARTMENT OF ENGINEERING TECHNOLOGY

MFET 3183 STATICS AND STRENGTHS
The study of force systems in two dimensions, equilibrium, moments, bending, stress, and strain. Corequisite: MFET 3183L. Prerequisites: MATH 1613 and PHY 1044. F

MFET 3433 AUTOMATION/ROBOTICS
A survey of automated manufacturing and related activities. F

MFET 4020 PROFESSIONAL CERTIFICATION REQUIREMENTS
Non-credit course required of all students who seek professional certification in Engineering Technology and Industrial Technology. Prerequisite: Senior classification. F, S

MFET 4443 MATERIALS HANDLING AND FACILITY PLANNING
A study of the factors influencing location, layout, and planning of industrial facilities. Prerequisite: TECH 1203. S

MFET 4753 SENIOR CAPSTONE
The development and completion of an independent senior project generally conducted with an outside manufacturing company. The student will be required to generate and analyze data, design a solution and present work to the company assigned. This work will encompass presentations and a detailed project paper submitted to SWOSU. Prerequisite: Senior standing. F

TECH 1101 INTRODUCTION TO TECHNOLOGY
An orientation course for technology and undeclared students to help prepare the student to successfully accomplish their college career goals. F, S

TECH 1203 ENGINEERING DRAFTING
A beginning class in drafting which includes lettering, geometric construction, orthographic projection, sketching, and pictorial drawing. Concepts of computer aided drafting are introduced. F, S

TECH 1223 TECHNOLOGY AND SOCIETY
A survey course introducing the student to new and emerging technologies in relation to their economic, social, and global impact on society. F, S

TECH 1713 BASIC ELECRL SCIENCE
Theory and practices of basic concepts of electricity. These concepts include an understanding of circuit properties, Ohm’s law, Power Law, and basic components of circuits. Prerequisite: MATH 1513. F, S

TECH 2000-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)
Specified topic in technology. Credit one to four semester hours. D
TECH 2011-4 SEMINAR IN TECHNOLOGY (TOPIC)
Specified topic in technology for undergraduate students. Credit one to four semester hours. D

TECH 2413 NON-METALLIC MATERIALS & PROCESSES
An introductory course in the study of non-metallic materials, their properties, and the processes used to manufacture various products with them. Materials include, but are not limited to: polymers, plastics, composites, woods, and ceramics. F, S

TECH 2513 FABRICATION PROCESSES I
A study of common industrial metals, layout tools and procedures, welding and brazing processes, precision measuring instruments, fasteners, and assembly processes. F, S

TECH 2713 FUNDAMENTAL ELECTRONICS
A continuation of basic concepts focusing upon more complex circuit properties including impedance, linear circuit analysis, multiphase circuits, and magnetic devices. Prerequisite: TECH 1713. S

TECH 2813 DIGITAL DEVICES
A study of electronic digital techniques used in modern systems. Common Boolean gates and expressions are combined with VHDL and FPGA techniques. Prerequisite: TECH 1713. FE

TECH 3133 INDUSTRIAL SAFETY
Course emphasizes the recognition and prevention of unsafe working conditions. OSHA regulations are emphasized. F, S

TECH 3143 TECHNICAL PRESENTATIONS
Extensive practical exercises in research, reading and writing of technical descriptions, explanations of processes, instructions, service manuals, progress reports and industrial proposals. Prerequisites: ENGL 1213 F, S

TECH 3173 ENVIRONMENTAL REGULATIONS
A study of the significant acts of environmental legislation, the role of various federal agencies, the history of environmental regulation and other environmental concerns. SE

TECH 3263 MACHINE DRAFTING I
Drawing machine parts with emphasis on auxiliary views, sections and dimensioning. Computers will be used for producing drawings. Prerequisites: TECH 1203, F, S

TECH 3413 PRODUCTION PROCESSES
The study of industrial materials and processes from an engineering viewpoint. Prerequisite: TECH 2513. S

TECH 3463 MANUFACTURING OPERATIONS I
The study of management, productivity, quality, design, and work measurement in industry. F

TECH 3513 MATERIALS TESTING AND ANALYSIS
Testing materials for compression, tension and shear, using modern testing and measuring equipment. Prerequisites: MATH 1513 or MATH 1613. F

TECH 3523 FABRICATION PROCESSES II
Application of precision measuring instruments, foundry practices, ferrous metal heat treating, traditional industrial machine tools and a study of powder metallurgy. Prerequisite: TECH 2513. S

TECH 3613 POWER SYSTEMS
A study of energy sources, the devices that convert energy into useful work, and the control and transmission of power through mechanical units and fluids. F, S

TECH 3823 INDUSTRIAL ELECTRONICS
A study of machine controls and processes. Topics include solenoids, relays, sensors, contactors, switches, timers, counters, analog control, and introductory programmable controllers. Prerequisite: TECH 2713. FO

TECH 3833 COMMUNICATIONS ELECTRONICS
A study of wireless techniques for communicating voice, data, and visual information. The course covers AM, FM, UHF, and microwave techniques. Prerequisite: TECH 2713. F

TECH 3843 TELECOMMUNICATIONS
A study of wired techniques for communicating voice, data, and visual information. The course covers telephony, VoIP, networking circuits and protocols, and basic wiring metrics. Prerequisite: TECH 2713. S

TECH 4000-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)
Specified topic in technology. Credit one to four semester hours. D

TECH 4011-4 SEMINAR IN TECHNOLOGY (TOPIC)
Group study of specified topics in technology for undergraduate students. Credit one to four semester hours. D

TECH 4123 INDUSTRIAL SUPERVISION
Principles and practice of industrial supervision and leadership are presented. Topics include the duties and responsibilities of the supervisor in an industrial setting. Specifically communication, group dynamics, employee behavior, ethics, current training techniques, health and safety, labor relations, and the supervisor’s responsibility for productivity and quality are addressed. SO

TECH 4223 ELECTRONICS CAPSTONE
A culminating experience for senior electronics students to research and design a practical electronic circuit. Students are required to design, prototype, and manufacture an electronic device. Prerequisite: Senior status in Electronics Engineering Technology. S

TECH 4243 3D CAD SOLIDWORKS
An advanced course in 3D computer applications. Parametric model drawings, assembly, presentation, and detail drawings are produced using Solidworks software. F, S

TECH 4373 ECONOMIC DECISION ANALYSIS
The course is designed to provide the student with an understanding of methods and practices for evaluating the economic impact of decisions concerning products and processes and an ability to analyze financial documents used to assess organizational performance. Prerequisite: MATH 1513. S

TECH 4433 QUALITY CONTROL
The study of statistical process control and quality management techniques. Prerequisite: ECONO 2463 or MATH 3413. F

TECH 4454 COMPUTER AIDED MANUFACTURING (CAM)
Applications, operations, and evaluation of computer-integrated manufacturing and design systems. Prerequisite: TECH 1203. S

TECH 4493 MANUFACTURING OPERATIONS II
Economic aspects of industry and manufactured processes. Prerequisite: TECH 3463. S

TECH 4514 MACHINE TOOL PROCESSES
Provides advanced activities related to industrial processes, industrial machines and characteristics of machine tools. Additional topics include safety operating procedures, precise measuring instruments, advanced foundry practices, and characteristics of metal and their behavior during manufacturing processes. Prerequisite: TECH 3523. F

TECH 4813 NETWORKING & DISTRIBUTED CONTROLS
A study of communication networks commonly found in commercial and industrial settings. Common computing networks and industrial control networks are addressed. Corequisite: TECH 4813L. Prerequisite: TECH 1713. FE

TECH 4833 MICROPROCESSORS & EMBEDDED CONTROLS
An exploration of the hardware and software of embedded control systems and microprocessors. Focus is placed upon microprocessor programming, auxiliary requirements, interfaces, and control. Prerequisite: TECH 2813. FO
TECH 4843 INDUSTRIAL CONTROLS
A study of current practice of controlling equipment and machines. Emphasis is placed on control systems and schemes using programmable controllers. Corequisite: TECH 4843L. Prerequisite: TECH 1713. FE

TECH 4900 ORIENTATION TO INDUSTRIAL INTERNSHIP
Non-credit course to be completed before internship. Students will develop: personal resume, letter of application, cover letter, and formulate positive interviewing techniques to be used in obtaining an internship. Prerequisite: Junior Standing. S

TECH 4903 MANUFACTURING ENTERPRISES
A study of the manufacturing industry that emphasizes planning and production aspects. Students will establish a manufacturing corporation then develop, produce and market a product. D

TECH 4913 INDUSTRIAL INTERNSHIP
Student must complete a minimum of 160 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. Prerequisite: TECH 4900. D

TECH 4916 INDUSTRIAL INTERNSHIP
Student must complete a minimum of 320 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. Prerequisite: TECH 4900. SU

TECH 3013 THEORY OF FLIGHT
This course is offered as private pilots' ground school and consists of instruction in basic theory of flight computer, federal aviation regulations and radio navigation service of aircraft. D

TECH 3023 IN-FLIGHT INSTRUCTION
Meets the flying requirements for a Private Pilot Certificate. Includes all maneuvers and cross-country flying required by the Federal Aviation Administration for issuance of a Private Pilot Certificate. Requires a minimum of 20 flight hours with an instructor and 20 hours of solo flight. D

TECH 3033 ADVANCED THEORY OF FLIGHT
Ground school instruction covering advanced aviation technology, aerodynamics, advanced navigation computers and plotters. Fulfills ground school needed for passing new private pilots' written exam. D

TECH 3093 COMMERCIAL PILOTS' GROUND SCHOOL AND FLIGHT LAB
Covers a review of private pilot requirements and fulfills 80 hours ground school instruction needed for passing commercial pilots' written exam. D

REACH HIGHER DEGREE COMPLETION PROGRAM

Organizational Leadership

ORGL 3113 FOUNDATIONS OF ORGANIZATIONAL LEADERSHIP AND PERSONAL DEVELOPMENT
This course is an introduction to the Organizational Leadership Bachelor of Science Program. Essential components will include: overview of program expectations; principles of adult learning; resources for success, including library, campus and online resources and mentoring relationships; personal wellness/stress and time management techniques; study and test-taking skills; and basic computer skills for working in an online environment. Prerequisite: Admission to the Reach Higher/ORGL program.

ORGL 3223 PROFESSIONAL COMMUNICATION
A study of communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation methods. Prerequisite: ENGL 1113, ENGL 1213, COMM 1313. Open to admitted ORGL program students (as required course) and to non-business major (as free elective).

ORGL 3333 DATA ANALYSIS AND INTERPRETATION
This course will enable the student to develop an understanding of the application and interpretation of basic data analysis. Essential components and course content will include basic data analysis from a user perspective. Hands-on exercises will enable students to utilize Excel to solve problems and interpret results. Prerequisites: MATH 1513 and Junior standing. Open to admitted ORGL program students (as required course) and to non-business majors (as free elective).

ORGL 3443 SURVEY OF FISCAL MANAGEMENT
A managerial overview of fiscal management within organizations. Essential components and coursework content will include: understanding the components and articulation of financial statements; knowledge and application of financial ratios leading to an understanding of organizational performance across time and in comparison to industry standards; utilization of financial information in the acquisition of capital and budgeting decisions; and rudimentary understanding of cash flows. Prerequisite: Junior Standing. Open to admitted ORGL program students (as required course), to business majors (as business elective), and to non-business majors (as free elective).

ORGL 4113 ETHICS AND ORGANIZATIONS
This course is designed to examine the dynamics of workplace and personal ethics through the study of basic philosophical theories. Essential components and course content will include: leadership in the context of self-governance; responsibility; adherence to principles; integrity; and constancy of purpose. Current case studies will be used to apply ethical theories. Prerequisite: Junior Standing. Open to admitted ORGL program students (as required course), to business majors (as business elective), and to non-business majors (as free elective).

ORGL 4223 THE INDIVIDUAL, THE ORGANIZATION, AND SOCIETY
An examination of contemporary issues that affect organizations. Essential topics include environmental stewardship; social responsibility of the organization; effects and implications of globalization; the status of individual freedom within the organization; diversity; and the ramifications of technological change. This seminar course will be organized around student discussion and topical papers. Prerequisite: Junior standing. Open to admitted ORGL program students (as required course), to business majors (as business elective), and to non-business majors (as free elective).

ORGL 4333 LEADING AND MANAGING
This course is a study of theories that influence leadership and management with application to a variety of work situations. Essential components and coursework content will include: basic leadership and behavior styles; negotiation; critical thinking; change; conflict resolution; ethics and social responsibility; and diversity in the workplace. Assessment of personal leadership abilities and personality traits will be included. Prerequisites: ENGL 1113 and ENGL 1213 and Junior standing. Open to admitted ORGL program students (as required course), to business majors (as business elective), and to non-business majors (as free elective).

ORGL 4443 MARKETS AND STAKEHOLDERS
This course introduces the student to the concept of markets and stakeholders. Essential components and course content will include: an overview of competitive markets; buyer behavior; development of new markets and products; marketing communication; distribution channels; pricing; and marketing mix strategies. It will include a discussion of external environmental factors and stakeholder analysis. Students will be able to evaluate market needs, select target markets and develop an appropriate market mix. Prerequisites: Junior Standing. Open to admitted ORGL program students (as required course) and to non-business majors (as free elective).

ORGL 4553 CAPSTONE
This course provides the student the opportunity to integrate concepts and theories covered in the core with their area of focus. Students will design and implement a capstone project related to their area of focus culminating in a written and oral presentation. This course must be taken in the student’s final enrollment period.
ORGL 4993 PROFESSIONAL INTERNSHIP
Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. Prerequisite: Completion of other ORGL required courses in major or minor program.
SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES

ALLIED HEALTH SCIENCES

The Allied Health curricula are structured to provide competence in certain allied health sciences with majors in Health Information Management, Health Care Administration, and Health Science. Bachelor of Science degrees may be obtained in each of the majors listed above.

Allied Health

ALHLT 1401 ALLIED HEALTH CAREERS
An investigative review of career opportunities in the allied health sciences. The role of allied health professionals with present and projected needs is discussed and evaluated. Includes two hours of lecture per week for the first eight weeks. F, S

ALHLT 2045 EMERGENCY MEDICAL SERVICES I
Emergency Medical Responder (EMR) training providing knowledge/skill for lifesaving interventions while waiting for/assisting higher level EMS personnel at ER sites & during transport. Includes EMS systems, operations, research, workforce safety and wellness, documentation, system/therapeutic communication, medical/legal ethics, anatomy/physiology, medical terminology, pathophysiology, lifespan development, public health, pharmacology, airway management, respiration, artificial ventilation, patient assessment, principles of medicine, shock, resuscitation, trauma & special patient populations. Corequisite: 2045L. F, S (1st 8 Weeks)

ALHLT 2055 EMERGENCY MEDICAL SERVICES II
Emergency Medical Technician (EMT) training providing advanced knowledge/skill for care/transportation of critical and emergency patients. Course includes advanced training in EMS systems, operations, research, workforce safety/wellness, documentation, system/therapeutic communication, medical/legal ethics, anatomy/physiology, medical terminology, pathophysiology, lifespan development, public health, pharmacology, airway management, respiration, artificial ventilation, patient assessment, principles of medicine, shock and resuscitation, trauma and special patient populations. Corequisite: 2055L. Prerequisites: ALHLT 2045 and 2045L. F, S (2nd 8 Weeks)

ALHLT 2066 ADVANCED EMERGENCY MEDICAL TECHNICIAN (AEMT)
The primary focus of the Advanced Emergency Medical Technician (AEMT) is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. The AEMT functions as part of a comprehensive EMS response under medical oversight. The AEMT performs interventions with basic and advanced equipment typically found on an ambulance. The AEMT is a link from the scene to the emergency health care system. Corequisite: 2066L. F, S. This course is the 3rd level and is off-site.

ALHLT 2453 MEDICAL TERMINOLOGY
Provides the building blocks for effective communication in the health care environment and teaches the foundation of prefixes, suffixes and root-words of Greek and Latin origin commonly used in medical vocabulary. Word part combination practices, pronunciation, and spelling is emphasized. The course presents a basic foundation of anatomy/physiology, and diagnostic/therapeutic modalities which are parallel to medical vocabulary. A basic introduction of pharmacological principles and common drugs used in medical treatment is also introduced. Three hours of lecture per week. F, S, Online SU

ALHLT 3043 HEALTH STATISTICS
This is a course in health related statistics and statistical applications in the medical sciences. Statistical principles will be taught along with data collection and display techniques as well as utilization of formulas used by health care facilities. Two hours of lecture per week with 2 hours of lab for application techniques. Prerequisite: MATH 1513 or MATH 1143. Corequisite: ALHLT 3043L. F, S, Online & Traditional

ALHLT 3053 ADVANCED MEDICAL TERMINOLOGY
A continuation of ALHLT 2453 Medical Terminology focusing on a more in-depth study of medical vocabulary. Students will use basic medical terminology knowledge to interpret medical charts and investigate different types of medical writing and review. Prerequisite: ALHLT 2453. F, S, Online

ALHLT 3073 DIAGNOSTICS, DRUGS, AND THERAPEUTICS
An introduction to pharmacology that includes investigation into the history of drugs, drug design, routes of administration, and develops a basic understanding of drug categories used to treat different body systems. Laboratory measures and diagnostic tests will also be explored. Prerequisite: ALHLT 2453. F, S, Online

ALHLT 3183 CULTURAL COMPETENCE IN HEALTHCARE
An introduction of cultural awareness and sensitivity as it relates to healthcare and the professional environment with emphasis on strategies needed to provide culturally competent care. The course will explore cultural beliefs about health and illness and will discuss the impact of cultural and ethnic issues in the healthcare environment and the professional workplace. Three hours of lecture in an online format per week. S, Online

ALHLT 3193 THE U.S. HEALTHCARE SYSTEM
An overview of the methods by which health care services are provided and financed in the United States including access and delivery along the health care continuum. Three hours of lecture per week. F, S, Online SU

ALHLT 3861-4 HEALTH SCIENCE INTERNSHIP
A designated period of focused shadowing devoted to observing and participating in activities within health care professions. Students will serve under the mentorship of a licensed/certified practitioner in health care and document their experiences in a formalized manner. This elective is available to anyone who has an interest in pursuing a career in health care. Credit one to four semester hours. Prerequisites: ALHLT 3193 and ALHLT 4043. F, S, SU

ALHLT 3933 HEALTHCARE MANAGEMENT
Strategic Management and Finance in Healthcare. Principles of management and leadership as related to health care organizations including organizational behavior, strategic management of human resources, considerations relative to cultural competency and diversity, collective bargaining, management of costs and revenue and implementation of policies related to quality of care and services. Three hours of lecture per week. F, S, SU, Online all semesters

ALHLT 3963 HEALTHCARE PROJECT MANAGEMENT
An upper level course for students in various healthcare programs. All students will acquire life skills necessary to succeed as an employee in healthcare. These skills include strategic planning, team building, project management, organizational leadership & governance and regulatory compliance. All students will be required to participate in a semester long service learning team project. Prerequisite: ALHLT 3933. F, S

ALHLT 3972-8 HEALTH CARE INTERNSHIP
A designated period of practical experience devoted to serving an apprenticeship in health care administration. Students will serve under selected administrators in the areas of hospital, long term care, mental health care, home health, governmental health, voluntary health, and health research project administration. Credit two to eight semester hours. Prerequisite: ALHLT 3963. F, S, SU
Healthcare law, ethics, and privacy. An introduction to the U.S. Legal System with subsequent focus on legal implications relative to the delivery of health services including privacy and security of health information. Three hours of lecture per week. F, S, SU, Online all semesters

HIM 4074 PATHOPHYSIOLOGY
This course analyzes structure and function of the human body related to disease and injury with a focus on processes within the body that result in the signs and symptoms of disease. Four hours of lecture per week. Prerequisite: ALHLT 2453 and BIOL 3704, F, S

HIM 4081 HEALTH SCIENCE SENIOR SUMMIT
A capstone course designed to offer the undergraduate health science student the opportunity to integrate the health care practices and principles they have learned throughout their academic curriculum. The course will focus on preparing the student for the next phase of their health care career be it entry into the health care workforce or entry into the next level of their chosen professional program. Senior Standing. F (1st 8 Weeks)

HIM 4093 EPIDEMIOLOGY
Factors that influence the occurrence, distribution, control, and prevention of disease will be examined. Emphasis is on infectious disease problems, but noninfectious diseases are considered. Three hours of lecture per week. F, S, Online SU

HIM 4123 HEALTHCARE REVENUE CYCLE
This Revenue Cycle course provides a firm foundation in healthcare financial management. The course will teach students the skills necessary to evaluate the performance of revenue cycle systems and processes. This course enables students to develop an understanding of the components of the revenue cycle, the best methods of bench-marking performance, and proven methods of improving cash flow. In addition, students will learn about the latest technology, business office staffing, resource management, and recent government regulations related to revenue cycles. F, Online

Professional Health Information Management Courses

HIM 3033 INTRO TO HEALTH INFORMATION
An introduction to the field of health information. Centers around basic functions of a Medical Record/Health Information Department. Two hours of lecture and three hours of lab per week. Corequisite: HIM 3033L, F, Online

HIM 3122 INTRO TO ELECTRONIC HEALTH RECORDS
This course is intended for individuals who are interested or involved in electronic health records (EHRs). Provides value to students as they are drawn into the challenges & improvements enabled by EHRs. The EHR is the “bridge to everywhere.” It bridges the diverse roles of many medical specialties and allied healthcare occupations. The EHR must bridge the gap between medical data and decision-making and the limitations of unaided human cognition. The EHR must be a key enabler between growing medical knowledge and daily practice in institutions, clinics and offices around the USA. Two hours of lecture per week. S, Online

HIM 3123 ADVANCED ELECTRONIC HEALTH RECORDS
This course will continue to build upon concepts presented in HIM-3022. Most healthcare executives are recognizing the EHRs are essential for doing business today. The changes that accompany the computerization of health information are huge. The advanced EHR course will provide the latest trends and applications related to EHRs and an in-depth understanding of specific key areas associated with EHRs within the US healthcare system. Students will gain insight into elements of the EHR process, implementation, and ongoing management of EHR systems. Corequisite: HIM 3123L. Prerequisite: HIM 3122, F, Online

HIM 3333 CODING I
This course provides information on health related coding systems which are utilized for data retrieval and reimbursement by type of service. ICD-9-CM coding principles are covered. Data retrieval relating to manual or automated systems are discussed. The course includes two hours of lecture and three hours of lab per week. Corequisite: HIM 3333L. Prerequisite: HIM 4074 and HIM 3352, F, Online

HIM 3343 CODING II
This course provides information on CPT coding principles and the outpatient prospective payment system as well as effective management of coding services for both inpatient and outpatient systems. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. Prerequisite: HIM 3333. Corequisite: HIM 3343L, S, Online

HIM 3363 HEALTHCARE COMPLIANCE AND RISK MNGMT
This course will give students a practical understanding of the laws and regulations encountered daily by healthcare compliance professionals. It will provide students with an ability to identify specific regulatory issues present in the healthcare environment and understand penalties associated with violations of such regulations. Students will learn to conduct basic legal research and where to find resources to interpret healthcare regulations. F, Online

HIM 3453 HEALTHCARE REIMBURSEMENT
Healthcare firms are very unique in the manner in which they receive compensation for the service that they provide. In this course students will learn why the revenue function is so different for healthcare firms as compared to other industries. The course will also provide an overview of various types of reimbursement and classifications systems utilized in collecting, retrieving and maintaining clinical data utilized in the U.S. for many types of healthcare facilities. The prospective payment system utilized by CMS is of primary focus as well as CMS contract oversight activities. S, Online

HIM 4023 HEALTH INFORMATION APPLICATION
Presents information on various regulatory, ancillary, and specialty areas within the field of Health Information Management. Includes a study of utilization review, accrediting agencies, cancer registry, JCAHO and Medicare requirements, mental health, medical staff services, mental health records, ambulatory care, long-term care and other types of alternate care sites. The course includes two hours of lecture and three hours of lab per week. Corequisite: HIM 4023L, S, Online

HIM 4033 HEALTH INFORMATION MANAGEMENT
This course provides information on managerial aspects of Health Information Management. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. HIM Senior Standing Only. Corequisite: HIM 4033L, S

HIM 4051 PROFESSIONAL PRACTICE
Professional practice experience in affiliate hospital medical record/health information departments and other ancillary health related organizations. Designed for applications of classroom activities in a clinical setting. Offered Fridays each fall semester for senior students and each spring semester for junior students. Includes weekly review session. Online

HIM 4063 REGISTERED HEALTH INFORMATION ADMINISTRATOR EXAM PREPARATION COURSE
This course is designed to prepare a graduate of any CAHIIM Accredited RHIA program a set study and preparatory method for the national RHIA exam. The course will include a self-guided schedule by the instructor to allow the student to prepare and practice for the National registry exam. SU, Online

HIM 4073 HEALTH DATA ANALYSIS
This course consists of acquiring, managing, analyzing, interpreting, and transforming data into accurate, consistent, and timely information. Tasks include: analysis of health data using appropriate testing methods to generate findings for interpretation; interpretation of analytical findings by formulating recommendations for clinical, financial, and operational processes; and the ability to validate results through qualitative and quantitative analysis in order to confirm findings. Students will learn basic research design, methods and be able to explain the role of biomedical research. Prerequisites: HIM 4023 & ALHLT 3043 and lab, S, Online
HIM 4082 HIM PROFESSIONAL REVIEW
A capstone course designed to review and learned HIM professional applications, practice, and principles to assist in preparing the student to successfully complete the national registration exam and to be able to successfully meet the entry level competencies of the HIM profession. HIM Senior Standing Only. S

HIM 4093 HEALTH DATA INFORMATICS
This course will introduce Health Informatics including definitions, theory, technologies, workflow and expectations in the informatics field, tools, and professional organizations. There will be a focus on healthcare informatics as it brings together healthcare–generated information with technology for the purpose of improving quality of care in a cost-effective manner.

HIM 4113 HEALTHCARE QUALITY MEASURES
This course examines strategies by which healthcare facilities identify healthcare quality issues within their organization, utilize best practice guidelines to implement improvement strategies and establish metrics from which success is measured. Healthcare quality reporting strategies are explored such as Joint Commission Core Measures and Sentinel Events and the CMS Q10 Clinical Warehouse. Role delineation related to healthcare quality/performance improvement is delineated for the healthcare administrator as well as the professional and medical staff. F, Online

HIM 4153 MANAGEMENT PRACTICUM
A five-week professional practice experience in the Medical Record/Health Information Department of a selected facility. Includes observation/practice in the functional and managerial activities, followed by a one-week review session. Scheduled during the second eight weeks of the spring semester, senior year. HIM Senior Standing Only.

OCCUPATIONAL THERAPY ASSISTANT

OTA 1013 INTRO TO OCCUPATIONAL THERAPY
This course is designed to establish a knowledge base for the prospective OTA in that it emphasizes the human element of health care and the role the Occupational Therapy Assistant performs in providing this component. It focuses on the history and philosophy and gives an overview of assessment, evaluation and performance areas as well as the tools of practice. Theoretical frameworks and approaches and basic concepts of human development are also covered. Prerequisites: General Education Requirements and acceptance into the Occupational Therapy Assistant Program. F

OTA 1023 KINESIOLOGY FOR OTA
This course builds on basic anatomic and physiologic concepts of human movement, emphasizing the kinesiological, anatomic and functional aspects of the skeletal musculature of the human body and their application to human motion. Prerequisites: General Education Requirements and acceptance into the Occupational Therapy Assistant Program. F

OTA 1102 THERAPEUTIC MEDIA
The purpose of this course is to acquaint the student with basic craft techniques which may be utilized in a variety of treatment settings. Properties of crafts will be discussed and their application to different populations. Prerequisites: General Education Requirements and acceptance into the Occupational Therapy Assistant Program. F

OTA 2002 HEALTH CARE SYSTEMS AND OCCUPATIONAL THERAPY MANAGEMENT
This course will teach the OTA student the trends of health care in the past, present, and future. It will also explore various occupational therapy management styles, techniques, and applications. Proper documentation, methods, and reasoning for quality assurance will be covered. This course will also deal with fiscal management of occupational therapy service, the marketing of occupational therapy staff, and the importance and variety of research in occupational therapy services. Prerequisites: Acceptance into the Occupational Therapy Assistant program.

OTA 2022 FIELDWORK I-A
This fieldwork experience will consist of exposure in various settings where occupational therapy services may be present. These experiences will allow the student to observe occupational therapy or other health related services. Students will do this to gain a better understanding of what OT is, where it may be found, and how it fits in with other related services. Students will also use this experience to develop professionalism, observation, and documentation skills. Prerequisites: Acceptance into the Occupational Therapy Assistant program. F

OTA 2102 THERAPEUTIC ACTIVITIES
This course provides the student with experience conducting individual and group activities, promoting the idea of therapeutic use of self. This course will acquaint the student with life skills activities, games, and everyday coping skills. This course will emphasize adaptation techniques for a variety of life activities and their purpose in treatment, and will introduce a variety of additional therapeutic techniques and applications. Prerequisites: Satisfactory completion of Semester I in Occupational Therapy Assistant specific course work. F

OTA 2113 PHYSICAL DYSFUNCTION AND TREATMENT TECHNIQUES
This course includes the study of occupational therapy principles, techniques of evaluation, and methods of treatment for individuals with problems in physical function. This course will present assessment and evaluation of occupational performance, therapeutic mechanism, and intervention strategies in treating individuals with neurological and orthopedic dysfunction as well as discharge planning and written documentation of client behavior and performance. Prerequisites: Satisfactory completion of Semester I in Occupational Therapy Assistant specific course work. S

OTA 2122 FIELDWORK I-B
In this course students will be able to initiate and apply concepts and techniques learned during academic preparation for practical situations. Students will work with clinical instructors, patients/clients, and team members in a therapeutic milieu. Written documentation and actual treatment will be the focus. Prerequisites: Satisfactory completion of Semester I of Occupational Therapy Assistant specific course work. S

OTA 2133 PEDIATRIC CARE IN OT
This course offers a comprehensive study in the approach of OT treatment in pediatrics. The course content will include normal development, diagnostic problems, frames of reference, documentation, and theory as it relates to pediatric intervention. It will also cover family/caregiver issues as related to pediatric OT and an introduction to pediatric evaluations, and basic concepts to human development. Prerequisites: Satisfactory completion of Semester I Occupational Therapy Assistant specific course work. S

OTA 2143 ELDERCARE IN OCCUPATIONAL THERAPY
This course offers a wide variety of treatment programs, media and modalities useful in working with late-life adults. It includes a comprehensive review of the aging process, with all of its psychosocial and physical ramifications. It is also a study of concepts of aging and intervention techniques to be employed in different practice settings, and specific concerns of working with both the well elderly and those with dysfunction; individually or in groups. Prerequisites: Satisfactory completion of Semester I Occupational Therapy Assistant specific course work. S

OTA 2153 PSYCHOSOCIAL DYSFUNCTION AND TREATMENT TECHNIQUES
This course includes the principles and techniques of evaluation and treatment for individuals who present emotional, cognitive, and psychosocial problems. Intervention strategies with selected individuals with psychosocial disturbances are covered. Emphasis is placed on oral and written documentation of client behavior and treatment techniques. Prerequisites: Satisfactory completion of Semester I in Occupational Therapy Assistant specific course work. S

OTA 2203 FIELDWORK II-A
This fieldwork experience enables the student to apply knowledge and skills learned in the classroom to practical situations. Students will be
assigned to various clinical settings. The students will collaborate with fieldwork educators, client/patients, and team members. They will practice using occupation to restore wellness in clinical settings. 

**Prerequisites:** Satisfactory completion of Semester 1 and Semester 2 of Occupational Therapy Assistant specific course work. SU

**OTA 2212 DISEASE PATHOLOGY**
This course is designed to help OTA students become familiar with the various mental and physical health problems commonly dealt with in Occupational Therapy practice. This course will introduce the etiology, prognosis, signs and symptoms of these health problems. **Prerequisites:** Acceptance into the Occupational Therapy Assistant program. F

**OTA 2213 FIELDWORK II-B**
This fieldwork experience is a continuation of OTA 2203, Fieldwork II-A. **Prerequisites:** Satisfactory completion of Semester 1 and Semester 2 of Occupational Therapy Assistant specific course work; OTA 2203 Fieldwork II-A. SU

**PHYSICAL THERAPIST ASSISTANT**

**PTA 1012 INTRODUCTION TO PHYSICAL THERAPY**
This course will present the purpose, philosophy, and history of physical therapy and its relationship to other health care delivery systems. The student will be able to delineate the roles of physical therapy personnel, identify requirements for medical communication and documentation, and be made aware of the medical-legal aspects including professional ethics. F

**PTA 1023 BASIC HUMAN NEEDS**
The student will be able to define “normal” in respect to vital signs, posture, range of motion and muscle function. He/she will be able to perform accurate testing of muscle strength and joint motion. The student will also be instructed in activities of daily living, proper body mechanics, and transfer techniques. Practical application of these techniques will be practiced in the laboratory. F

**PTA 1113 THREATS TO BASIC HUMAN NEEDS**
The student will identify underlying circumstances and phases of disease and dysfunction, perform techniques to prevent secondary disabilities using special equipment as needed. Practical application of these techniques will be practiced in the laboratory. S

**PTA 1213 PAIN MANAGEMENT I**
Students will be instructed in the various theories of pain, correctly positioning and draping patients for pain relief and for protection of modesty; heat/cold application, effectively administering massage and lymphapress intermittent pressure, relaxation and postural exercises; applying cervical and lumbar traction; paraffin, hydrotherapy; medical asepsis; and bandaging and dressing. Practical application of these techniques will be practiced in the laboratory. F

**PTA 1224 THERAPEUTIC EXERCISES I**
Instruction will be given on rehabilitation techniques and neurophysiological approaches to treatment. Joint mobilization, range of motion, aquatics, amputees, prosthetics, and orthotics are introduced. Students will identify architectural barriers and make modifications to overcome the limitations they impose. Gait-training techniques with assistive devices will be performed. Practical application of these techniques will be practiced in the laboratory. F

**PTA 2013 PAIN MANAGEMENT II**
Students will learn the principles and applications of various therapeutic modalities; electrotherapy, iontophoresis diathermy, biofeedback, laser, fluidotherapy, infrared, taping, ultrasound, and light therapy. Practical application of these techniques will be practiced in the laboratory. S

**PTA 2024 THERAPEUTIC EXERCISE II**
Therapeutic exercises related to children are presented. Developmental sequences and primitive reflexes are introduced. Students will be instructed in cardiopulmonary treatments including cardiac rehabilitation and chest physical-therapy techniques. Practical application of these techniques will be practiced in the laboratory. S

**PTA 2032 CLINICAL PRACTICUM I**
Clinical experience in local health care facilities to observe and practice PTA skills learned in class and lab sessions. Students will be under the supervision of a registered physical therapist and/or registered physical therapist assistant. F

**PTA 2112 PTA SYSTEMS/PROBLEMS**
The student will assist the physical therapist in selected evaluation treatment and administrative activities, summarize the progression of comprehensive rehabilitation programs for major disabilities, describe and utilize selected administrative records and charge systems in physical therapy, discuss measures for quality assurance and cost containment, review proper ways to write a resume, and review for national board examinations. S

**PTA 2133 CLINICAL PRACTICUM II**
Students are given the opportunity to practice PTA skills which have been acquired through the PTA Program in Physical Therapy Departments. Students will be under the supervision of a registered physical therapist and/or registered physical therapist assistant. S
NURSING

(Professional Nursing Courses)

NURS 2212 INTRODUCTION TO PROFESSIONAL NURSING
The profession of nursing is explored through the philosophy and conceptual framework of the School of Nursing. The historical development of nursing and nursing education are linked to current nursing practice. Ethical and legal aspects of nursing, as they affect the student entering nursing, are incorporated into the course. Student accountability and professionalism are introduced and developed. Two hours theory.

NURS 3126 COMMUNITY NURSING
The emphasis is on a broad scope of experiences, from maintenance of health and prevention of illness, to promotion of wellness of communities, families, and individuals. Corequisite: NURS 3126L.

NURS 3156 FUNDAMENTALS OF NURSING
Emphasis is on the acquisition and use of assessment and technical tools for the delivery of health care. Prerequisites: Admission to Nursing Major and NURS 2212. Corequisites: NURS 3156L and NURS 3283.

NURS 3236 ACUTE AND CHRONIC CARE I
The student will explore the holistic health needs of adult clients. Emphasis is on application and analysis of competency necessary to restore health of the acutely ill client. Corequisite: NURS 3236L.

NURS 3256 CHILD HEALTH NURSING
Emphasis on nursing care of the child from infant through adolescence. Corequisite: NURS 3256L.

NURS 3273 NURSING RESEARCH
Emphasis is on skill competency in the use of the research process in nursing practice and application of evidence-based practice.

NURS 3283 PHARMACOLOGY
Focuses on therapeutics of pharmacological principles and theory as applied to nursing in the dosage calculation and administration of drugs. Prerequisites: Admission to the major & NURS 2212. Corequisite: NURS 3156.

NURS 4001-02 INDIVIDUAL STUDY IN NURSING
Individual study of specified topic in nursing. Credit one to two semester hours. Prerequisite: Admission to upper division nursing major and signature of Associate Dean of Nursing.

NURS 4143 CHALLENGES FOR NURSES IN TODAY’S HEALTHCARE SYSTEM
Current issues in healthcare that impact nursing practice with an emphasis on patient safety.

NURS 4286 NURSING LEADERSHIP
An exploration of leadership and management concepts and their impact on nursing practice and the delivery of health care. Leadership and management competencies will be implemented in a variety of practice settings. Corequisite: NURS 4286L.

NURS 4346 ACUTE AND CHRONIC CARE II
Emphasis on care of the adult and pediatric patient in the critical care setting. Corequisite: NURS 4346L.

NURS 4356 FAMILY HEALTH
Emphasis is on understanding and caring for the expanding family’s health care needs including health promotion and health restoration throughout the life span. Corequisite: NURS 4356L.

NURS 4376 PSYCHOSOCIAL NURSING
Emphasizes the psychodynamics of health and use of the therapeutic process in the prevention, promotion, restoration, and/or maintenance of mental health among individuals, families and groups. Corequisite: NURS 4376L.

NURS 4383 NURSING ELECTIVE
The exploration of selected professional, political, social, legal and/or ethical theory as related to nursing practice in a specified practice setting. Corequisite: NURS 4383L.

RN to BSN Courses

NURS 4603 BRIDGING NURSING PARADIGMS
The profession of nursing is explored through the philosophy and conceptual framework of the School of Nursing. The historical development of nursing and nursing education are linked to current nursing practice. Concepts unique to career ladder nurses are explored in depth. Taken in the first semester of nursing course work. Three hours theory. Prerequisite: Admission to the RN to BSN Program.

NURS 4613 NURSING STATISTICS AND EVIDENCE-BASED PRACTICE
This course emphasizes competency in use of the research process and statistics in nursing practice. Topics include the basics of research and statistics, descriptive and inferential statistics, parametric and nonparametric tests, types of tests, reliability and validity, evidence-based practice, the research process, and research critiques. Three hours theory. Prerequisite: NURS 4603.

NURS 4623 WELLNESS THROUGH HEALTH PROMOTION
Emphasis on health promotion and illness prevention throughout the lifespan, and acquisition/review and use of assessment skills. Holistic health and wellness-focused interventions are introduced. Three hours theory. Prerequisite: NURS 4603.

NURS 4633 ETHICS AND CARING
Exploration of the legal and ethical aspects of professional nursing practice when caring for clients at various places along the health continuum. Emphasis will be given to the ethics of care as a paradigm for ethical decisions. Prerequisite: NURS 4603.

NURS 4643 THEORY AND PRACTICE ELECTIVE
The exploration and application of selected professional, political, social, legal, and/or ethical theory as related to nursing practice in a specified practice setting. Prerequisite: NURS 4603.

NURS 4653 NURSING INFORMATICS
Students explore and analyze the use of electronic technology to manage practice in a specified practice setting. Three hours theory. Prerequisite: NURS 4603.

NURS 4663 COMMUNITY BASED NURSING ACROSS THE HEALTH CONTINUUM
Exploration of the theoretical concepts and clinical practice of nursing in and with communities. Community nursing practice with the goal of health promotion and maintenance will be emphasized. Clinical experiences will focus on the development and implementation of practice strategies to facilitate the health of entire communities. Three hours theory and practicum project. Prerequisite: NURS 4603.

NURS 4673 CONTEMPORARY NURSING LEADERSHIP
An exploration of leadership and management concepts and their impact on nursing practice and the delivery of health care. Leadership and management competencies will be implemented in a variety of practice settings. Three hours theory and practicum project. Prerequisite: NURS 4603.

NURS 4683 ADVANCED PHYSICAL ASSESSMENT
Students acquire advanced physical assessment and clinical reasoning skills, and apply comprehensive assessment skills to case studies depicting a variety of lifespan stages and settings. The emphasis is on
health promotion, disease prevention, risk assessment, and nursing intervention. Three hours theory. **Prerequisite: NURS 4603**

**NURS 4693 ISSUES AND CONCEPTS FOR PROFESSIONAL PRACTICE**
An exploration of the impact of advanced education on practice and the nurse’s response to current trends and issues influencing health care delivery. Emphasis is placed on the interface between individual and professional development. Taken in the last semester of nursing course work. Three hours theory. **Prerequisite: NURS 4603**
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