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Weatherford: Undergraduate Catalog 2016-2017

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Southwestern Oklahoma State University, "Weatherford: Undergraduate Catalog 2016-2017" (2016).
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Catalog 2016-2017

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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>.

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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 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, 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

ACCREDITING ORGANIZATION	PHONE NUMBER/FAX NUMBER/WEB SITE/E-MAIL ADDRESS	ADDRESS
ACCREDITATION COUNCIL FOR PHARMACY EDUCATION	Phone: (312) 664-3575 FAX: (312) 664-4652	20 North Clark Street, Suite 2500 Chicago, Illinois 60602-5109
ACCREDITATION COUNCIL ON OCCUPATIONAL THERAPY EDUCATION	Phone: (301) 652-2682 FAX: (301) 652-7711 E-mail: accred@aota.org	P.O. Box 31220 Bethesda, Maryland 20824-1220
ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS	Phone: (703) 917-9503 E-mail: info@abhes.org	7777 Leesburg Pike, Suite 730 Falls Church, Virginia 22043
AMERICAN CHEMICAL SOCIETY COMMITTEE ON PROFESSIONAL TRAINING	Phone: (202) 872-4589 FAX: (202) 872-6066 Web site: http://www.acs.org E-mail: cpt@acs.org	1155 16 th Street, N.W. Washington, D.C. 20036
AMERICAN MUSIC THERAPY ASSOCIATION, INC.	Phone: (301) 589-3300 FAX: (301) 589-5175 Web site: http://www.musictherapy.org E-mail: amta@musictherapy.org	8455 Colesville Road Suite 1000 Silver Spring, Maryland 20910
ASSOCIATION OF TECHNOLOGY, MANAGEMENT AND APPLIED ENGINEERING (ATMAE)	Phone: (630) 433-4514 FAX: (630) 563-9181 Web site: http://www.atmae.org E-mail: atmae@atmae.org	275 N. York Street, Suite 401 Elmhurst, Illinois 60126
COMMISSION ON ACCREDITATION FOR HEALTH INFORMATICS AND INFORMATION MANAGEMENT EDUCATION (CAHIIM)	Phone: (312) 233-1183 FAX: (312) 553-9616 Web site: http://www.cahiim.org	233 North Michigan Avenue Chicago, Illinois 60601-2208
COMMISSION ON ACCREDITATION IN PHYSICAL THERAPY EDUCATION	Phone: (703) 684-APTA (2782) FAX: (703) 684-7343 E-mail: http://www.apta.org	1111 North Fairfax Street Alexandria, Virginia 22314
COMMISSION ON ACCREDITATION OF ATHLETIC TRAINING EDUCATION	Phone: (512) 733-9700 Web site: http://www.caate.net FAX: (512) 733-9701	2201 Double Creek Drive, Suite 5006 Round Rock, Texas 78664
INTERNATIONAL ASSEMBLY FOR COLLEGIATE BUSINESS EDUCATION	Phone: (913) 631-3009 FAX: (913) 631-9154 Web site: http://www.iacbe.org E-mail: iacbe@iacbe.org	P.O. Box 25217 Overland Park, Kansas 66225
JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)	Phone: (312) 704-5300 FAX: (312) 704-5304	20 North Wacker Drive, Suite 900 Chicago, Illinois 60606-2901
NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC	Phone: (703) 437-0700 FAX: (703) 437-6312 Web site: http://nasm.arts-accredit.org E-mail: info@arts-accredit.org	11250 Roger Bacon Drive, Suite 21 Reston, Virginia 20190
COUNCIL FOR THE ACCREDITATION OF EDUCATOR PREPARATION	Phone: (202) 223-0077	1140 19 th Street, N.W. Suite 400 Washington, D.C. 20036
ACCREDITATION COMMISSION FOR EDUCATION IN NURSING, INC.	Phone: (800) 669-1656 ext. 362 FAX: (212) 812-0390 Web site: http://www.acenursing.org	3343 Peachtree Road NE, Suite 850 Atlanta, Georgia 30326
OKLAHOMA BOARD OF NURSING	Phone: (405) 962-1800 FAX: (405) 962-1821 Web site: http://www.youroklahoma.com/nursing	2915 N. Classen Boulevard, Suite 524 Oklahoma City, Oklahoma 73106
OKLAHOMA COMMISSION FOR TEACHER PREPARATION (OCTP)	Phone: (405) 525-2612 FAX: (405) 525-0373 Web site: http://www.octp.org E-mail: octp@octp.org	4545 N. Lincoln Blvd., Suite 275 Oklahoma City, Oklahoma 73105-3418
OKLAHOMA COUNCIL ON LAW ENFORCEMENT, EDUCATION AND TRAINING	Phone: (405) 239-5100 FAX: (580) 310-9143 Web site: http://www.ok.gov/cleet/	2401 Egypt Road Ada, Oklahoma 74820-0669
OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION	Phone: (405) 225-9100 FAX: (405) 225-9235 Web site: http://www.okhighered.org/	655 Research Parkway, Suite 200 Oklahoma City, Oklahoma 73104
ENGINEERING TECHNOLOGY ACCREDITATION COMMISSION (ETAC) OF THE ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY (ABET)	Phone: (410) 347-7700 FAX: (410) 625-2238 Web site: http://www.abet.org	415 North Charles Street Baltimore, Maryland 21201
THE HIGHER LEARNING COMMISSION NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS (NCA)	Phone: (800) 621-7440 FAX: (312) 263-7462	230 South LaSalle Street, Suite 7-500 Chicago, Illinois 60604

**Southwestern Oklahoma State University
Academic Calendar 2016-2017**

*Fall Semester 2016		
August 17	Wednesday	New Faculty Orientation
August 18	Thursday	New Student Orientation; New Faculty Orientation (continued)
August 19	Friday	Faculty Workshop; Enrollment for students who did not pre-enroll
August 22	Monday (8:00 a.m.)	Classwork begins
August 26	Friday (4:30 p.m.)	Last day to add classes
September 2	Friday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
September 5	Monday	Labor Day Holiday
October 14	Friday	1st 8 week classes end
October 17	Monday	2nd 8 week classes begin
October 19	Wednesday (10:00 p.m.)	Fall break begins
October 24	Monday (8:00 a.m.)	Classwork resumes
November 4	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
November 22	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
November 28	Monday (8:00 a.m.)	Classwork resumes
December 7	Wednesday (4:30 p.m.)	Last day to drop with Instructor permission
December 12-16	Monday - Friday	Final exams
December 16	Friday (10:00 p.m.)	Semester break begins
December 19	Monday (5:00 p.m.)	Final grades due
December 20	Tuesday	Semester ends

*Spring Semester 2017		
January 6	Friday	Enrollment for students who did not pre-enroll
January 9	Monday (8:00 a.m.)	Classwork begins
January 13	Friday (4:30 p.m.)	Last day to add classes
January 16	Monday	Martin Luther King Jr. Day (Holiday)
January 23	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 3	Friday	1st 8 week classes end
March 6	Monday	2nd 8 week classes begin
March 10	Friday (5:00 p.m.)	Spring break begins
March 20	Monday (8:00 a.m.)	Classwork resumes
March 31	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
April 26	Wednesday (4:30 p.m.)	Last day to drop with Instructor permission
May 1-5	Monday - Friday	Final exams
May 6	Saturday (10:00 a.m.)	Convocation
May 8	Monday (5:00 p.m.)	Final grades due
May 9	Tuesday	Semester ends

*Summer Semester 2017		
June 2	Friday	Enrollment for students who did not pre-enroll
June 5	Monday (8:00 a.m.)	Classwork begins
June 6	Tuesday (4:30 p.m.)	Last day to add classes
June 12	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
June 29	Thursday	Final exams for the 1st 4 week classes
July 3-4	Monday and Tuesday	Independence Day Holiday
July 5	Wednesday	2nd 4 week classes begin
July 14	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
July 24	Friday (4:30 p.m.)	Last day to drop with Instructor permission
July 26-27	Wednesday and Thursday	Final exams for the 2nd 4 week & 8 week classes
July 28	Friday (5:00 p.m.)	Final grades due
July 31	Monday	Semester ends

*See early enrollment dates listed here: <http://www.swosu.edu/resources/schedules.aspx>

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David Ralph; B.S., M.B.A., Ph.D.	Dean, College of Pharmacy
Chad Kinder; B.S., M.Ed., Ed.D.	Interim Dean, College of Professional & Graduate Studies
Sherron Manning; B.S., M.Ed.....	Dean, College of Associate and Applied Programs - Sayre Campus

ADMINISTRATIVE AND PROFESSIONAL STAFF

Kyle Bartel; B.A.....	Manager of Fine Arts Center
Randall Beckloff; B.S., M.A., Ph.D.....	Director of International Student Affairs
Todd Boyd; B.S., M.Ed.....	Director of Enrollment Management
Kendra Brown; A.A.S., B.A., M.A.	Director of Public Safety
Yolanda R. Carr; B.S., M.S., Ed.D.....	Director, Office of Sponsored Programs
Cynthia Dougherty; B.S., M.L.S.	Dean of Students & Director of Student Activities
Jason Dupree; B.F.A., M.L.I.S.	Director of Libraries
Marci Grant; B.S., M.B.A.	Director of Center for Excellence in Teaching & Learning
Kandy House; B.S.	Manager of University Press
Garrett King; B.A.	Assistant to the President for Institutional Advancement
Karen Klein; B.S.	Director of Information Technology Services
Jan Kliewer; A.A.S., B.S., M.Ed.....	Director of Assessment/Testing
Kim Liebscher; B.S., M.Ed., L.P.C.	Director of Counseling Services
Chad Martin; B.A., M.Ed.....	Director of Residence Life
Scott Miller; B.S., M.Ed.....	Director of Wellness Center
David Misak; B.S., M.B.A.	Director of Human Resources & Affirmative Action
Doug Misak; B.S., M.B.A.	Director of Center for Economic & Business Development
Shamus Moore; B.B.A., M.B.A.	Registrar
Rick Skinner; B.S.	Director of Physical Plant
Laura Smith; B.S.N., R.N.....	Director of Health Services
Duncan Taylor; B.S.....	Director of Student Center/Auxiliary Services
Lynne Thurman; B.A., M.Ed.	Director of University Initiatives
Todd Thurman; B.S., B.A., M.Ed.	Director of Athletics
Shelby Unruh; B.B.A., M.B.A.	Bursar
Jerome Wichert; B.A., M.A.	Director of Student Financial Services
Karen Wilson; B.S.	Web Designer
Wendy Yoder; B.A., M.Ed.....	Retention Management Coordinator

FACULTY

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

VERONICA AGUINAGA (2015)..... Education
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CYNTHIA ALBRIGHTSON (2012)..... Engineering Technology
Instructor; B.S., M.Ed., Southwestern Oklahoma State University.

TERI ALLEN (2009)..... Business & Computer Science
Instructor; B.S., M.B.A., Southwestern Oklahoma State University.

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 APPEDDU (2004)..... Pharmaceutical Sciences
Associate Professor; B.S., M.S., University of Kentucky; Ph.D., New
Mexico State University.

JIMENA ARACENA (2006)..... Biological Sciences
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MELODY ASHENFELTER (1987)..... Business & Computer Science
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State University; Ed.D., Oklahoma State University; C.P.A.

DORIE ASTLE (2013)..... Social Sciences
Associate Professor; B.S., M.S., Ph.D., Oklahoma State University; J.D.,
University of Tulsa College of Law.

SUE BALL (1991)..... Biological Sciences
Instructor; B.S.Ed., M.Ed., Southwestern Oklahoma State University.

AMY BARNETT (2005)..... Psychology
Director of School Counseling & School Psychometry Master's
Program/Associate Professor; B.S., M.S., Southwestern Oklahoma State
University; Ph.D., Oklahoma State University.

RANDY BARNETT (2009)..... Psychology
Chair & Associate Professor; B.S., M.S., Southwestern Oklahoma State
University; Ph.D., Oklahoma State University.

BOB BATTISTI (2013)..... Men's Basketball Coach
B.S., Minnesota State University; M.Ed., University of Minnesota.

MADLINE L. BAUGHER (1989)..... Business & Computer Science
Instructor; B.S., Southwestern Oklahoma State University; M.S., Texas
A&M University.

RICHARD W. BAUGHER (1976)..... Engineering Technology
Professor; B.A., Montclair State College; M.Ed., Ed.D., Texas A&M
University.

BRUCE BELANGER (2010)..... Education
Coordinator of Field Experiences/Instructor; B.S., M.Ed., Southwestern
Oklahoma State University.

JULIANA BELL (2013)..... Nursing
Instructor; B.S.N., Southwestern Oklahoma State University; M.S.,
University of Oklahoma Health Sciences Center.

DAVID BESSINGER (1984)..... Music
Chair and Professor; B.M.Ed., Baylor University; M.M., University of
Illinois at Champaign-Urbana, D.M.A., University of Oklahoma.

RANDY BEUTLER (2006)..... President
B.A., M.Ed., Southwestern Oklahoma State University; J.D., Taft Law
School.

GUY BIYOGMAM (2010)..... Mathematics
Associate Professor; B.S. University of Douala; M.S., University of
Yaoundé; Ph.D., New Mexico State University.

TAMMY BLATNICK (2007)..... Nursing
Instructor; B.S.N., Southwestern Oklahoma State University; M.S.,
University of Oklahoma Health Sciences Center.

LISA L. BOGGS (1992)..... Biological Sciences
Associate Professor; A.A., Eastern Wyoming College; B.A., M.A.,
Chadron State College; Ph.D., University of Wyoming.

ALLEN BOYD (2007)..... Education
Instructor; B.S., Southwestern Oklahoma State University; M.Ed.,
University of Oklahoma.

RUTH BOYD (2004)..... Vice President for Student Affairs
Associate Professor; B.S., M.B.A., Southwestern Oklahoma State
University; Ph.D., University of Oklahoma.

JOHN L. BRADSHAW (2004)..... Language and Literature
Assistant Professor; B.A., M.A., Northeast Louisiana University; M.A.,
University of Iowa.

SHERRI BROGDON (2012)..... Education
Assistant Professor; B.B.A., Midwestern State University; M.B.A.,
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KRISTA G. BROOKS (2011)..... Pharmacy Practice
Associate Professor; B.S., Pharm.D., Southwestern Oklahoma State
University.

NATHAN BROOKS (2014)..... Engineering Technology
Instructor; B.S., Southwestern Oklahoma State University; M.Ed.,
University of Central Oklahoma.

DAN R. BROWN (2001)..... Social Sciences
Assistant Professor; B.A., Oklahoma State University; J.D., University of
Tulsa.

TED BROWN (2014)..... Social Sciences
Assistant Professor; B.A., Cameron University; M.P.A., University of
Oklahoma; Ph.D., Texas A & M University.

BECKY L. BRUCE (2013)..... Social Sciences
Assistant Professor; B.A., Eastern New Mexico University; M.A.,
University of Nevada, Las Vegas; Ph.D., University of Alabama.

BRAD A. BRYANT (2008)..... Engineering Technology
Chair and Instructor; B.S., Oklahoma State University; M.S., Southwestern
Oklahoma State University.

MELINDA C. R. BURGESS (2003)..... Psychology
Professor; B.A., Colby College; M.A., Hollins College; Ph.D., Florida State
University.

STEPHEN R. BURGESS (1997)..... Psychology
Professor; B.A., Wake Forest University; M.A., Hollins College; Ph.D.,
Florida State University.

BARBARA BURNETT (2014) Softball Coach
B.S., M.Ed., Southwestern Oklahoma State University.

KYLE BUSH (2016) Excellence in Teaching and Learning
Instructor; B.A., Millsaps College; M.S., University of Southern
Mississippi; ABD, Auburn University.

ERIN C. CALLEN (2003) Pharmaceutical Sciences
Professor; B.S., Pharm D., Southwestern Oklahoma State University.

BRIAN D. CAMPBELL (1997) Chemistry and Physics
Professor; B.S., University of Wisconsin; M.S., Ph.D., University of Iowa.

MARY CARRELL (2014) Nursing
Instructor; B.S., Northeast Louisiana University; M.S., Pennsylvania State
University.

MARSHA CARMAN (2016) Art, Communication & Theatre
Instructor; B.S., M.Ed., Southwestern Oklahoma State University.

JASON CASH (2015) Language and Literature
Assistant Professor; B.A., Bridgewater College; M.A., Rutgers University-
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Associate Professor; B.A., University of Colorado; Ph.D., University of
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Assistant Professor; B.A., University of Oklahoma; J.D., University of
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HUNG-CHIEH CHANG (2005) Mathematics
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Assistant Professor; B.A., Gangneung-Wonju National University (South
Korea); M.A., Seoul National University (South Korea); M.A., Michigan
State University; M.A., Ph.D., University of Colorado at Boulder.

YU-LING CHEN (2013) Music
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MT, University of Kansas.

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Assistant Professor; Pharm.D., Southwestern Oklahoma State University.

DAN COCANNOUER (2008) Head Football Coach
B.S., M.S., Southwestern Oklahoma State University.

JOSH COLLINS (2012) Head Volleyball Coach
B.S., M.Ed., Southwestern Oklahoma State University.

KEVIN COLLINS (2004) Language and Literature
Associate Professor; B.A., San Francisco State University; M.A., San
Diego State University; Ph.D., University of Arkansas.

CHRISTIE COOK (2015) Language and Literature
Assistant Professor; B.A., B.S., Abilene Christian University; M.A., New
College of California; Ph.D., University of Texas at Arlington.

RICKEY D. COTHRAN (2014) Biological Sciences
Assistant Professor; B.S., M.S., Ph.D., University of Oklahoma.

CHRISTY F. COX (1994) Pharmacy Practice
Assistant Professor, Director of Experiential Programs; B.S., University of
Oklahoma; M.S. University of Central Oklahoma; Pharm.D., Southwestern
Oklahoma State University.

RANDY G. CURRY (2012) Pharmacy Practice
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University.

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SCHOOLS OF MEDICAL LABORATORY SCIENCE

(12-Month Clinical Programs)

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
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Leah Babcock; MSHR, MT (ASCP),
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Dr. L. W. Cartmell, Medical Director
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Sigrid Wayne, M.D., Medical Director
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HISTORICAL BACKGROUND

Southwestern Oklahoma State University at Weatherford is located in Weatherford, 70 miles west of Oklahoma City. The University is authorized to offer curricula in arts and sciences, business, teacher education, and health sciences. A branch campus at Sayre is authorized to provide Associate of Science and Associate of Applied Science degrees in both general and specialized areas of study, as well as career and technical education.

The University was established by an act of the Oklahoma Territorial Legislature in 1901 as the Southwestern Normal School, authorized to offer two years of training for public school teachers. The first classes met in 1903. Initially, four years of preparatory work for precollege students were offered.

In 1920, the preparatory (academy) courses were eliminated and two additional years of college work in teacher training were added. The State Legislature approved a change of name to Southwestern State Teachers College. The first baccalaureate degrees were awarded in May 1921. Other changes in name and purposes occurred in 1939 when the institution was designated as Southwestern State College of Diversified Occupations, and in 1941, when it became Southwestern Institute of Technology. During this two-year period, the college added a school of pharmacy, degree work in the arts and sciences, and trade schools.

In 1949, the Oklahoma State Legislature changed the name of the institution to Southwestern State College, and in 1974, to Southwestern Oklahoma State University, without altering its purposes and objectives. On July 1, 1987, Sayre Junior College was merged with Southwestern Oklahoma State University as a branch campus designated Southwestern Oklahoma State University at Sayre. Southwestern Oklahoma State University at Sayre was founded as Sayre Junior College in 1938 under legislative authorization which permitted public high schools to add a 13th and 14th year of study to their curricula. Nineteen public schools took this step. In 1940, the college name was changed to Oklahoma Western Junior College; however, the original name was soon adopted again, and in May 1940, the first degrees were conferred. In 1956, Sayre Junior College moved from facilities occupied jointly with Sayre High School to its present location on old Highway 66. The merger with Southwestern Oklahoma State University marked the end of the Oklahoma community college system, since Sayre Junior College was the only such institution remaining of the original nineteen.

The Sayre campus is located 60 miles west of the Weatherford campus on Interstate 40. It serves western Oklahoma and the Texas panhandle within a 60-mile radius of Sayre. It offers open admission to high school graduates as well as to students who do not hold a high school diploma.

Southwestern Oklahoma State University offers seven advanced degrees. The Master of Education degree was inaugurated in 1969. (The Master of Teaching Degree was offered during the period 1953-1969.) Graduate programs leading to the following degrees have been added since 1969: Master of Business Administration, 1977; Master of Music, 1981; a professional doctorate, the Doctor of Pharmacy (Pharm.D.), 1998; Master of Science in School Psychology, 2005; Master of Science in Management, 2008; and a Master of Science in Community Counseling, 2009.

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 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 Health Care Administration
- Bachelor of Science in Health Information Management
- Bachelor of Science in Health Science
- Bachelor of Science in Nursing
- Master of Business Administration
- Master of Education
- Master of Music
- Master of Science in Community Counseling
- Master of Science in Health Care Informatics & Information Mgmt.
- Master of Science in Management
- Master of Science in School Psychology
- 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, ¾ of a 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 Economic and Business Development 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, the Department of

Accounting, Computer Science and Entrepreneurship, the Department of Finance, Management and Marketing, and the Office of Web Services Management 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, Executive Vice President, Provost and Vice President for Academic Affairs, Associate Provost, 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 (cafeteria), the Bulldog Beanery (coffee shop), Yogurt Corner (yogurt shop) and the University Grill, which includes The Corner Bakery (breakfast items), Arrezzo's Italian Café (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. 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 I.D. 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 center opened in 2014 and was made possible by a partnership between the university, SWOSU students and Weatherford residents. The center is used for a variety of purposes including meetings, trade shows, concerts, athletic events and more. The center houses the center director, athletic department administration and the basketball and volleyball programs.

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 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 HOUSE: Located at the corner of College and Broadway across from Neff Hall, the white house serves as a meeting site for the Student Government Association. All students are welcome to visit the house; it is staffed by SGA members from 8-5, Monday through Friday.

SWOSU LIBRARIES: Located near the center of the campus, the Library houses the books, periodicals, videos, government documents, electronic databases, and the SWOSU Digital Repository (University history). Individual study carrels are provided for students, seminar rooms for group use, Media Creation Center/Video 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*

1- 2- 3- 4000	Level Courses	\$213.00
	Tuition Lock	\$236.00
	Reach Higher (ORGL Courses)	\$231.00
5000	Level Courses	\$258.00
	Pharm.D. Courses	\$588.00

NON-RESIDENT STUDENT TUITION*

1- 2- 3- 4000	Level Courses	\$438.00
	Reach Higher (ORGL Courses)	\$517.00
5000	Level Courses	\$522.00
	Pharm.D. Courses	\$1014.00

NURSING TUITION

RN/BSN**	\$194.00
Traditional Nursing***	\$213.00
Masters of Nursing	\$300.00

NON-RESIDENT NURSING TUITION

RN/BSN**	\$419.00
Traditional Nursing***	\$438.00
Masters of Nursing	\$564.00

***Tuition rates include the following mandatory fees per credit hour (\$36.50 Total):**

- Event Center Fee – \$6.50
- Facility Fee - \$7.50
- Student Activity Fee - \$11.50
- 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 Nursing Academic Fee – \$60.00
- RN/BSN Distance Learning Fee - \$30.00

***** Traditional Nursing students will pay the following fee in addition to tuition and mandatory fees per credit hour:**

- Nursing Academic Fee – \$60.00

CHARGES FOR SPECIAL SERVICES

ACT Residual Exam	\$50.00
Application Fee	\$15.00
Arts and Sciences Academic Fee	\$10.00
(per hour on classes under Arts & Sciences)	
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	\$12.00
(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
CLEP Exams	\$95.00
Distance Learning Fee	\$40.00
(per hour plus regular tuition charges)	
Emergency Vehicle Operation Fee (per course)	\$400.00
GED Exam (subject to change)	\$136.00
New Student Orientation Fee	\$5.00
Nursing-Test of Essential Academic Skills (TEAS) Exam	\$60.00

Parking Fee	\$25.00
(Fall and Spring for students with a parking decal)	
Pharmacy Organization Activity Fee	\$1.00
(per hour on Professional Pharmacy Classes)	
Pharmacy Software Fee (Fall and Spring Semester)	\$35.00
Professional and Graduate Studies Academic Fee	\$10.75
(per hour on classes under Professional & Graduate Studies)	
Proctoring Fee	\$10.00
Radiologic Tech Clinical Fee (per credit hour)	\$15.00
Remedial Course Fee (per hour):	\$40.00
Science Laboratory Course	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)

Semi-private lessons in music (per hour)

(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 courses begin. 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. **85 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 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 Higher One.

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

ACADEMIC SUPPORT AND COUNSELING SERVICES

Academic support and personal counseling is offered at Counseling Services. Confidential counseling is provided by licensed professional counselors and is available to Southwestern students at no charge. Counseling sessions are typically short-term and referrals are available. Referrals, such as sexual assault, intimate partner violence/abuse, and stalking on SWOSU's campus are provided for SWOSU students and employees to local and campus resources 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.

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.

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

Human Resources will assist students once a job has been secured. Human Resources will verify the employment eligibility of the student by using the E-Verify system and completion of other employment forms. Please note that all students will need to present a Social Security Card for payroll purposes. Student positions range from a handful of hours to a maximum of 20 hours per week on campus. The average hours worked per week is between 12 and 15. Student employees may work above the normal 20 hours per week limit during the summer months.

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.)

The U.S. Congress and the Oklahoma State Legislature have passed laws requiring universities to provide employees with detailed information about a number of issues which affect them. The intent of the law is to ensure complete information about the extent of the issue, the risks involved, the legal standards adopted, and the offices and/or agencies which may offer assistance. In order to comply with some of the requirements of these laws, the Human Resources staff have posted information on the bulletin board outside the Human Resources offices

(Administration building) and in the Staff Handbook posted on the website.

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, and also *The Mayfly Newsletter*.

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.

Strategic plans are published by the President's 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 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.

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 of the University. It is centrally located on the Weatherford campus. It is open seven days a week (84.5 hours a week). The Oscar H. McMahan 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 312,000 bound volumes, over 74,000 electronic books, and subscribes to 39,117 print and electronic periodicals. The collection is expanded by 1,200,000 microforms, over 3,000 media materials, and access to 120 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.

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 January 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 April 30 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.

SCHOLARSHIPS, AWARDS, AND HONORS

Scholarship eligibility is determined by Student Financial Services, the University Foundation, academic departments, organizations, or schools. Contact respective departments for details.

Scholarships awarded through the University Foundation are identified with an **(F)** following the description. Information and applications for Foundation scholarships may be obtained from the Office of Institutional Advancement (Burton House).

Following are scholarships, awards, and other types of honors which are available at SWOSU.

GENERAL

A. E. FRIEDRICH III MEMORIAL SCHOLARSHIP: This scholarship fund was established by Goldie Friedrich. It is awarded to a Clinton High School senior. **(F)**

ALPHA PHI SIGMA: The Iota chapter of the national scholarship fraternity selects its outstanding member each year as the recipient of the Alpha Phi Sigma Key.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN: A cash award given each December to assist a female graduating senior with spring semester tuition. The recipient is selected on the basis of scholarship and financial need. Priority is given to non-traditional students who have re-entered college to complete a degree and develop skills for a career change.

ANDY AND DORA FARMER MEMORIAL TEACHING SCHOLARSHIP: This fund was established by the children of the Farmers. The scholarship is available to all full time students on the Sayre Campus, being a U.S. citizen with a home residence in Oklahoma. It is based on financial need. **(F) (Sayre Campus)**

ANN GILLINGHAM MEMORIAL TEACHING SCHOLARSHIP: A fund established by David L. (Red) Gillingham, husband of educator. To be awarded by the Classroom Teachers Association of the Hydro-Eakly Public School to an elementary teacher, through grade eight, that has less than 10 years experience. Recipient to be randomly selected. It must be used within one year of the date of the award. **(F)**

BRENDA LUMPKIN MEMORIAL SCHOLARSHIP: This fund was established by family and friends in memory of Brenda. This will be awarded to a history major. **(F)**

BURCH (F.C., EMAGENE & BARBARA) MEMORIAL SCHOLARSHIP: A fund established by Fred Burch, to be awarded to a full time student with a home residence in Oklahoma. The student must have a 3.0 GPA or better. It will be funded on the basis of academic merit and need. **(F)**

BUSEY BROTHERS' SCHOLARSHIP: Established by Brian and Philip Busey to benefit six deserving students. **(F)**

CARL HICKERSON SCHOLARSHIP: Established by Carl Hickerson, a lifelong educator, to assist Southwestern Oklahoma State University students from western Oklahoma. **(F)**

CECIL AND GLADYS LEWIS SCHOLARSHIP: This fund was established by the Cecil and Gladys Lewis estate. It will be awarded to a Sayre student from Beckham or Roger Mills Counties. **(F) (Sayre Campus)**

CECIL AND IMOGENE ROUNDS SCHOLARSHIP: A scholarship program established by Imogene Rounds in honor and memory of Cecil Rounds. The fund provides scholarship assistance to residents of Baptist Boys Ranch Town or other students in Oklahoma Baptist Child Care or residents of child care in Oklahoma who plan to attend SWOSU. **(F)**

CHESAPEAKE ENERGY CORPORATION SCHOLARSHIP: A fund established by Chesapeake for students majoring in Business, Math and Chemistry. **(F)**

CIVIC ORGANIZATIONS: These scholarships are made available by the various civic organizations and are applied for through the local organizations, such as Rotary, Lions, Kiwanis, Chamber of Commerce, etc.

CONTINUING STUDENT TUITION WAIVER SCHOLARSHIP: This scholarship is available to Oklahoma residents who have completed at least 24 credit hours at Southwestern Oklahoma State University during the fall and/or spring terms. To receive this award, a student must complete the FAFSA online or provide a copy to Student Financial Services and enroll in at least 12 hours before July 15th. Awards are competitively assigned based upon a point total comprised 50% of the student's retention grade point average, 25% by the most recent fall semester grade point average and 25% by the most recent spring semester grade point average.

DAVIS/McELMURRY SCHOLARSHIP: This fund was established by the Wilma McElmurry Estate. The scholarship is a need-based scholarship. **(F)**

DAWNING PLACE SCHOLARSHIP: A scholarship fund established by the Dawning Place, Inc., in order to provide financial assistance to students based on financial need and academic merit. Preference is given to graduates of the Western Oklahoma Vocational-Technical School. **(F)**

DEAN'S HONOR ROLL: Undergraduate students who complete 12 or more hours in the fall and spring semester or six or more hours in the summer semester and earn a 3.50 or higher grade point average qualify for this honor roll.

DISTINGUISHED FRESHMAN SCHOLARSHIP: These scholarships are awarded to first-time, full-time Oklahoma Freshman based on need and scholastic achievement using ACT scores and high school GPA. During the first year recipient will receive up to 16 hours of resident tuition each semester for the first two semesters. **NOTE:** Tuition does not include fees. This scholarship is not renewable. Students are encouraged in their award letters to make application for a Continuing Student Tuition Scholarship for upcoming years. March 1 is the annual deadline for application.

DONALD AND JEAN HAMM SCHOLARSHIP FUND: This scholarship fund was established by the children of Donald and Jean Hamm. Southwestern students who are active in the Church

of Christ Student Center in Weatherford, in good standing, with a 3.0 GPA, are eligible to apply. **(F)**

DONALD THOMAS HOOVER MEMORIAL SCHOLARSHIP: This scholarship was established in 2013 for deserving SWOSU students. **(F)**

DR. ALBERT H. GABRIEL SCHOLARSHIP: This scholarship fund was established to commemorate the significant contributions of Dr. Gabriel to the School of Business and his leadership role in the development and organization of the M.B.A. Program at SWOSU. It is awarded to a student who has been admitted into the M.B.A. Program. **(F)**

DR. JOHN AND SHIRLEY HUSER SCHOLARSHIP: Established by Dr. John and Shirley Huser to provide financial assistance to upper classmen majoring in pre-medicine. **(F)**

DUKE AWARDS: Recipients are outstanding students selected by the Student Government Association and members of the faculty. The awards are presented near the end of the academic year at a special assembly.

ED AND WINNIE OLA BERRONG SCHOLARSHIP: Senator Ed and Winnie Ola Berrong established this scholarship fund to provide assistance to students with a financial need. **(F)**

EDITH PATTERSON BARNETT SCHOLARSHIP: This scholarship was established in memory of Lucille Wheeler by her daughter, Edith Patterson Barnett, for Oklahoma residents. **(F)**

ERTIS SASSEEN SCHOLARSHIP: A fund provided by Lilla Sasseen in memory of her husband. Recipients are chosen on the basis of academic merit and need. **(F)**

EUGENE AND VERA STEWART SCHOLARSHIP: Scholarship funded by Eugene and Vera Stewart in order to provide assistance to incoming freshmen from Southwestern Oklahoma. **(F)**

FIRST NATIONAL BANK SCHOLARSHIP FUND: Established by the First National Bank and Trust Co. of Weatherford for full time students in good standing. Will be awarded based on financial need and academic merit. Must be a U.S. Citizen **(F)**

F.K. BUSTER SCHOLARSHIP: A fund established by Eddie Tom Lakey to be awarded to a high school graduate of Cheyenne, Reydon or Hammon Schools of Roger Mills County that will be enrolling in the health or medical field. It will be funded on basis of academic merit and need. **(F)**

FRESHMAN SCHOLAR SCHOLARSHIP: These scholarships are awarded to first time, full-time Oklahoma Freshman based on need and scholastic achievement using ACT scores and high school GPA. The Freshman Scholar will receive \$1000 (\$500 per semester) for the first two semesters. This scholarship is awarded only for resident tuition. NOTE: Tuition does not include fees. This scholarship is not renewable. Students are encouraged in their award letters to make application for a Continuing Student Tuition Scholarship for upcoming years.

FRESHMAN SCHOLARSHIP: This scholarship is available to qualifying Oklahoma residents who are first-time freshman. A student must apply for this scholarship using the "Freshman Scholarship Application" in the Freshman Application Packet or

by requesting one from the Office of Student Financial Services. The completed application should be submitted to the Office of Student Financial Services and must be postmarked no later than March 1. A variety of awards with different values are selected from this scholarship applicant pool.

GARY RUSSI SCHOLARSHIP: This scholarship fund was established by Gary Russi. It is awarded to a pharmacy student who has been admitted to the College of Pharmacy. Must have a home residence in Oklahoma **(F)**

GENERAL THOMAS P. STAFFORD SCHOLARSHIP: General Thomas P. Stafford, a Weatherford native, established this scholarship in order to financially assist students from Weatherford High School that will enter Southwestern Oklahoma State University. **(F)**

GEORGE ROBERTSON SCHOLARSHIP: The fund was established by George Robertson in order to provide assistance to students who graduated from a Custer County high school. This scholarship is based on work performance and need, not academic merit. **(F)**

GLENN & ANNA ALBRIGHT MEMORIAL SCHOLARSHIP: This annual scholarship is given in memory of the late Glenn Albright, an outstanding Oklahoma citizen and farmer, and his wife, Anna. This is a continuing scholarship for those who maintain a specified grade point average in at least 12 hours. The Albright scholarship provides \$750 per semester for four years. Custer County high school seniors with financial need and an agricultural background are eligible. **(F)**

GRACE CRUMP BOAL SCHOLARSHIP: A fund established by Mrs. Boal to assist students with strong financial need. **(F)**

GREAT PLAINS NATIONAL BANK SCHOLARSHIP: A fund established by Great Plains National Bank to be awarded to high school graduates from Elk City, Mangum, Burns Flat and Cordell. **(F)**

HARRY AND LONETTA PATTERSON SCHOLARSHIP: Established by Shirley Patterson Hollingsworth Harrison in honor of Harry O. and Lonetta H. Patterson to be awarded to a Weatherford High School graduate. The scholarship is based on academic merit and need and is not to be used for athletic purposes. **(F)**

HONOR GRADUATES: Seniors with outstanding academic records are recognized during the graduation convocation. Those with four-year cumulative grade point averages of 3.90 to 4.00 are designated as graduating summa cum laude; 3.75 to 3.89, magna cum laude; and 3.50 to 3.74, cum laude.

INSTITUTIONAL SCHOLARSHIPS: Tuition waiver scholarships are authorized by the Oklahoma State Regents for Higher Education. They are awarded to outstanding high school and college students on the basis of academic achievement and American College Test scores. March 1 is the annual deadline for freshman applications; May 1 for continuing student tuition waivers.

INTERBANK OF SAYRE: Awarded to a full-time student on the Sayre campus. Must be a U. S. Citizen. Financial need and academic merit are considered. **(F) (Sayre Campus)**

JAROD MARTINDALE MEMORIAL SCHOLARSHIP: Susan Mabra established this scholarship in 2013 in memory of her son, Jarod Martindale. This scholarship is awarded to a graduate from a Roger Mills County High School. **(F)**

JERRY W. GRIZZLE AND SHAWN L. GRIZZLE ENDOWMENT FUND: Established by Jerry W. and Shawn L. Grizzle, the income to be used for a scholarship awarded to the School of Business and the Department of Biological Sciences. Must be a full-time student, a U. S. citizen, and credit to financial need may weigh in student evaluation. **(F)**

JIM GRAVES SCHOLARSHIP: This fund was established by Mattie Lou Sherwood. It will be awarded to a full-time student who is a U.S. citizen and will be based on need. **(F)**

KELLEY JEWELERS LEADER/SCHOLARS PROGRAM SCHOLARSHIP: This scholarship was established in 2008 for the benefit of deserving sophomore, junior or senior students who are members of one of the following SWOSU student organizations listed in priority order: Student Government, Collegiate Activities Board or other student organizations recognized by SWOSU. **(F)**

L. L. "RED" MALES SCHOLARSHIP: The children of L.L. "Red" Males established this scholarship fund in memory of their father. Students who are residents of Roger Mills County transferring from SWOSU Sayre campus to Weatherford campus may be eligible to apply. This scholarship is a continuing scholarship provided that the recipient maintains a specified grade point average. **(F) (Sayre Campus)**

LLOYD & NORA MURDOCK SCHOLARSHIP: This fund was established by the Lloyd & Nora Murdock family. The scholarship recipient must be a graduating senior from Hammon High School. It will be awarded on the basis of academic merit and need. **(F)**

MARCRUM-LEONARD MEMORIAL SCHOLARSHIP: A fund established by Eva Leonard in memory of her parents, Mr. and Mrs. John Marcrum and her husband, Bill Leonard. Annual scholarships are awarded on the basis of academic merit, financial need, and commitment to American ideals. **(F)**

MARGARET RENZ REPLOGLE SCHOLARSHIP: Awards are given each year on the basis of academic ability and financial need. The fund was established by Margaret Renz Replogle, a member of SWOSU's Distinguished Alumni Hall of Fame. **(F)**

MARK BERRONG FAMILY SCHOLARSHIP: A fund established by Mark Berrong, to be awarded to a full time student. It will be funded on the basis of need or academic merit. **(F)**

MARION R. DAWSON MEMORIAL SCHOLARSHIP: This scholarship was established by the Marion Dawson Estate. It will be awarded to a student who is a U. S. citizen with home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

MARK MOUSE MEMORIAL SCHOLARSHIP: A fund established by Sheila Mouse in memory of her husband. It is to be awarded to an incoming freshman whose parent, grandparent or legal guardian is presently employed or retired as an Oklahoma public school employee. It must be awarded to a U.S. citizen and funded on academic merit and need. **(F)**

MELDA AND DICK MOORE SCHOLARSHIP: Established by Richard W. Moore, Jr., and Steven E. Moore in honor of their parents. The scholarship will be awarded to full time students in good standing that are U.S. citizens and residents of Oklahoma. **(F)**

MERLE K. AND HAZEL E. EXLINE SCHOLARSHIP: A fund established by the estate of Hazel E. Exline. The scholarship is to provide assistance to a student in the Language Arts field. The recipient must be a graduating senior from Seiling, Laverne, Sharon-Mutual, Beaver, or Woodward public schools. **(F)**

MILLIE ALEXANDER THOMAS MEMORIAL SCHOLARSHIP FUND: A fund established by Goldie Alexander Friedrich and Arch Alexander in memory and honor of Millie A. Thomas. The scholarship will be awarded to a student who has completed a minimum of 90 credit hours, with a home residence in Custer, Beckham, Washita, Dewey, Roger Mills, Greer, Kiowa or Caddo County. **(F)**

M.L. AND PEARL HOLLADAY SMALLING SCHOLARSHIP: Dr. John Hays established this scholarship in 2004. First priority is to a descendant of "Ranger" John Holladay. Applicants must self-identify as a descendant of John Holladay and provide at least one letter of verification for John Hays, Elaine Bush Donohoe or Vickie Smith. **(F)**

NADINE KAISER MEMORIAL SCHOLARSHIP: Scholarship awards are given in memory of Nadine Kaiser, a home economist and educator. **(F)**

ORBIE WILBURN MEMORIAL SCHOLARSHIP: A fund established by Gary and Linda Wilburn in memory of their son to be awarded to a Weatherford High School graduate who has been an athlete. It will be funded on the basis of academic merit and need. **(F)**

PANSY FREEMAN SCHOLARSHIP: This scholarship fund was established through the estate of Pansy Freeman in memory of Pansy, Orville, Charley and Lucille Freeman. This scholarship will be funded on basis of merit and need. **(F)**

PAUL AND DOTTIE FLICK SCHOLARSHIP: A fund established by Paul Flick, Jr., a western Oklahoma business leader, to assist talented students with financial need. There are four awards and recipients must be from Clinton High School, Elk City High School, Hammon High School, or the Sayre Campus. **(F)**

PRESIDENT'S HONOR ROLL: Undergraduate students who complete 12 or more hours in the fall or spring semester or six or more hours during the summer semester and earn a 4.00 grade point average qualify for this honor roll.

PRESIDENT'S LEADERSHIP/INTERNSHIP SCHOLARSHIP: This fund was established through the SWOSU Foundation to help with current and future leadership opportunities for our students. **(F)**

R/B/G KOBEL MEMORIAL FUND: Established by Cecil Pettie, executor of the estate of Glenna Kobel, according to her will. The earnings of the fund are to be used to fund a scholarship to a student in the home economics field. However, these are requests only and not mandatory restrictions on the Trustee. **(F)**

SCHOLARSHIP PROGRAM FOR INDIAN STUDENTS: The Bureau of Indian Affairs provides scholarship grants (non-reimbursable) to Indian students who have a minimum of one-fourth Indian blood, are in need of financial assistance, and who demonstrate reasonable academic potential.

SHANNON LITTLE BIRD MEMORIAL SCHOLARSHIP: Established by Dutch and Sandy Little Bird as a memorial to their son, Shannon, to be awarded to deserving students that have participated in high school wrestling or football. **(F)**

SHIRLEY ANN (LEE) PUGH - A PUGH FAMILY PIONEER AWARD: Established by Ed Pugh in honor of his wife, Shirley, for students who have been accepted into the School of Education as Elementary Education majors. Must be a U.S. citizen with a home residence west of I-35 in Oklahoma. This scholarship will be funded on the basis of academic merit and need.

SHRINER/SMITH SCHOLARSHIP FUND: A scholarship fund established by the late Gladys Shriner and Geraldine Shriner-Smith to provide assistance to a graduating senior of Hobart High School. **(F)**

SOUTHWESTERN SCHOLAR SCHOLARSHIP: These scholarships are awarded to first-time, full-time Oklahoma Freshman based on need and scholastic achievement using ACT scores and high school GPA. A Southwestern Scholar will receive up to 12 hours of resident tuition for the first two semesters. **NOTE:** Tuition does not include fees. This scholarship is not renewable. Students are encouraged in their award letters to make application for a Continuing Student Tuition Scholarship for upcoming years.

STUDENT ORGANIZATION SCHOLARSHIPS: A number of student organizations have scholarship funds for deserving members.

SUE GOODALL LOYALL MEMORIAL SCHOLARSHIP: A scholarship program established by Scott Loyall in honor and memory of Sue Goodall Loyall. The fund provides scholarship assistance to a graduating senior from Butler, Hammon, Cheyenne, Thomas-Fay-Custer, Leedey or Reydton. **(F)**

SWOSU FOUNDATION SCHOLARSHIP: Applications are available in the Development and Alumni Office of the Administration Building. **(F)**

TELLY GATEWOOD MEMORIAL SCHOLARSHIP: This scholarship fund was established in memory of Telly by his parents, Linda and Jimmy Gatewood. It will be awarded to a student from Jones High School; applications will be handled through that school. **(F)**

TRANSFER SCHOLARSHIPS: Any new transfer resident who is fully admissible, in good standing, to SWOSU with at least 16 hours (if applying for spring), and 24 hours (if applying for fall) from a college or university and a 3.25 minimum grade point average will be eligible to apply for this scholarship. Awards will be equal to 12 semester hours of resident tuition for each of the fall and spring semesters. Awards are for one academic year only.

TRAVIS L. HARRIS SCHOLARSHIP: This scholarship program was established in recognition of Travis Harris' work with the blind. He was the first blind graduate of SWOSU (1947). The scholarship program provides assistance for blind students attending SWOSU. **(F)**

TRUMAN SMITH SCHOLARSHIP: Established by Truman Smith for a full time student that is a U.S. citizen. Financial need will be considered. **(F)**

UNIVERSITY SCHOLAR SCHOLARSHIP: These scholarships are awarded to first-time, full-time Oklahoma Freshman based on need and scholastic achievement using ACT scores and high school GPA. During the first year recipient will receive up to 16 hours of resident tuition and fees per semester and is renewable with a 3.25 cumulative GPA and 24 hours up to four years or until the first bachelor's degree is completed, whichever comes first.

W. D. & BESS HIBLER EDUCATION SCHOLARSHIP: A \$200 cash award established by Dr. Joe Anna Hibler in the memory of her parents, who were educators. The recipient must be a full-time student, a U. S. citizen from Oklahoma, and be accepted in the Department of Education. It will be funded on the basis of academic merit and need. The scholarship shall be funded to the student during their professional semester. **(F)**

WARREN A. WILSON MEMORIAL SCHOLARSHIP: The fund was established in memory of Dr. Warren Wilson to recognize his outstanding contributions as an educator and former Director of Financial Aid at SWOSU. The fund provides scholarship assistance for students with a rural Oklahoma background who could not attend SWOSU without financial assistance. **(F)**

WAYNE AND JOI DELL SALISBURY SCHOLARSHIP: A scholarship fund established by Wayne Salisbury and Joi Dell Salisbury to provide scholarship assistance for students in pharmacy, education, and arts and sciences. **(F)**

WEATHERFORD COMMUNITY SCHOLARSHIP: This scholarship fund was established by the Weatherford community sales tax. Priority is given to transfer students who hold an Associate in Science degree, an Associate in Applied Science degree, or an Associate in Art degree with a 3.25 cumulative grade point average. June 15 is the annual deadline for application. **(F)**

WESTERN OKLAHOMA BANKERS ASSOCIATION: This scholarship fund was established by a group of Western Oklahoma Bankers in order to provide scholarships for accounting or finance majors from the trade area of the participating banks. **(F)**

WHEELER BROTHERS AND SISTERS SCHOLARSHIP: A trust fund donated by H. N. Wheeler in memory of his brothers and sisters, the children of B. B. and Miriam Wheeler, who attended SWOSU. Proceeds from the fund are used for tuition scholarships. **(F)**

WILLIAM AND JUNE STOVALL SCHOLARSHIP: William and June Stovall have founded this scholarship to assist students from SWOSU at Weatherford or Sayre. Students who are eligible to apply are residents of Beckham County and western Oklahoma. **(F) (Sayre or Weatherford Campus)**

WILLIAM (BILL) BENNETT AND JIM D. JONES MEMORIAL FUND: This scholarship fund was established by Linda Bennett and Ron Polston. It will be awarded to a student who is involved in campus organizations and a U.S. citizen with home residence in western Oklahoma (west of Interstate 35), with preference given to students from schools classified as 2A or

smaller. It will be funded on the basis of academic merit and need. **(F)**

WILLIAMS FAMILY SCHOLARSHIP: This scholarship was established in 2012 for deserving students in the School of Nursing and the Department of Parks & Recreation Management. Nursing students must be classified as a junior or senior. Student must perform 10 hours of volunteer work per semester in the field of the scholarship. **(F)**

WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES: One hundred fifty outstanding SWOSU seniors are chosen by faculty nomination each year to be listed in the national publication, "Who's Who Among Students in American Universities and Colleges." They are chosen on the basis of character, leadership, scholarship, and contributions to the University.

COLLEGE OF ARTS AND SCIENCES

ART, COMMUNICATION AND THEATRE

ALPHA PSI OMEGA SCHOLARSHIPS: The SWOSU Chapter of Alpha Psi Omega, the national drama fraternity, offers one to three scholarships yearly to Theatre students.

ART DEPARTMENT SCHOLARSHIPS: These scholarships are awarded annually to outstanding students majoring in Art. **(F)**

CEDRIC CRINK MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding Speech-Theatre major. **(F)**

CINDY CARLEY MEMORIAL SCHOLARSHIP: This scholarship is presented to an outstanding Communication Arts major in any emphasis area. This scholarship was established to honor former faculty member, Cindy Carley.

DAMARISE KITCH MEMORIAL SCHOLARSHIP: The fund was established by a former member of the Language Arts faculty to assist Speech-Theatre majors.

ELBY WARD THREADGILL & EDWARD THREADGILL SCHOLARSHIP: Established by the Elby Ward Threadgill Estate. The scholarship will be awarded to a full time student with home residence in Oklahoma who is a junior or senior Communication Arts major with at least a 2.5 GPA. It will be funded on basis of academic merit and need. **(F)**

HARRY C. MABRY FORENSIC AWARD: A faculty committee selects the student outstanding in public speaking during the year to receive cash given by a former Southwestern Oklahoma State University student and debater.

MARY BETH AND LACY NOBLE, JR. ART SCHOLARSHIP: An award given to outstanding Art students attending SWOSU. This is presented annually to current and new students that submit a portfolio of their work to the faculty for assessment. The amount of the award offered each year, as well as the number of students granted scholarships, is variable. **(F)**

MOLLY STRICKLER MEMORIAL SCHOLARSHIP: This scholarship is presented to an outstanding Communication Arts major in the Theatre emphasis of the Communication Arts major. The scholarship was established by the friends and family of Molly Wyatt Strickler. **(F)**

BIOLOGICAL SCIENCES

ARTHUR L. SHUCK AWARD: An award is given each year to the outstanding freshman Biological Sciences student as determined by competitive examination. This award honors the first faculty member to retire from the department.

AUDUBON H. NEFF AWARD: This memorial award honoring a former chair of the department is given each year to a student who has demonstrated high academic achievement in pre-professional studies.

BETA BETA BETA AWARD: The Delta Sigma chapter of the national biology honor society and the biological sciences faculty select the outstanding senior Biological Sciences major each year to receive this award.

CHARLES G. TORBECK STUDENT SERVICE AWARD: This award is given each year to a Biological Sciences major whose service to the Biological Sciences Department, campus, and community merits recognition. The award honors a former Southwestern graduate, Dr. Charles Torbeck, D.D.S.

F. K. "SKEET" CARNEY AND DR. HENRY KIRKLAND JR. SCHOLARSHIP: This scholarship was established by Dr. Wade McCoy to help deserving biological science or pre-healthcare students at SWOSU. **(F)**

HOBART F. LANDRETH AWARD: This memorial award is presented to a student who has demonstrated an aptitude for original research and independent thinking as evidenced by active participation in meritorious research. The award honors a former Biological Sciences faculty member.

INTERNATIONAL/OUT OF STATE BIOLOGIST SCHOLARSHIP: This fund was established by Anna and Andrew Nelson. The scholarship recipient must be a full-time student in good standing, a junior or senior, with a biology major. The student must be an international or out-of-state student, going on to graduate school and interested in the biomedical field. Financial need will be considered. **(F)**

JAMES BROWN MEMORIAL SCHOLARSHIP: A scholarship program established as a memorial to James Brown, a 1978 pre-med graduate. The fund is designed to provide financial assistance to pre-med students from Harper and Beaver counties. **(F)**

MADGE LENZ JORDAN SCHOLARSHIP: This scholarship was established in 2015 by Marilyn Ann Doty for the benefit of students majoring in one of the following departments: Education, Biological Sciences, Chemistry and Physics or Social Sciences **(F)**

MARY M. MILLER AWARD: An annual award from the estate of the late Mary Miller is presented to a student who has demonstrated outstanding academic achievement in wildlife studies. **(F)**

OTIS KING MEMORIAL SCHOLARSHIP: A scholarship established as a memorial to Otis King, a field biologist at SWOSU in the late 1950's. The scholarship will be funded on the basis of academic merit and need. Recipient must be a full-time, regularly enrolled student in good standing working toward a Biological Sciences degree, and a U.S. citizen. **(F)**

OTTIS AND BUENA BALLARD: This scholarship is for a full-time student and Biological Sciences major that has completed 60 semester hours. Financial need and academic merit are considered. **(F)**

RYAN PETERS MEMORIAL SCHOLARSHIP: This scholarship was established in memory of Ryan Peters, a 1994 Biology graduate. The scholarship will be awarded to a pre-med student pursuing a Science degree. The student must be a U. S. citizen with a home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

SONOBE FAMILY SCHOLARSHIP: Blake and Janie Sonobe established this scholarship in 2014 for the benefit of students

majoring in one of the following departments: Biological Sciences, Chemistry or Pre-Pharmacy. (F)

CHEMISTRY AND PHYSICS

Chemistry

ALLEN G. LANE ORGANIC CHEMISTRY AWARD: A fund established to award scholarships to deserving Chemistry majors. (F)

BOBBY D. GUNTER FRESHMAN CHEMISTRY ACHIEVEMENT AWARD: Presented to an outstanding freshman in General Chemistry II who achieves the highest score on the standardized exam taken for this award. The honor includes a cash award and Handbook of Chemistry and Physics.

DAN DILL INORGANIC CHEMISTRY AWARD: Presented to the outstanding student in Inorganic Chemistry as selected by the course instructor. The honor includes a cash award and framed certificate.

DEPARTMENT CHAIRS AWARD: Presented annually to the senior Chemistry major who has demonstrated outstanding service to the department and to the Chemistry Club. The honor includes a cash award.

DONALD V. HERTZLER SCHOLARSHIP: Presented annually to an outstanding high school student agreeing to matriculate to SWOSU as a Chemistry major. The scholarship may continue for up to six semesters.

DR. DONALD I. HAMM MEMORIAL SCHOLARSHIP: Presented annually to a Chemistry major maintaining a minimum GPA of 3.00 and demonstrating outstanding academic achievement. Each recipient is chosen by the SWOSU Foundation and the Chemistry Division. (F)

EARL REYNOLDS ELEMENTARY EDUCATION SCIENCE SCHOLARSHIP: This fund was established by Edward Neparko. The scholarship recipient must be an elementary education major with a 3.0 GPA or higher and taking or have taken math and science courses. The student must be an American citizen, a resident of Oklahoma, and classified as a sophomore or higher. (F)

ED NEPARKO SENIOR CHEMIST AWARD: Presented to the outstanding graduating senior in Chemistry, this honor includes a cash award, associate membership in the American Institute of Chemists, and a subscription to *The Chemist*.

G. E. CASTLEBERRY SCHOLARSHIP: Presented to one or more outstanding freshman Chemistry majors who will be enrolling in Organic Chemistry I (majors) in the fall. The scholarship may continue for up to six semesters. Selections are based on standardized exam results. (F)

HAROLD WHITE SCHOLARSHIP: This fund was established by the family and friends of Harold White. It will be awarded to a full-time student who is a Chemistry major and meets the requirements established by the Chemistry and Physics Department. The recipient will be the winner of the "Hal White Award", who is the outstanding student in Organic Chemistry. The scholarship continues for two semesters and includes the POLYED Award for Achievement in Organic Chemistry. (F)

JOHN AND JACQUELINE LUDRICK CAREER TEACHER SCHOLARSHIP: A fund established by John A. and Jacqueline H. Ludrick. A \$500 scholarship is to be awarded to a junior or senior student with at least a 3.0 GPA and home residence in Oklahoma. They must be working toward a teacher education degree in science, preferred having aspirations to complete an advanced teaching degree. (F)

J. T. CRONIN SCHOLARSHIP: Two or more annual scholarships are awarded over two semesters to sophomore, junior, and senior Chemistry majors selected by a faculty committee from qualified students making application. (F)

MADGE LENZ JORDAN SCHOLARSHIP: This scholarship was established in 2015 by Marilyn Ann Doty for the benefit of students majoring in one of the following departments: Education, Biological Sciences, Chemistry and Physics or Social Sciences. (F)

NEPARKO FAMILY CHEMISTRY SCHOLARSHIP: This fund was established by Edward Neparko. The scholarship recipient must be a Chemistry major beginning their sophomore year. They must be an American citizen and a resident of Oklahoma. The student must have a 3.25 GPA. The scholarship is renewable up to six semesters if the student maintains the required 3.25 GPA. (F)

OSBORNE SCHOLARSHIP: Scholarships provided by David C. and Janyce Rader Osborne to students who are U.S. citizens and non-Oklahoma residents. Students selected must be sophomore, junior, or senior Chemistry majors and members in good standing of the Chemistry Club. (F)

OUTSTANDING ORGANIC CHEMISTRY STUDENT: Presented to the Organic Chemistry student making the highest score on a standardized exam. The honor includes a cash award and framed certificate.

ROLAN V. DECKER OUTSTANDING STUDENT IN BIOCHEMISTRY AWARD: This award was established in memory of the service of Dr. Rolan Decker to the Chemistry Department. It is presented annually to the outstanding student completing both Biochemistry and Advanced Metabolism. The honor includes a cash award and framed certificate. (F)

SONOBE FAMILY SCHOLARSHIP: Blake and Janie Sonobe established this scholarship in 2014 for the benefit of students majoring in one of the following departments: Biological Sciences, Chemistry or Pre-Pharmacy. (F)

STUART BURCHETT ANALYTICAL CHEMISTRY AWARD: Presented to the outstanding student in Analytical Chemistry who has completed Quantitative Analysis and Instrumental Analysis. The honor includes a cash award, subscription to *Analytical Chemistry*, and membership in the Analytical Chemistry Division of the American Chemical Society. (F)

SWOSU CHEMISTRY ALUMNI SCHOLARSHIP: Scholarship awarded each year to an outstanding Chemistry major, as selected by the department and contributing alumni. The scholarship may continue for two semesters. (F)

UNDERGRADUATE CHEMISTRY RESEARCH AWARD: Presented to a Chemistry major who has completed all requirements for research credit and selected by the faculty as the

outstanding researcher of the year. The honor consists of a cash award.

Physics

BENNY J. HILL: Scholarship awarded each year to an outstanding Physics student. This award honors Dr. Benny J. Hill who was the chair of the Physics Department for 25 years. The fund was established by Mrs. Benny Hill and Physics alumni. **(F)**

J. R. PRATT AWARD: An award is given each year to the outstanding Physics student as determined by scholastic averages in physics and related subjects, as well as leadership development. This award is sponsored by the Physics and Engineering Club.

J. R. PRATT PHYSICS SCHOLARSHIP: A fund established by alumni, faculty, and faculty emeriti to provide financial assistance for students pursuing a major in Physics. The fund was established in memory of J. R. Pratt, a former chair of the physics department. **(F)**

MADGE LENZ JORDAN SCHOLARSHIP: This scholarship was established in 2015 by Marilyn Ann Doty for the benefit of students majoring in one of the following departments: Education, Biological Sciences, Chemistry and Physics or Social Sciences. **(F)**

McCLELLAND PHYSICS SCHOLARSHIP: This fund is based on scholastic achievement and provides scholarship assistance for students pursuing a program in physics. The fund was established by George R. Pearson in memory of his grandparents, Mr. and Mrs. Arthur J. McClelland. **(F)**

OUTSTANDING GENERAL PHYSICS STUDENT: This annual award is presented to a Physics student who has completed General Physics I and II. The award is based on scholastic averages, involvement in physics activities, and leadership potential. This award is sponsored by the Physics and Engineering Club.

RAY C. JONES MEMORIAL PHYSICS SCHOLARSHIP: This scholarship is awarded each year to an outstanding Physics student. This award honors Dr. Ray C. Jones who taught at SWOSU for 32 years and was a perennial favorite among students. Funds are provided by generous donations from Dr. Jones' family, students, and colleagues who wish to continue supporting the study of physics that he loved. **(F)**

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY PHYSICS ALUMNI SCHOLARSHIPS: Scholarships to outstanding Physics majors are based on need and scholastic achievement. Recipients are selected by the Physics faculty.

LANGUAGE AND LITERATURE

CLARENCE AND PAT STURM SCHOLARSHIP: This scholarship was established in 2013 by Clarence and Pat Sturm for deserving students majoring in English, English Education or Spanish. **(F)**

GERRY HENSON MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding English major. **(F)**

GLADYS CARMAN BELLAMY SCHOLARSHIP: A scholarship presented annually to an outstanding English major,

this scholarship honors a former chair of the Language and Literature Department.

GRACE JENCKE-GLADYS BELLAMY ENGLISH AWARD: An award presented annually to the senior English major with the highest grade point average in English classes.

JAMES L. MALES SCHOLARSHIP: This scholarship is presented to an outstanding Spanish major.

JO HILL SCHOLARSHIP: This scholarship is presented to an outstanding English major. This award honors Mr. and Mrs. D.B. Deeds, the parents of Jo Hill. **(F)**

LANGUAGE AND LITERATURE DEPARTMENT SCHOLARSHIPS: These scholarships are awarded annually to outstanding students majoring in English. **(F)**

LEROY THOMAS MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding English major. This scholarship honors a former Language and Literature faculty member. **(F)**

LOIS B. FISCHER MEMORIAL ENGLISH SCHOLARSHIP: This scholarship was established in memory of SWOSU Language and Literature faculty Lois B. Fischer. Student must be an English major. **(F)**

MABEL OWEN ENGLISH SCHOLARSHIP: These scholarships are awarded to outstanding English majors selected by a faculty committee. This scholarship honors a former Language and Literature faculty member.

MARY HOOD MEMORIAL SCHOLARSHIPS: These scholarships are presented annually to outstanding English majors. **(F)**

TED RAY PYLE SCHOLARSHIP: This memorial award is presented to a student who has demonstrated outstanding skill in writing. This award honors a former Language and Literature faculty member. **(F)**

WORLD LANGUAGES SCHOLARSHIP: Linda Hertzler-Crumb established this scholarship in 2014 for the benefit of students majoring or minoring in a World Language other than English. **(F)**

MATHEMATICS

MATHEMATICS DEPARTMENT SCHOLARSHIPS: These are semi-annual scholarships awarded to outstanding Mathematics and Mathematics Education majors based primarily on scholastic achievement. Recipients are selected by the Mathematics faculty.

MUSIC

BOB LITTLE DRUM MAJOR SCHOLARSHIP: This scholarship was established in 2007 by Bob Little for the benefit of deserving drum major students. Must have a 3.0 GPA. Scholarship will be funded on the basis of academic merit and financial need. **(F)**

DICK COY MEMORIAL MUSIC SCHOLARSHIP: A memorial to Richard Coy, former band director of SWOSU. The scholarship is awarded to an outstanding Instrumental Music Education major. **(F)**

EDMUND C. WILLIAMS MEMORIAL SCHOLARSHIP: A memorial to former faculty member Dr. Edmund Williams established by Sandra Leonard for a student majoring in Music. **(F)**

INSTRUMENTAL MUSIC ALUMNI MEMORIAL SCHOLARSHIP FUND: Established by various donors in memory of alumni who were outstanding Instrumental Music educators. Recipients are outstanding majors in Instrumental Music Education. **(F)**

JAMES & ALICE JURRENS MEMORIAL SCHOLARSHIP: This scholarship, established by James and Alice Jurrens, is to be awarded to a music major who is a U. S. citizen. It will be funded on the basis of academic merit and need. **(F)**

JOYCE ADAMS CURTIS SCHOLARSHIP: This scholarship was established in 2012 by Torrey Curtis in memory of his wife, Joyce Adams Curtis, for the benefit of music students. Students must have a 3.0 GPA and be a music major in one of the following disciplines in order of preference: vocal music performance/vocal music education, organ performance, piano performance, or music major. **(F)**

KAPPA KAPPA PSI SCHOLARSHIP: Awarded annually to a member of one of the University bands who has made outstanding contributions to the organization and the department.

LADD MEMORIAL MUSIC SCHOLARSHIP: A memorial to Steve and Diana Ladd, graduates of SWOSU's Department of Music. The scholarship is awarded annually to outstanding Instrumental Music Education majors. **(F)**

MALLOY MEMORIAL MUSIC SCHOLARSHIP: A memorial to Pat Malloy, a former band director from this region. The scholarship is awarded annually to an outstanding Instrumental Music Education major. **(F)**

MARION R. DAWSON MEMORIAL MUSIC SCHOLARSHIP: This scholarship was established by the Marion R. Dawson estate. It will be awarded to a Music major who is a U. S. citizen with home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

MARY GRIFFIN MUSIC SCHOLARSHIP: Awarded to a full-time student in good academic standing. **(F)**

MIKE AND ELIZABETH MUNCY JAZZ SCHOLARSHIP: Awarded to a full-time music student who has a strong performing ability in jazz. The recipient must maintain a 2.75 GPA and be enrolled in a jazz ensemble. **(F)**

MERLE TAFF MEMORIAL MUSIC SCHOLARSHIP: A memorial to Merle Taff, former choral director of SWOSU. The scholarship is awarded to an outstanding Vocal Music major. **(F)**

MUSIC PERFORMANCE SCHOLARSHIPS: Music Performance Scholarships are available from the Department of Music. Students must maintain a 2.75 GPA, complete at least 12 hours toward their degree each semester, and participate in a Department of Music performance ensemble.

ORCHESTRA SCHOLARSHIP FUND: Established by friends and supporters of the Music department for scholarships to full-time students that are U.S. citizens with home residence in Oklahoma. Award based on musicianship. **(F)**

PHI MU ALPHA SINFONIA SCHOLARSHIP: Awarded annually to an outstanding music major.

RANDY F. BATEMAN MEMORIAL SCHOLARSHIP: A memorial to former student Randy F. Bateman established by Pat Bateman for a student majoring in Instrumental Music. **(F)**

RUTH NICHOLS MEMORIAL SCHOLARSHIP: Established by the family of Ruth Nichols for a student majoring in Vocal/Keyboard Music Education. **(F)**

SWOSU MUSIC ALUMNI SCHOLARSHIP: A fund established by SWOSU music alumni. The award is to be awarded to a U.S. citizen whom is a music major performing satisfactory work toward a degree. Funded on academic merit and need. **(F)**

TAU BETA SIGMA AWARD: Marching band award given each fall to the outstanding member of the University Marching Band.

SOCIAL SCIENCES

HOLLEY DISTINGUISHED UPPER CLASS MAJOR IN CRIMINAL JUSTICE: This award is given each year to a junior or senior majoring in criminal justice who has distinguished herself/himself in the classroom as well as in other areas of academic life.

JOHN DONLEY HISTORY SCHOLARSHIP: This scholarship is given annually to a distinguished history major.

JOHN T. PATTERSON MEMORIAL SCHOLARSHIP: This scholarship was established by the family of John T. Patterson to provide financial assistance to deserving students working towards a degree in the criminal justice or any major in the Department of Social Sciences. **(F)**

MADGE LENZ JORDAN SCHOLARSHIP: This scholarship was established in 2015 by Marilyn Ann Doty for the benefit of students majoring in one of the following departments: Education, Biological Sciences, Chemistry and Physics or Social Sciences. **(F)**

RANDY BEUTLER HISTORY SCHOLARSHIP: This scholarship is given annually to a distinguished history education major.

SOCIAL SCIENCE AWARD FOR ACADEMIC EXCELLENCE: This award is presented each year to the graduating student who has compiled the highest overall GPA in one of the Social Science majors.

COLLEGE OF PHARMACY

Scholarship recipients are selected by the College of Pharmacy Awards Committee. Various criteria, including scholastic achievement, financial need, leadership, professionalism, service, professional standing and/or career interests, are associated with each scholarship and applied during the selection process.

ABBOTT FAMILY SCHOLARSHIP: Established by Kent and Jalee Abbott, graduates of the College of Pharmacy.

AL HARRIS SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a past president of SWOSU.

ALBERT EATON MEMORIAL SCHOLARSHIP: In memory of Mr. Albert Eaton, one of the founders of the College of Pharmacy.

ALBERT ROSS PHARMACY SCHOLARSHIP: In memory of former pharmacist, Albert Ross, of Clinton, Oklahoma.

AMY SWITZER JONES MEMORIAL SCHOLARSHIP: In memory of Amy Switzer Jones, a graduate of the College of Pharmacy.

A. WAYNE SALISBURY ENDOWED SCHOLARSHIP: A scholarship established by Mr. Salisbury, a graduate of the College of Pharmacy and a Distinguished Alumni of SWOSU. **(F)**

BAUCUM FAMILY PRACTICE GRANTS: Established by Tom Baucum, a graduate of the College of Pharmacy.

BERT BRUNDAGE SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a founder of the College of Pharmacy.

BEST VALUE PHARMACIES INDEPENDENT SCHOLARSHIPS: Provided by the Best Value Pharmacies company.

B. G. KELLER FAMILY MEMORIAL SCHOLARSHIP: In memory of the parents of Dr. B.G. Keller, Jr.

B. G. KELLER, JR. MEMORIAL SCHOLARSHIP: In honor of Dr. B. G. Keller, Jr., Dean Emeritus of the College of Pharmacy.

BILLY G. WELLS SCHOLARSHIP: Honors the former Director of Pharmacy for the Indian Health Service.

BREWSTER FAMILY MEMORIAL SCHOLARSHIP: In memory of Keisha and Kent Brewster, children of Bill Brewster, a distinguished alumnus of the College of Pharmacy.

BURTON FUND PHARMACY PRACTICUM GRANTS-IN-AID: In memory of Dr. Harold Burton, a former President of SWOSU.

CARDINAL HEALTH IDS HOSPITAL PHARMACY PRACTICE SCHOLARSHIP: Provided to a College of Pharmacy student who has financial need and an interest in a career in hospital pharmacy.

CARDINAL HEALTH SCHOLARSHIP: A scholarship from Cardinal Health that recognizes significant interest in independent pharmacy practice.

CHARLES AND ELIZABETH SCHWARTZ MEMORIAL SCHOLARSHIP: In memory of Dr. Charles Schwartz, professor emeritus, and his wife, Elizabeth Schwartz.

CHARLES AND MARY ABERCROMBIE SCHOLARSHIP: This scholarship was established in 2015 by Charles and Mary Abercrombie for the benefit of deserving pharmacy students. Student must have a home residence in western Oklahoma or the Texas panhandle. **(F)**

CLYDE MILLER MEMORIAL SCHOLARSHIP: In memory of Clyde E. Miller, a benefactor of the College of Pharmacy.

CVS PHARMACY SCHOLARSHIPS: Provided by CVS Pharmacy.

CYNTHIA JEAN TOAL MEMORIAL AWARD: In memory of Cindy Toal, a graduate of the College of Pharmacy.

DAN RIVKIN SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a former Dean of the College of Pharmacy.

DARLA RUSSELL SYKES MEMORIAL SCHOLARSHIP: In memory of Darla Russell Sykes, a graduate of the College of Pharmacy.

DONALD R. MASSE MEMORIAL PRACTICE GRANT: In memory of Donald R. Masse, a graduate of the College of Pharmacy.

DR. FADEL MAHDY MEMORIAL SCHOLARSHIP: Established by Dr. Sarah Mahdy, 2008 graduate of the College of Pharmacy, to honor her father.

EDWARD C. CHRISTENSEN MEMORIAL SCHOLARSHIP: In memory of Edward C. Christensen, a former Professor of the College of Pharmacy.

ELGENIA H. FRENCH MEMORIAL SCHOLARSHIP: In memory of ElGenia French, a former Professor of the College of Pharmacy.

ELLEN M. CHURCH/TARRANT COUNTY PHARMACY ASSOCIATION ENDOWED SCHOLARSHIP: A scholarship provided by the Tarrant County Pharmacy Association and its members to honor Ellen Church, a 1974 graduate of the College of Pharmacy.

FLOYD S. ULRICH MEMORIAL SCHOLARSHIP: In memory of Floyd S. Ulrich, Associate Professor Emeritus of the College of Pharmacy.

FRANK G. and ANN E. HODGES MEMORIAL SCHOLARSHIP: In memory of the parents of an alumnus of the College of Pharmacy.

FREDDIE REID BRINKMAN SCHOLARSHIP: Established by 1965 College of Pharmacy graduate, Freddie Brinkman.

GARY RUSSI ENDOWED SCHOLARSHIP: A scholarship established by Dr. Gary Russi, a graduate of the College of Pharmacy and a Distinguished Alumnus of SWOSU. (F)

HAROLD BURTON MEMORIAL SCHOLARSHIP: In memory of a past president of Southwestern Oklahoma State University.

H. DAVID BERGMAN SCHOLARSHIP: In honor of Dr. H. David Bergman, Dean Emeritus of the College of Pharmacy.

HEALTH EXPRESS PHARMACY GROUP SCHOLARSHIP: Provided by the member stores of Health Express Pharmacy Group.

HENRY HEROLD MEMORIAL SCHOLARSHIP: In memory of Dr. Henry Herold, a benefactor of the College of Pharmacy.

H. F. TIMMONS MEMORIAL SCHOLARSHIP: In memory of Dr. H. F. Timmons, Dean Emeritus of the School of Health Sciences.

H. F. TIMMONS SWOSU FOUNDATION SCHOLARSHIPS: In memory of Dr. H. F. Timmons, honoring his years of service to the Southwestern Pharmacy Foundation.

INA G. BLACK MEMORIAL SCHOLARSHIP: In memory of Ina G. Black, Associate Dean Emeritus of the College of Pharmacy.

IRBY FAMILY PRACTICE GRANTS: Established by the Lowell Irby Family of Artesia, New Mexico.

JAMES B. BOREN MEMORIAL SCHOLARSHIP: In memory of a past president of SWOSU.

JASON AND GENA DUPUS ENDOWED SCHOLARSHIP: Established by Jason and Gena Dupus, graduates of the College of Pharmacy, this scholarship fund provides assistance to students in their 1st or 2nd professional year of the program.

JERRY & MARGARET HODGE PRACTICE GRANTS: Established by Jerry & Margaret Hodge of Amarillo, Texas.

JERRY D. McWILLIAMS MEMORIAL SCHOLARSHIP: In memory of Jerry D. McWilliams, a graduate of the College of Pharmacy.

JIM LETT FAMILY FUND PHARMACY PRACTICUM GRANTS-IN-AID: In memory of Mr. Jim Lett, a benefactor of the College of Pharmacy.

JOE ANNA HIBLER SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a past president of SWOSU.

JOHN HAYS SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a past president of SWOSU.

JOHN LASSITER ENDOWED SCHOLARSHIP: Established by John Lassiter, 1963 College of Pharmacy graduate and Oklahoma pharmacy leader.

JOSEPH J. SCHWEMIN MEMORIAL SCHOLARSHIP: In honor of Joe Schwemin, a distinguished alumnus of the College of Pharmacy.

KIM & CRIS BRICKEY PHARMACY SCHOLARSHIP: Established by Kim and Cris Brickey, both 1990 graduates of the College of Pharmacy.

LEONARD CAMPBELL SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship in memory of a former President of SWOSU.

LONNY WILSON ENDOWED SCHOLARSHIP: In honor of Lonny Wilson, 1973 College of Pharmacy graduate and 2012 NCPA President.

MICHAEL A. BROWN MEMORIAL SCHOLARSHIP: In memory of Michael A. Brown, a graduate of the College of Pharmacy.

MICHAEL J. NAULT ENDOWED SCHOLARSHIP: Established by Michael Nault, a 1989 graduate of the College of Pharmacy, to assist students with financial need from rural communities.

NATHANIEL P. MONAGHAN MEMORIAL SCHOLARSHIP: Established by Dr. Christina Monaghan, 2006 graduate of the College of Pharmacy, in memory of her son, Nathaniel P. Monaghan.

NEPARKO FAMILY COLLEGE OF PHARMACY SCHOLARSHIP: Established by the Edward and Mary Neparko family.

NORMAN E. FOSTER MEMORIAL SCHOLARSHIP: In memory of Norman E. Foster, a former Assistant Professor of the College of Pharmacy.

OKLAHOMA PHARMACISTS ASSOCIATION AUXILIARY AWARD: Provided by the Oklahoma Pharmacists Association Auxiliary.

OKLAHOMA SOCIETY OF HEALTH-SYSTEM PHARMACISTS SCHOLARSHIP: A scholarship provided to a professional program student as selected by the Oklahoma Society of Health-System Pharmacists.

PHARMCARE OK SCHOLARSHIP: Provided by Pharmcare OK.

QUEST FOR EXCELLENCE ANNIVERSARY SCHOLARSHIP: In honor of the 50th and 75th Anniversaries of the College of Pharmacy.

REINHAUS FAMILY FOUNDATION SCHOLARSHIPS: A recurring scholarship presented to professional program students based on criteria established by the Reinhaus Foundation.

RHO CHI SCHOLARSHIP: Provided by the Rho Chi Honor Society.

RICHARD M. ALLEN PHARMACY SCHOLARSHIP: In honor of Richard Allen, 1970 graduate of the College of Pharmacy.

RONNIE SCOTT HOLUBY ENDOWED SCHOLARSHIP: Established by 1998 College of Pharmacy graduate, R. Scott Holuby.

SCOTT F. HOLDER MEMORIAL SCHOLARSHIP: In memory of Scott F. Holder, a 2008 graduate of the College of Pharmacy.

SECUNDUM ARTUM COMPOUNDING SCHOLARSHIPS: Supported by David and Kay Sparks of Professional Compounding Centers of America, these scholarships are presented to professional students with an interest in compounding.

SHELDON WEBB ENDOWED SCHOLARSHIP: Established by 2008 College of Pharmacy graduate, Sheldon Webb.

SONOBE FAMILY SCHOLARSHIP: Blake and Janie Sonobe established this scholarship in 2014 for the benefit of students majoring in one of the following departments: Biological Sciences, Chemistry or Pre-Pharmacy. **(F)**

SOUTHWESTERN PHARMACY ALUMNI ASSOCIATION SCHOLARSHIPS: Practice Grants established by the Southwestern Pharmacy Alumni Association.

SUSAN BOOKOUT MEMORIAL SCHOLARSHIP: In memory of Susan Bookout, a graduate of the College of Pharmacy.

VAUGHAN FAMILY SCHOLARSHIP: Endowed by Brad and Tami Vaughan, both graduates of the College of Pharmacy, to assist students with financial need and who demonstrate strong organizational and leadership skills.

VELMA EATON MEMORIAL SCHOLARSHIP: In memory of Mrs. Velma Eaton, wife of one of the founders of the College of Pharmacy.

WALGREENS DIVERSITY SCHOLARSHIPS: Provided by the Walgreens company to increase awareness in diversity and community outreach.

WAL-MART PHARMACY SCHOLARSHIPS: Provided by Wal-Mart.

WALTER L. DICKISON MEMORIAL SCHOLARSHIP: In memory of Dr. Walter L. Dickison, Dean Emeritus of the College of Pharmacy.

WARDEN FAMILY SCHOLARSHIP: Established by Warden family members who are SWOSU Pharmacy graduates: David Warden (1979); David Lee Warden, Jr. (2009); and Jeanna Warden Smith (2013).

W. A. "TATE" TAYLOR MEMORIAL SCHOLARSHIP: In memory of the former Executive Director of the Oklahoma Pharmaceutical Association and friend of the College of Pharmacy.

WAYNE BEARDEN MEMORIAL SCHOLARSHIP: In memory of Wayne Bearden, a graduate of the College of Pharmacy.

W. D. STROTHER MEMORIAL SCHOLARSHIP: In memory of W. D. Strother, former Dean of the College of Pharmacy.

COLLEGE OF PHARMACY HONORS AND AWARDS

Special recognition is given to pharmacy students at the Annual Pharmacy Honors and Awards Convocation and through senior awards presented at the Graduate Recognition Ceremony. Recognition may be in the form of scholarships or other valued awards:

ASP OUTSTANDING SENIOR RECOGNITION AWARD: A certificate presented by the SWPhA advisor to an outstanding member of SWPhA.

COLLEGE OF PHARMACY RECOGNITION AWARDS: Appropriate awards are presented by the faculty to professional students who have made significant contributions to the College of Pharmacy.

EXCELLENCE IN PHARMACY PRACTICE AWARDS: Presented for superior performance during Advanced Pharmacy Practice Experiences.

FACTS AND COMPARISON EXCELLENCE AWARD IN CLINICAL COMMUNICATION: This award of a set of reference books is given to a professional student on the basis of academic achievement and superior verbal and written clinical communication skills.

MERCK, SHARP, AND DOHME COMPANY AWARDS: These awards are presented to students with high scholastic achievement and leadership qualities.

MYLAN PHARMACEUTICALS EXCELLENCE IN PHARMACY AWARD: This award is presented to a professional student on the basis of excellent scholarship and leadership achievement.

NATURAL MEDICINES RECOGNITION AWARD: Granted to an exemplary senior student for perpetuating multidisciplinary, evidence-based research practices, healthcare communications, or information.

OKLAHOMA PHARMACISTS ASSOCIATION MEMBERSHIP AWARD: This award provides a one-year membership in the Oklahoma Pharmaceutical Association.

OKLAHOMA SOCIETY OF HEALTH-SYSTEM PHARMACISTS ANNUAL AWARD: This annual award is presented to a professional student, selected by the faculty, who has a professional interest in hospital pharmacy.

SISTER MARY TERESA BRAMSIEPE HOSPITAL AWARD: An engraved plaque and a savings bond are presented by the sisters of St. Francis and St. Anthony Hospital, Oklahoma City to a student who has a special interest in hospital pharmacy.

SOUTHWESTERN COLLEGE OF PHARMACY OUTSTANDING GRADUATE AWARD: This award, which is presented to the outstanding graduate, is based on superior professional & scholastic achievement.

SOUTHWESTERN PHARMACY ALUMNI ASSOCIATION: The Alumni Association provides financial support for various student functions.

SOUTHWESTERN PHARMACY ALUMNI ASSOCIATION LEADERSHIP AND SERVICE AWARD: This award recognizes a graduating student who has demonstrated outstanding leadership and service to the profession.

TEVA PHARMACEUTICALS OUTSTANDING STUDENT AWARD: This award is made to a professional student selected by the faculty.

COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

Education

BURCHAM SISTERS SCHOLARSHIP: The scholarship fund was established by Grace and Pearl Burcham, Blanche Burcham Cox, and Mable Burcham Hamburger to provide financial assistance for Elementary Education majors. **(F)**

CECIL PERKINS MEMORIAL SCHOLARSHIP: Patti Perkins established this memorial scholarship in 2013 to benefit deserving students majoring in Education and competing in an athletic program at SWOSU. **(F)**

CHARLIE M. AND OLIVIA DOWNS ABERCROMBIE SCHOLARSHIP: Charles and Mary Abercrombie established this scholarship in 2015 to benefit deserving students majoring in Education at SWOSU. Student must have a home residence in one of the following Oklahoma counties: Harmon, Jackson, Greer, Beckham, Tillman, Comanche, Kiowa, Washita, Caddo or Custer, or from the Texas county of Wheeler. **(F)**

DEAN'S SCHOLARSHIP: This is an academic scholarship designed to attract and retain Teacher Education Candidates from underrepresented communities. The amount of the scholarship is \$500.

DR. HARRY HENSON MEMORIAL SCHOLARSHIP: This scholarship was established by Faye Henson in memory of Dr. Harry Henson. Students must be working toward a degree in Natural Science Education with an emphasis in Life Science. **(F)**

GUTHRIE SCOTTISH RITE FOUNDATION FUND: A fund established by the Guthrie Scottish Rite Foundation to be awarded to a junior or senior Education Major with a home residence in Oklahoma. **(F)**

HAROLD AND KAY JACKSON SPECIAL EDUCATION SCHOLARSHIP: A scholarship established by the Jacksons for a student who has been admitted to the School of Education. It is to be awarded to a student from Oklahoma, preference given to a student from Marlow. They must be a full time student in good standing. It can be based on academic merit and need. **(F)**

JANZEN-JARVIS SCHOLARSHIP: This scholarship program provides assistance to students with special interest in service to the handicapped. The fund was established by Rudy and Gladys Janzen, members of the SWOSU Distinguished Alumni Hall of Fame. **(F)**

KAPPA DELTA PI: The recipient of this scholarship must be a member of Kappa Delta Pi for financial assistance in the amount of \$100.

KATHY DICK SIMPSON SCHOLARSHIP: This scholarship program was established by James A. Dick in memory of his sister. The scholarships are awarded to women majoring in Elementary Education with a strong commitment to teaching. **(F)**

KRISTI ROZELL MEMORIAL SCHOLARSHIP: A scholarship program established in 1989 to honor the memory of Kristi Rozell. The fund was established by Kristi's classmates, friends, and family to provide scholarship assistance for Teacher

Education students at SWOSU. The applicant must be a female Special Education major. **(F)**

MADGE LENZ JORDAN SCHOLARSHIP: This scholarship was established in 2015 by Marilyn Ann Doty for the benefit of students majoring in one of the following departments: Education, Biological Sciences, Chemistry & Physics or Social Sciences. **(F)**

MARANA AND MILDRED RICE SCHOLARSHIP: A fund established by Marana and Mildred Rice to provide scholarships for teacher education majors. The Rice sisters had long and distinguished teaching careers after graduating from Southwestern in 1941. **(F)**

OKLAHOMA RETIRED EDUCATOR ASSOCIATION SCHOLARSHIP: A fund established by the Oklahoma Retired Educators Association to be awarded to a senior majoring in Teacher Education. **(F)**

OPAL HARGRAVE MEMORIAL SCHOLARSHIP: The Opal Hargrave Family established this memorial scholarship in 1997 to benefit deserving students majoring in Education at SWOSU. **(F)**

SHERMAN GARRISON MEMORIAL SCHOLARSHIP FUND: Established by Edwardene Garrison for a full-time student and a U.S. citizen with home residence in Oklahoma. Credit to financial need may weigh in the student evaluation. Student must have been accepted into the Department of Education and maintain a minimum GPA of 2.5. The scholarship will be for two years; amount to be determined by the rate of earnings. **(F)**

SHIRLEY ANN (LEE) PUGH; A PUGH FAMILY PIONEER AWARD FUND: A fund established by Ed Pugh in honor of his wife, Shirley Ann (Lee) Pugh to be awarded to an Elementary Education major with a home residence in Oklahoma west of I-35. **(F)**

STANDIFER AND ONA KEAS SCHOLARSHIP: A scholarship established for the Department of Education. It is to be awarded to a U.S. citizen with a home residence in Oklahoma. To be based on merit and need, awarded to a student planning to enter the teaching or education administration field, graduate or undergraduate level. **(F)**

VICKI N. PARK MEMORIAL SCHOLARSHIP: A fund established by family and friends of Vicki. It is to be awarded to a full-time junior or senior Elementary Education major with minimum 3.0 GPA and be a U.S. citizen with a home residence in Oklahoma. **(F)**

WILBUR AND GOLDIE HAYS MEMORIAL SCHOLARSHIP: A fund established by Robert J. Hays in memory of his parents. The scholarship is to be awarded to an Elementary Education major admitted to the School of Education having graduated from Weatherford, Thomas or Hydro High Schools. It will be funded on basis of academic merit and need. **(F)**

Kinesiology Athletics

AWESOME ED DRURY SCHOLARSHIP: This scholarship was established in 2012 by Tim & Lisa Drury in memory of their son, Ed Drury. First consideration will be to a student involved in the

SWOSU rodeo program. Second consideration will be to a student involved in SWOSU leadership. (F)

CLAUDE HOSTETTER MEMORIAL SCHOLARSHIP: A scholarship fund established to recognize the distinguished teaching and coaching career of Claude Hostetter. (F)

DIXON MCGOWAN MEMORIAL SCHOLARSHIP: This scholarship was established in memory of Dixon McGowan, outstanding college and professional timed event rodeo athlete. The program will provide scholarship assistance for members of the rodeo team. (F)

D.J. WITHERSPOON SCHOLARSHIP: Scholarships are awarded from a fund established by D.J. Witherspoon. Mr. Witherspoon was one of the first elected to the Distinguished Alumni Hall of Fame. (F)

DONALD ROUSH MEMORIAL SCHOLARSHIP: A scholarship fund established by George Lowry as a memorial to his friend, Don Roush. Don was a 1936 graduate of SWOSU and was lost during a World War II bombing mission. (F)

EDDIE & JOYCE WOOD RODEO SCHOLARSHIP: This scholarship was established by Eddie and Joyce Wood. The scholarship recipient must be on the SWOSU Rodeo Team and a full-time student in good standing. They must be a U.S. citizen and have at least a 2.75 GPA. (F)

GORDEN "CAKE" GORE MEMORIAL SCHOLARSHIP: This scholarship program was established by friends and former teammates to recognize Cake's outstanding accomplishments as a college and professional athlete. (F)

J. HAMBURGER BASEBALL SCHOLARSHIP: This scholarship fund was established by family and friends in memory of Jerry Hamburger to assist student athletes participating in baseball. (F)

JOE BAILEY METCALF MEMORIAL SCHOLARSHIP: A memorial scholarship fund recognizing the contributions that Coach Metcalf made as a SWOSU football coach during the 1950's. (F)

LESTER BOND MEMORIAL SCHOLARSHIP: Established by Ila Bond for a full time student in good standing that is a member of the SWOSU golf team. (F)

L.J. VAN HORN MEMORIAL SCHOLARSHIP: Established by faculty, friends, and former students as a memorial to Dr. Van Horn, a long-time chairman of the Department of Health, Physical Education, and Recreation. (F)

OTIS DELAPORTE MEMORIAL SCHOLARSHIP: The scholarship program was established by family, friends, and former players to recognize Coach Delaporte's service as an outstanding football and golf coach at SWOSU (1964-1981). (F)

SCOTT MONROE MEMORIAL SCHOLARSHIP: This scholarship program was established in memory of Scott Monroe. The program will provide scholarship assistance for members of the rodeo team. (F)

TERRY GROCE MEMORIAL SCHOLARSHIP: This scholarship program was established in memory of Terry Groce, a former member of the SWOSU Rodeo Team and former

professional bull rider. The program will provide scholarship assistance for members of the rodeo team. (F)

Psychology

HAROLD BUDDE AWARD: An award granted to an undergraduate student for outstanding academic achievement in Psychology for outstanding achievement in one or more of the following areas: academics, research and/or service. Recipients are selected by a faculty committee.

JIM BLAGOWSKY MEMORIAL SCHOLARSHIP AWARD: Scholarship awarded each year to an outstanding Psychology student. This award honors Dr. Jim Blagowsky who was an outstanding teacher in the Psychology Department for 29 years. (F)

JULIA LEVY MEMORIAL SCHOLARSHIP: This fund was established by Les Levy in memory of Julia. It will be awarded to a junior or senior Psychology major. (F)

PSYCHOLOGY SCHOLARSHIP: Scholarship awarded to an outstanding undergraduate Psychology major. (F)

ROBERT S. TYLER AWARD: An annual award given to an undergraduate student deemed most outstanding in Psychology. Recipients are selected by a faculty committee.

EVERETT DOBSON SCHOOL OF BUSINESS AND TECHNOLOGY

Business

BAIRD, KURTZ, & DOBSON: Established for accounting students by Baird, Kurtz, & Dobson through matching funds of employee contributions. (F)

BILLY JOHNSON MEMORIAL SCHOLARSHIP: Annual Accounting scholarships are given in memory of Billy Johnson, a member of the Accounting faculty from 1967 to 1980. (F)

BUSINESS SCHOLARSHIPS: Departmental scholarships are presented annually from funds provided by donors to the B.B.A. programs. Scholarships awarded on a competitive basis as determined by academic performance and leadership potential. (F)

DOBSON COMMUNICATIONS CORPORATION ENDOWMENT FUND: This fund was established by Everett Dobson, President and CEO of Dobson Communication Corporation, for the general and unrestricted use of the B.B.A. programs. (F)

DR. JOE ANNA HIBLER SCHOLARSHIP: This scholarship was established in 2001 to benefit deserving students who have been accepted into the School of Business and are in the last year of their degree program. (F)

DR. W.W. AND ELSIE WARD MEMORIAL SCHOLARSHIP: W.W. and Elsie Ward established this scholarship in 1997 for the benefit of students enrolled in the School of Business. Student must maintain a 2.75 GPA. (F)

EGERTON SCHOLARSHIP: A scholarship established by Dr. Roger Egerton, retired Marketing professor, to benefit a Marketing student. (F)

ETHEL GRACE HEINRICH WILSON MEMORIAL SCHOLARSHIP: This scholarship was established by the Ethel Grace Heinrich Wilson Trust. It will be awarded to a student enrolled in a B.B.A. program and be funded on the basis of academic merit and need. **(F)**

FIRST NATIONAL BANK AND TRUST OF ELK CITY: This scholarship will be awarded to a junior or senior student pursuing a degree in Business. Student must be from one of the following counties in Oklahoma: Beckham, Custer, Roger Mills, Dewey or Washita. **(F)**

FRANK AND SHIRLEY (DOUGLAS) POLK SCHOLARSHIP: Scholarship fund used to provide financial assistance for students in a B.B.A. program. The fund was established by Frank Polk, a member of SWOSU's Distinguished Alumni Hall of Fame and his wife Shirley Douglas Polk. **(F)**

JIM HORSBURGH SCHOLARSHIP: An Accounting scholarship fund established by Giles Avriett in recognition of a former Business faculty member. **(F)**

K. B. CORNELL FOUNDERS SCHOLARSHIP: Established as a memorial to Dr. K. B. Cornell, the founder and first Chair of the former School of Business. This scholarship is awarded to an outstanding business student. **(F)**

MIDFIRST BANK SCHOLARSHIP: A fund established by the Bank for junior and senior business finance majors. It must be a full time student, a U.S. citizen with home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

PAUL J. HART MEMORIAL BUSINESS SCHOLARSHIP: This scholarship was established in 2013 by Michele (Searcey) Hart for the benefit of deserving business students. **(F)**

RETIRED FACULTY SCHOLARSHIP: Established in 2014 by Cindi Albrightson for the benefit of students majoring in Industrial Technology with at least a 2.0 GPA. **(F)**

THE DONNELL ENGINEERING SCHOLARSHIP: Dustin Donnell and Lacey Donnell established in 2014 for the benefit of students majoring in Engineering Technology. **(F)**

WESTERN CHAPTER OKLAHOMA SOCIETY OF CPAs SCHOLARSHIP: Western Chapter Oklahoma Society of CPAs established this scholarship in 2013 for the benefit of deserving students majoring in accounting. **(F)**

WESTERN OKLAHOMA BANKERS ASSOCIATION: This scholarship fund was established by a group of western Oklahoma bankers in order to provide scholarships for Accounting or Finance majors from the trade area of the participating banks. **(F)**

Computer Science and Information Systems

COMPUTER CLUB SCHOLARSHIP FUND: This fund was established by members of the Computer Club. Recipient must be a Computer Science or Information Systems major and have completed 64 hours. **(F)**

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES

Allied Health Sciences General

INDIAN HEALTH SCHOLARSHIP: An annual scholarship which funds up to two years for American Indian students in health care professions. The recipient must maintain a 2.0 GPA. The students must serve the Indian people upon completion of professional health care education and training. The scholarship includes tuition, books and monthly stipend.

WEATHERFORD REGIONAL HOSPITAL SCHOLARSHIP: This scholarship provides financial assistance to academically successful students with financial need in the School of Nursing and Allied Health Sciences. The student must have applied and been formally admitted to the Nursing, Health Information Management, Radiology or Medical Technology Program on the Sayre Campus, or admitted to the PTA or OTA Program at Caddo Kiowa Technology Center in Fort Cobb. The student may also be completing their senior year of the Health Care Administration Program. **(F)**

Health Care Administration

OUTSTANDING HEALTH CARE ADMINISTRATION STUDENT: Each year a student is selected who has demonstrated outstanding potential for professional success in Health Care Administration.

Health Information Management

HEALTH INFORMATION MANAGEMENT PROGRAM AWARD FOR ACADEMIC EXCELLENCE: Each year a student is selected who has achieved the highest GPA within the professional sequence.

OUTSTANDING HEALTH INFORMATION MANAGEMENT STUDENT: Each year a student is selected who has demonstrated outstanding potential for professional success in Health Information Management.

Health Sciences

OUTSTANDING HEALTH SCIENCE STUDENT: Annual awards presented to selected pre-professional students in Health Sciences.

DR. GARY WOLGAMOTT SCHOOL OF ALLIED HEALTH SCIENCES SCHOLARSHIP: This scholarship is awarded to an outstanding allied health student working towards a degree in Medical Laboratory Science or another health profession who has been accepted into their professional program.

Nursing

BEYOND THE CALL OF DUTY (OUTSTANDING COMMUNITY SERVICE): Faculty selected award for demonstration of commitment to and completion of community service done in a spirit which is the essence of caring.

BEVERLY COOK, RN, MEMORIAL SCHOLARSHIP: This is an annual cash award presented to a non-traditional (age 40 or

older at the start of the Nursing Program) senior level student who is pursuing Nursing as a second career.

CHARLENE CARROL DOPSON NURSING SCHOLARSHIP: This scholarship was established by Chester Ray Dopson to honor his late wife, Charlene Carrol Dopson, a graduate of Clinton Hospital School of Nursing. Awarded to a junior level nursing major. Must have a 2.5 GPA on all completed course work. Financial need will be considered. **(F)**

EVELYN HUEBERT SHEPHARD NURSING SCHOLARSHIP: This scholarship fund was established by Evelyn Shephard. It will be awarded to a junior Nursing major with a home residence in Oklahoma. Financial need will be considered. **(F)**

FEE WAIVER: Students desiring fee waiver information should contact the Admissions & Recruitment Office or the office of Student Financial Services.

GOLDEN STETHOSCOPE AWARD: Faculty/Peer selected recognition of the embodiment of the spirit of nursing.

GRANTS/LOANS WITH WORK PAYBACK-PHYSICIAN'S MAN-POWER TRAINING COMMISSION: Through the School of Nursing, application may be made to several area hospitals which will grant up to \$1,500 per semester of matching or non-matching funds for the junior or senior years. These grants/loans are repaid through a work obligation, with full benefits following graduation.

LAMPLIGHTER AWARD: Peer selected recognition for the student who demonstrates continued improvement in physical, mental, spiritual, and social/emotional dimensions of life.

NATIONAL STUDENT NURSES ASSOCIATION SCHOLARSHIPS: All applicants must be NSNA members. Other eligibility requirements may be set by the sponsors. Applications available from the National Student Nurses Association, 10 Columbus Circle, New York, NY 10019.

NURSING SCHOOL ALUMNI OF THE CLINTON HOSPITAL, CLINTON, OKLAHOMA, 1922-1963 FUND: This scholarship was established by Alumni of the Clinton Hospital Nursing School. The scholarship will be awarded to a junior Nursing major. Student must be a U. S. citizen with home residence in Oklahoma. Financial need will be considered. **(F)**

OKLAHOMA STATE MEDICAL ASSOCIATION AUXILIARY (ANN GARRISON): Scholarship for a junior Nursing student nominated by faculty. Requires GPA of 3.0 and advanced standing in Nursing major.

OUTSTANDING JUNIOR NURSING STUDENT: An annual award given to a Nursing student completing his/her junior year in the professional component of the SWOSU Nursing program.

OUTSTANDING SENIOR NURSING STUDENT: An annual award is given to a nursing student completing his/her senior year in the professional component of the SWOSU Nursing Program.

PERSONAL EVOLUTION AWARD: Faculty/Peer selected award for the student exhibiting the most significant positive improvement both personally and professionally.

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY NURSING STUDENT ASSOCIATION (SOSUNSA) SCHOLARSHIP: Awarded annually to a senior or junior Nursing student who is a member of the Nursing Student Association. Criteria for eligibility are academic excellence and financial need.

SPIRIT OF NURSING AWARD: This award is sponsored by the U.S. Army. One student is honored for excellence in nursing each year. The recipient is placed in nomination for a national award.

SWODA: Reimbursement is available for tuition, books, and supplies necessary to complete training for economically disadvantaged or displaced people.

U.S. ARMED FORCES: All three branches of the armed forces offer scholarships for students pre-enlisting in that branch of the service.

WEATHERFORD REGIONAL HOSPITAL SCHOLARSHIP: This scholarship provides financial assistance to academically successful students with financial need in the School of Nursing and Allied Health Sciences. The student must have been formally admitted to the Nursing, Health Information Management, OTA, PTA, CLS, Rad Tech-Sayre, or Med Tech-Sayre programs. If the student is an HCA major, have at least one year left. **(F)**

WINONA MADISON NURSING SCHOLARSHIP: The scholarship program was established by Dr. and Mrs. Robert O. Raulston in recognition of the distinguished 41 year nursing career of Winona Madison. The perpetual fund will provide scholarship assistance for junior Nursing students. **(F)**

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 computer 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:

<u>CPT TEST</u>	<u>SCORE</u>	<u>COURSE</u>
English	Below 70	0123 Fund. of English
Reading	Below 75	0122 Improve. of Reading
Math if 1513 College Algebra is required for your major:		
Elem. Algebra	Below 75	0114 Fund. of Algebra I and 0133 Fund. of Algebra II
or	Below 92	0133 Fund. of Algebra II
Math if 1513 College Algebra is not required for your major:		
Arithmetic	Below 90	0144 Found. of Math Reason.
or		
Elem. Algebra	Below 75	0144 Found. of Math Reason.

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 defined as a student granted a student visa by the United States Citizenship and Immigration Service (USCIS) in order to attend SWOSU.
- 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.
- Evaluation of foreign college and university transcripts cannot be made prior to a student's enrollment. At the student's request, an effort will be made during the first year to give a fair evaluation of credits felt to be equal to those at Southwestern Oklahoma State University. If a student completes an undergraduate, graduate, professional, or terminal degree in a foreign country, the courses will be evaluated on an individual course basis and there is no guarantee that the student will automatically receive credit to fulfill general education requirements at Southwestern Oklahoma State University. Generally, however, the student will be asked to substantiate such credit with CLEP (College Level Exam Program) tests or departmentally prepared Advanced Standing tests. Southwestern Oklahoma State University will accept credits which have been evaluated and posted to the student's transcript by a regionally accredited U.S. institution from which the student transfers as long as these credits are in keeping with institutional policies.
- 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 fall 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 2014, s/he may (1) walk through the ceremony in May 2014 (before graduating) or (2) walk through the ceremony in May 2015 (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 $\frac{3}{4}$ time, and five hours for $\frac{1}{2}$ 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, the General Education Committee, and the Vice President for Student Affairs.
- 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. History3

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 Science3-4

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)

Humanities6

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.

***Indicates prerequisite required**

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 (Sayre)
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

COLLEGE OF ARTS AND SCIENCES

Peter Grant, Dean

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E-Mail: peter.grant@swosu.edu

<http://www.swosu.edu/cas/index.asp>

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)

Spanish

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)

Elective Studies in Business

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

FACULTY

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<http://www.swosu.edu/academics/art-comm-theatre>

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Steve Strickler	CAM 126 F.....	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 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>

BACHELOR OF FINE ARTS GRAPHIC DESIGN (Code No. 102)

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
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
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**

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 3383 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 (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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1113 English Comp 1 (3) 1123 Foundation I (3) 1661 Comp App (1) Gen Educ Courses (8)	1133 Foundations II (3) 1213 English Comp II (3) Gen Educ Courses (9)
Total (16)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1143 Foundation III (3) 2133 Intro Graphic Design (3) Gen Educ Course (3) Required Major Course (3) Studio Elective (3)	Art History Course (3) Gen Educ Courses (7) Required Major Course (3) Studio Elective (3)
Total (15)	Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Gen Educ Course (4) Required Major Course (6) Studio Elective (3)	Art History course (3) Gen Educ Courses (4) Required Major Course (3) Studio Elective (6)
Total (16)	Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Elective (3) Required Major Course (3) Studio Elective (6)	4651 Senior Exhibit (1) Studio Elective (12)
Total (15)	Total (13)

* 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 HOURSMin. 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. History3

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 take w/lab)

SCI 1501 Concepts of Phy Science Lab

PHY 1044 Basic Physics I w/Lab

PHY 1063 General Physics

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 Diversity3-4

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

Two-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 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 & sciences80

Minimum credit hours in upper-division

(3000-4000 courses).....40

Minimum credit hours (3000-4000 courses)

in major completed at SWOSU8

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 major3.00

TWO-DIMENSIONAL STUDIO (Code 108)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1113 English Comp 1 (3) 1123 Foundations 1 (3) 1661 Comp App (1) Gen Educ Courses (5) Elective (3)	1133 Foundations II (3) 1213 English Comp II (3) Gen Educ Courses (9)
Total (16)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1143 Foundation III (3) 2133 Intro Graphic Design (3) Gen Educ Course (3) Required Major Course (3) Studio Elective (3)	Art History Course (3) Gen Educ Courses (6) Required Major Course (3) Studio Elective (3)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Gen Educ Courses (4) Required Major Course (6) Studio Elective (3)	Art History Course (3) Gen Educ Courses (4) Required Major Course (3) Studio Electives (6)
Total (16)	Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Gen Educ Course (3) Required Major Course (3) Studio Electives (6)	4651 Senior Exhibit (1) Required Major Course (6) Studio Electives (6)
Total (15)	Total (13)

* 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**

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 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
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**

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 (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 major3.00

THREE-DIMENSIONAL STUDIO (Code 111) Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1113 English Comp I (3) 1123 Foundations I (3) 1661 Comp App (1) Gen Educ Courses (6)	1133 Foundations II (3) 1213 English Comp II (3) Gen Educ Courses (9)
Total (14)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1143 Foundations III (3) 2133 Intro Graphic Design (3) Elective (3) Required Major Course (3) Studio Elective (3)	Art History Course (3) Gen Educ Courses (7) Required Major Course (3) Studio Elective (3)
Total (15)	Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Gen Educ Courses (4) Required Major Courses (6) Studio Elective (3)	Art History Course (3) Gen Educ Courses (6) Required Major Course (3) Studio Elective (3)
Total (16)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Art History Course (3) Gen Educ Course (3) Required Major Course (3) Studio Elective (6)	4651 Senior Exhibit (1) Free Elective (3) Required Major Courses (6) Studio Electives (6)
Total (15)	Total (16)

* 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
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 (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**

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

Required **22**

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

Required **25**

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

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
(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 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

FIRST YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spring odd)
1001 Freshman Orient*(1) 1113 English Comp 1 (3) 1313 Intro to Public Speaking (3) Gen Educ Courses (8)	1213 English Comp II (3) 2123 Interpersonal Comm (3) Gen Educ Courses (9)
Total (15)	Total (15)

SECOND YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (spring even)
1263 Intro to Theatre (3) Gen Educ Courses (12)	2223 Intro to Comm Studies (3) 3573 Intercultural Comm (3) Gen Educ Courses (6) Minor Courses (3)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spring odd)
3543 Small Group Comm (3) 3563 Argument & Debate (3) Elective (3) Minor Courses (6)	2103 Intro to Mass Comm (3) 4343 Communication Theory (3) Comm Arts Electives (3) Minor Courses (6)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (spring even)
3073 Persuasion (3) 4363 Organizational Comm (3) Comm Arts Electives (6) General Electives (3)	4121 Senior Seminar (1) Comm Arts Electives (3) General Electives (8) Minor courses (3)
Total (15)	Total (15)

* 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

FIRST YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (spring even)
1001 Freshman Orient* (1) 1113 English Comp 1 (3) 1313 Intro to Public Speaking (3) Gen Educ Courses (8)	1213 English Comp II (3) 2223 Intro to Comm Studies (3) Gen Educ Courses (9)
Total (15)	Total (15)

SECOND YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spring odd)
2123 Interpersonal Comm (3) Gen Educ Courses (12)	1263 Intro to Theatre (3) 2103 Intro to Mass Comm (3) Gen Educ Courses (6) Minor Courses (3)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (spring even)
3073 Persuasion (3) 4363 Organizational Comm (3) Elective (3) Minor courses (6)	3573 Intercultural Comm (3) Comm Arts Electives (6) Minor Courses (6)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spring odd)
3543 Small Group Comm (3) 3563 Argument & Debate (3) Comm Arts Electives (3) General Electives (6)	4121 Senior Seminar (1) 4343 Communication Theory (3) General Electives (5) Minor Courses (6)
Total (15)	Total (15)

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

**COMMUNICATION ARTS
THEATRE EMPHASIS (Code 185)
Suggested Course Sequence**

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*(1) 1113 English Comp 1 (3) 1263 Intro to Theatre (3) 1313 Intro to Public Speaking (3) Gen Educ Courses (5)	1213 English Comp II (3) 2103 Intro to Mass Comm (3) 3761 Theatre Production (1) Gen Educ Courses (8)
Total (15)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2123 Interpersonal Comm (3) 2363 Acting I (3) 2763 Stagecraft (3) Gen Educ Courses (6)	3761 Theatre Production (1) Gen Educ Courses (9) General Electives (2) Minor Course (3)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3761 Theatre Production (1) 4463 Theatre History: Greek to 1660 (3) Gen Educ Course (3) Minor courses (8)	4663 Theatre History: 1660 to Present (3) Comm Arts Electives (3) General Elective (3) Minor Courses (6)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3663 Script Analysis (3) General Electives (6) Minor Course (3) Tech Theatre Course (3)	3761 Theatre Production (1) 4483 Play Directing (3) Comm Arts Electives (3) General Electives (8)
Total (15)	Total (15)

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

COMMUNICATION ARTS
MASS COMMUNICATION EMPHASIS (Code185)
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*(1) 1113 English Comp 1 (3) 1313 Intro to Public Speaking (3) Gen Educ Courses (8)	1213 English Comp II (3) 1263 Intro to Theatre (3) Gen Educ Courses (9)
Total (15)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2103 Intro to Mass Comm (3) 2113 Writing for Mass Media (3) Gen Educ Courses (9)	2123 Interpersonal Comm (3) 2213 News Gathering & Reporting (3) Gen Educ Courses (6) Minor Course (3)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3113 News Editing (3) 3413 Desktop Publishing (3) General Elective (3) Minor courses (6)	3613 Specialized Pub (3) Comm Arts Electives (6) Minor Courses (6)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4243 Media Production (3) Comm Arts Electives (3) General Electives (6) Minor Course (3)	4293 Media, Law & Ethics (3) General Electives (9) Minor course (3)
Total (15)	Total (15)

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

DEPARTMENT OF BIOLOGICAL SCIENCES COLLEGE OF ARTS AND SCIENCES

FACULTY

Andrea Holgado, Chair
Science Building, Room 214
Phone: (580) 774-3230
E-mail: andrea.holgado@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
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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
Organismal & Environmental 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)

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, Trubitsyn, Ubeidat

B.S. Biological Sciences, Environmental and Organismal Biology Option

Aracena, Boggs, Castle, Cothran, Jones, O'Neal

B.S. Microbiology

McGrane, Paul, Trubitsyn

B.S. Microbiology, Medical Laboratory Sciences Option

Holgado

B.S. Ed. Natural Sciences Education

Boggs

Transfer Students

Holgado

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

Pre-Medicine, Pre-Osteopathic Medicine

Ball, Holgado, Horton, Trubitsyn, Ubeidat

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. Andrea Holgado
Department of Biological Sciences
SCI 214
(580) 774-3230
andrea.holgado@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**

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics **3**

Select one course.

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 **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.

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**

Biological Sciences Major

Required Courses **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**

(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].)

BIOL 3012 Biological Terminology
BIOL 3304 Aquatic Ecology [F]
BIOL 3604 Biology of Insects [F]
BIOL 3704 Human Anatomy
BIOL 3814 Biology of Plants [P]
BIOL 3904 Human Physiology
BIOL 4001-4 Independent Studies
BIOL 4010-4 Seminar in Biology
(A maximum of 4 hours total of Independent Studies and Seminar may be counted toward the major.)
BIOL 4021-4 Special Topics in Biomedical Sciences
BIOL 4031-4 Special Topics in Microbiology
BIOL 4041-4 Special Topics Environ & Organismal Biology
BIOL 4154 Developmental Biology
BIOL 4204 Vertebrate Biology
BIOL 4213 Immunology
BIOL 4254 Invertebrate Biology [F]
BIOL 4284 Parasitology
BIOL 4314 Environmental Biology [F]
BIOL 4343 Applied Microbiology
BIOL 4355 Microbiology
BIOL 4404 Pathogenic Microbiology
BIOL 4454 Plant Taxonomy [P & F]
BIOL 4463 Virology
BIOL 4503 Microbial Physiology
BIOL 4523 Environmental Microbiology
BIOL 4604 Terrestrial Ecology [F & P]
BIOL 4622 Economically Important Plants [P]
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 3413 Statistical Methods I OR 3433 Statistics I
OR PSYCH 2433 Psychological Statistics
CHEM 1303 & 1332 General Chemistry II (Lecture and Lab)
CHEM 2114 Organic/Biochemistry OR one higher numbered chemistry course with lab
PHY 1063 General 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

BIOLOGICAL SCIENCES (Code 103)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1054 Principles of Biology I (4) 1113 English Composition I (3) 1513 College Algebra (3) General Education (1-4)	1254 Principles of Biology II (4) 1213 English Composition II (3) 1613 College Trigonometry (3) General Education (2-5)
Total (12-15)	Total (12-15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3253 Genetics (3) 3152 Genetics and Cell Biology Lab (2) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) Major electives, Minor courses, or General Education (3-7)	3053 Cell Biology (3) 3283 Ecology (3) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) General Education (1-3) Statistics course (3)
Total (13-17)	Total (15-17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Field/Plant course elective (4) Chemistry requirements (4)* Major electives, Minor courses, or General Education (3-7) Physics requirements (3-4)*	Chemistry requirements (4)* Field/Plant course elective (4) Major electives, Minor courses, or General Education (3-7) Physics requirements (4)*
Total (14-19)	Total (15-19)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Major electives, Minor courses, General Education or Free electives (15)	4901 Biological Sciences Capstone (1) Major electives, Minor courses General Education or Free electives (14)
Total (15)	Total (15)

* 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.

* 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 HOURSMin. 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 Diversity3-4

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 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

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 [F]
BIOL 4355 Microbiology
BIOL 4404 Pathogenic Microbiology
BIOL 4454 Plant Taxonomy [P&F]
BIOL 4463 Virology
BIOL 4604 Terrestrial Ecology [P&F]
BIOL 4622 Economically Important Plants [P]
BIOL 4703 Infectious Disease Epidemiology
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 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

(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 SWOSU8
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.

TOTAL GENERAL EDUCATION HOURSMin. 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. History3

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

Science9

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 Diversity3-4

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 (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 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 [F]
BIOL 4343 Applied Microbiology
BIOL 4355 Microbiology
BIOL 4454 Plant Taxonomy [P&F]
BIOL 4463 Virology
BIOL 4523 Environmental Microbiology
BIOL 4604 Terrestrial Ecology [P&F]
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 General 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 & sciences55
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 coursework2.00
Minimum Grade Point Average in major2.00

PRE-PROFESSIONAL PROGRAMS (Codes 115 & 117)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1054 Principles of Biology I (4) 1113 English Composition I (3) 1203 General Chemistry I(3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) Total (15)	1254 Principles of Biology II (4) 1213 English Composition II (3) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 1613 College Trigonometry (3) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3152 Genetics and Cell Biology Lab (2) 3253 Genetics (3) Chemistry requirements (4)* General Education (4-6) Statistics course (3) Total (16-18)	3053 Cell Biology (3) 3283 Ecology (3) Chemistry requirements (4)* General Education (4-6) Total (14-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Field/Plant course elective (4) Option electives, Minor courses, or General Education (7-11) Physics requirements (3-4)* MCAT, DAT, or other admissions tests should be taken in the junior year. Total (14-19)	Field/Plant course elective (4) Option electives, Minor courses, or General Education (7-11) Physics requirements (4)* MCAT, DAT, or other admissions tests should be taken in the junior year. Total (15-19)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Option electives, Minor courses, or General Education (15) Total (15)	4901 Biological Sciences Capstone (1) Option electives, Minor courses, or General Education (14) Total (15)

* 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.

BACHELOR OF SCIENCE - MICROBIOLOGY (Code No. 158)

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.

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**

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 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 General Chemistry II and lab
CHEM 4113 & 4021 General 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 (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 (Code 158)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1054 Principles of Biology I (4) 1113 English Composition I (3) 1203 General Chemistry I(3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) Total (15)	1254 Principles of Biology II (4) 1213 English Composition II (3) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 1613 College Trigonometry (3) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3152 Genetics and Cell Biology Lab (2) 3253 Genetics (3) Chemistry requirements (4)* General Education (4-6) Statistics course (3) Total (16-18)	3053 Cell Biology (3) 3283 Ecology (3) Chemistry requirements (4)* General Education (4-6) Total (14-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Human Anatomy (4) Option electives, Minor courses, or General Education (7-11) Physics requirements (3-4)* MCAT, DAT, or other admissions tests should be taken in the junior year. Total (14-19)	Microbiology (5) Option electives, Minor courses, or General Education (7-11) Physics requirements (4)* MCAT, DAT, or other admissions tests should be taken in the junior year. Total (15-19)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Immunology (3) Option electives, Minor courses, or General Education (12) Total (15)	4901 Biological Sciences Capstone (1) Option electives, Minor courses, or General Education (14) Total (15)

* 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.

BACHELOR OF SCIENCE - MICROBIOLOGY MEDICAL LABORATORY SCIENCE OPTION (3+1) (Code No. 552)

GENERAL EDUCATION

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

TOTAL GENERAL EDUCATION HOURSMin. 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 1513 College Algebra
or a higher numbered math course

U. S. History3

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 1054 Principles of Biology I w/Lab

Physical Science.....3-4

CHEM 1004 General Chemistry w/Lab

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

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 Diversity3

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 Intro to Public Speaking

Medical Laboratory Science Option

Required Courses.....16

BIOL 1254 Principles of Biology II

BIOL 3704 Human Anatomy

BIOL 4213 Immunology

BIOL 4355 Microbiology

Electives.....14

BIOL 3053 Cell Biology

BIOL 3152 Genetics and Cell Biology Lab

BIOL 3253 Genetics

BIOL 3904 Human Physiology

BIOL 4031-4 Special Topics in Microbiology

BIOL 4284 Parasitology

BIOL 4343 Applied Microbiology

BIOL 4404 Pathogenic Microbiology

BIOL 4463 Virology

BIOL 4503 Microbial Physiology

BIOL 4523 Environmental Microbiology

BIOL 4703 Infectious Disease Epidemiology

BIOL 4914 General and Comparative Physiology

BIOL 4935 Cell and Molecular Biology

BIOL 4974 Histology

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

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

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

MLS 4351 Topics in Medical Laboratory Science

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 major2.00

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

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (1) ⁺ 1054 Principles of Biology I (4) 1113 English Composition I(3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3)	1213 English Composition II (3) 1254 Principles of Biology II (4) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) General Education (3)
Total (16)	Total (15)

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

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3704 Human Anatomy (4) 4124 Biochemistry (4) Biology Electives (4) General Education (3)	Biology Electives (12) General Education (4)
Total (15)	Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Clinical course taken at an accredited hospital affiliate (15)	Clinical course taken at an accredited hospital affiliate (15)
Total (15)	Total (15)

⁺ 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**

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

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics.....**3**

Select one course.

**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 1054 Principles of Biology I w/Lab

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

CHEM 1004 General Chemistry w/Lab

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**

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**

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

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**

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.....**28**

BIOL 3904 Human Physiology
OR BIOL 4914 Gen & Comp Physiology
BIOL 4031-4 Special Topics in Microbiology
BIOL 4284 Parasitology
BIOL 4343 Applied Microbiology
BIOL 4404 Pathogenic Microbiology
BIOL 4463 Virology
BIOL 4503 Microbial Physiology
BIOL 4523 Environmental Microbiology
BIOL 4703 Infectious Disease Epidemiology
BIOL 4914 General and Comparative Physiology
BIOL 4974 Histology

Recommend the following for Plant/Field Biol Requirement:

BIOL 4454 Plant Taxonomy
OR BIOL 4604 Terrestrial Ecology

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

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)

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

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

MLS 4351 Topics in Medical Laboratory Science

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (1)+ 1054 Principles of Biology I (4) 1113 English Composition I (3) 1513 College Algebra (3) General Education (4) Total (15)	1254 Principles of Biology II (4) 1213 English Composition II (3) 1613 College Trigonometry (3) General Education (5) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 3152 Genetics and Cell Biology Lab (2) 3253 Genetics (3) Major electives, Minor courses, or General Education (4-6) Statistics course (3) Total (17-19)	1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 3053 Cell Biology (3) 3283 Ecology (3) General Education (6) Total (17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Chemistry requirements (4)* Field/Plant course elective (4) Option electives, Minor courses, or General Education (4-7) Physics requirements (3-4) Total (15-19)	Chemistry requirements (4)* Field/Plant course elective (4) Option electives, Minor courses, or General Education (4-7) Physics requirements (3-4) Total (15-19)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Major electives, Minor courses, or General Education (15) Total (15)	4901 Biological Sciences Capstone (1) Major electives, Minor courses, or General Education (14) Total (15)

FIFTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Clinical course taken at an accredited hospital affiliate (15) Total (15)	Clinical course taken at an accredited hospital affiliate (15) Total (15)

+ 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
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Email: jason.johnson@swosu.edu
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CHEMISTRY

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Douglas Linder.....	CPP 205 A	douglas.linder@swosu.edu	(580) 774-3266
David Martin.....	CPP 205 D	david.martyn@swosu.edu	(580) 774-3114

PHYSICS

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Terry Goforth	CPP 101 C.....	terry.goforth@swosu.edu	(580) 774-3109
Tony Stein.....	CPP 101 B.....	tony.stein@swosu.edu	(580) 774-3107
Wayne Trail.....	CPP 104	wayne.trail@swosu.edu	(580) 774-3124

CHEMISTRY GOALS AND OBJECTIVES

- 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.
- 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.
- 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:
 - Basic science content that includes an introduction to Physics and laboratory experiences;
 - Mathematical content that includes the application of integral and differential calculus, differential equations, systems of equations using linear algebra, and probability and statistics;
 - Technical core that prepares students for the increasingly complex technical specialties they will experience later in the curriculum;
 - 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:
 - Construct an appropriate understanding of physical phenomena in an applied and interdisciplinary context;
 - Communicate effectively;
 - Develop as emerging leaders in engineering, physics, academia, medicine, business, and public service.
 - 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

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, Imation, 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/>

BACHELOR OF ARTS CHEMISTRY B.A. (Code No. 104)

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 **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**

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 4011-4 Seminar in Chem Spec Topics
CHEM 4124 Biochemistry
CHEM 4213 Advanced Organic Synthesis
CHEM 4234 Instrumental Analysis
CHEM 4343 Materials Chemistry
CHEM 4254 Industrial Chem. and Environ Regs
CHEM 4554 Advanced Organic Spectroscopy
CHEM 4673 Advanced Metabolism

Continued on next page

Biochemistry Option

Required7

CHEM	4124	Biochemistry
CHEM	4673	Advanced Metabolism

Electives5-7

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

Required8

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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Computers & Info Access (3) 1113 English Comp I (3) 1513 College Algebra (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 4900 Seminar Attendance (0)	1213 English Comp II (3) 1303 General Chem II (3) 1352 General Chem II Lab (2) 2612 Principles of Laboratory Safety (2) 4900 Seminar Attendance (0) General Ed Course (3) Math Elective (3-4)
Total (15)	Total (16-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 1054 Principles of Biology I (4) 3015 Organic Chemistry I (5) 4900 Seminar Attendance (0) General Ed Course (3)	1054 Basic Physics II (4) 4015 Organic Chemistry II (5) 4900 Seminar Attendance (0) General Ed Courses (6)
Total (16)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3124 Quantitative Analysis (4) 4900 Seminar Attendance (0) General Ed Course (3) Life Science Elective (4) Minor Elective (4)	4900 Seminar Attendance (0) Chemistry Elective (4) General Ed Course (3) Life Science Elective (4) Minor Elective (4)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3901 Seminar in Chemistry I (1) 4900 Seminar Attendance (0) Chemistry Elective (3-4) General Ed Courses (6) Minor Elective (4)	4900 Seminar Attendance (0) 4901 Seminar in Chemistry II (1) Chemistry Electives (3-4) Free Electives (3) Minor Electives (8)
Total (14-15)	Total (15-16)

*First time entering Freshmen need to take 1001 Freshman Orientation

CHEMISTRY (B.A.) (Code 104)
Biochemistry Emphasis
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Computers & Info Access (3) 1113 English Comp I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) 4900 Seminar Attendance (0)	1213 English Comp II (3) 1303 General Chem II (3) 1352 General Chem II Lab (2) 2612 Principles of Laboratory Safety (2) 4900 Seminar Attendance (0) General Ed Course (3) Math Elective (3-4)
Total (15)	Total (16-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 1054 Principles of Biology I (4) 3015 Organic Chemistry I (5) 4900 Seminar Attendance (0) General Ed Course (3)	1054 Basic Physics II (4) 1254 Principles of Biology II (4) 4015 Organic Chemistry II (5) 4900 Seminar Attendance (0) General Ed Course (3)
Total (16)	Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3124 Quantitative Analysis (4) 4124 Biochemistry (4) 4900 Seminar Attendance (0) General Ed Course (3) Minor Elective (4)	4673 Advanced Metabolism OR Biochemistry Elective (3-4) 4900 Seminar Attendance (0) Biochem Elective (4) Gen Ed Course (3) Minor Elective (4)
Total (15)	Total (14-15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3901 Seminar in Chemistry I (1) 4900 Seminar Attendance (0) Biochemistry Elective (3-4) General Ed Courses (6) Minor Elective (4)	4673 Advanced Metabolism OR Biochemistry Elective (3-4) 4900 Seminar Attendance (0) 4901 Seminar in Chemistry II (1) Free Electives (8) Minor Electives (4)
Total (14-15)	Total (16-17)

*First time entering Freshmen need to take 1001 Freshman Orientation

CHEMISTRY (B.A.) (Code 104)
Environmental Chemistry Emphasis
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Computers & Info Access (3) 1113 English Comp I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) 4900 Seminar Attendance (0)	1213 English Comp II (3) 1303 General Chem II (3) 1352 General Chem II Lab (2) 2612 Principles of Laboratory Safety (2) 3433 Statistics I (3) 4900 Seminar Attendance (0) General Ed Course (3)
Total (15)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 1054 Principles of Biology I (4) 3015 Organic Chemistry I (5) 4900 Seminar Attendance (0) General Ed Course (3)	1054 Basic Physics II (4) 4015 Organic Chemistry II (5) 4900 Seminar Attendance (0) General Ed Courses (6)
Total (16)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3124 Quantitative Analysis (4) 4900 Seminar Attendance (0) General Ed Course (3) Life Science Elective (4) Minor Elective (4)	3244 Environmental Chemistry OR 4254 Ind Chem & Env Regs (4) 4900 Seminar Attendance (0) Gen Ed Course (3) Life Science Elective (4) Minor Elective (4)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3901 Seminar in Chemistry I (1) 4900 Seminar Attendance (0) Environ Chem Elective (4) General Ed Courses (6) Minor Elective (4)	3244 Environmental Chemistry OR 4254 Ind Chem & Env Regs (4) 4900 Seminar Attendance (0) 4901 Seminar in Chemistry II (1) Free Electives (4) Minor Electives (8)
Total (15)	Total (17)

*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 HOURSMin. 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. History3

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

Science7-8

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 Diversity3

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 with lab
CHEM 4011-4 Sem in Chem Spec.Topics (when offered)
CHEM 4124 Biochemistry
CHEM 4213 Advanced Organic Synthesis
CHEM 4223 Polymer Chemistry
CHEM 4234 Instrumental Analysis
CHEM 4254 Industrial Chem. and Env Regs
CHEM 4343 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 SWOSU8
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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Comp I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1613 College Trig (3) 4900 Seminar Attendance (0) General Ed Course (3) Total (15)	1023 Comp & Info Access (3) 1213 English Comp II (3) 1303 General Chemistry I (3) 1352 General Chemistry II Lab (2) 1834 Calculus I (4) 2612 Principles of Lab Safety (2) 4900 Seminar Attendance (0) Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2834 Calculus II (4) 3015 Organic Chemistry I (5) 3124 Quantitative Analysis (4) 4900 Seminar Attendance (0) General Ed Course (3) Total (16)	2112 Struct & Bond Theory (2) 2415 Gen Physics I (5) 3834 Calculus III (4) 4115 Organic Chemistry II (5) 4900 Seminar Attendance (0) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
2155 Gen Physics II (5) 3343 Physical Chem I OR Chemistry Elective (3-4) 4900 Seminar Attendance (0) General Ed Courses (6) Total (14-15)	4900 Seminar Attendance (0) Chemistry Electives (7-8) Free Elective (3) General Ed Courses (6) Total (16-17)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3343 Physical Chem I OR Chemistry Elective (3-4) 3901 Seminar in Chemistry I (1) 4001 Chemistry Research (1) Chemistry Elective (3-4) General Ed Courses (6) Total (14-16)	4001 Chemistry Research (1) 4900 Seminar Attendance (0) 4901 Seminar in Chemistry II (1) Chemistry Elective (3-4) Free Elective (3) General Chemistry Electives (6) Total (14-15)

*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.

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**

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 4213 Advanced Organic Synthesis
CHEM 4223 Polymer Chemistry
CHEM 4343 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
PHY 2145 General Physics I
PHY 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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Comp I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1613 College Trig (3) 4900 Seminar Attendance (0) General Ed Course (3) Total (15)	1023 Comp & Info Access (3) 1213 English Comp II (3) 1303 General Chemistry I (3) 1352 General Chemistry II Lab (2) 1834 Calculus I (4) 2612 Principles of Lab Safety (2) 4900 Seminar Attendance (0) Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2834 Calculus II (4) 3015 Organic Chemistry I (5) 3124 Quantitative Analysis (4) 4900 Seminar Attendance (0) General Ed Course (3) Total (16)	2112 Struct & Bond Theory (2) 2415 Gen Physics I (5) 3834 Calculus III (4) 4115 Organic Chemistry II (5) 4900 Seminar Attendance (0) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
2155 Gen Physics II (5) 3343 Physical Chem I OR 3233 Inorganic Chem AND 3211 Inorg Chem Lab (3-4) 4900 Seminar Attendance (0) General Ed Courses (6) Total (14-15)	4234 Instrum Analysis OR 4124 Biochemistry (4) 4455 Physical Chem II OR Chemistry Elective (4-5) General Ed Courses (6) Total (14-15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3343 Physical Chem I OR 3233 Inorganic Chem AND 3211 Inorg Chem Lab (3-4) 3901 Seminar in Chemistry I (1) 4001 Chemistry Research (1) 4900 Seminar Attendance (0) Free Elective (3) General Ed Courses (6) Total (14-15)	4001 Chemistry Research (1) 4234 Instrum Analysis OR 4124 Biochemistry (4) 4455 Physical Chem II OR Chemistry Elective (4-5) 4900 Seminar Attendance (0) 4901 Seminar in Chemistry II (1) Free Elective (3) General Ed Course (3) Total (16-17)

*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**

Select one course.

**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 **3-4**

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Comp & Info Access (3) 1113 English Comp I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1613 College Trig (3) 2021 Intro to Eng Physics (1)	1213 English Comp II (3) 1303 General Chemistry I (3) 1352 General Chemistry II Lab (2) 1834 Calculus I (4) 2145 Gen Physics I (5)
Total (16)	Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1022 Computer Science I (3) 2155 Gen Physics II (5) 2203 Rigid Body Mechanics (3) 2834 Calculus II (4)	2213 Strength of Materials (3) 3403 Modern Physics (3) 3411 Modern Physics Lab (1) 3834 Calculus III (4) General Ed Course (3)
Total (15)	Total (14)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3112 Exptl Techniques OR 4644 Elec & Mag I (2-4) 4213 Diff Equations (3) 4723 Quantum Mechanics OR Physics Elective (3) General Ed Courses (5-7)	3424 Optics OR 3544 Digital Electronics OR 3413 Analog Electronics (3-4) 3603 Mechanics OR 3563 Thermodynamics (3) Engineering Graphics (3) General Education Courses (5-6)
Total (13-17)	Total (14-16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3112 Exptl Techniques OR 4644 Elec & Mag I (2-4) 4723 Quantum Mechanics OR Physics Elective (3-4) General Ed Courses (6-9)	3424 Optics OR 3544 Digital Electronics OR 3413 Analog Electronics (3-4) 3603 Mechanics OR 3563 Thermodynamics (3) 4011 Physics Seminar (1) General Ed Courses (6)
Total (13-14)	Total (13-14)

*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.

Education 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

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**

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

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

Continued next column

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**

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:

Allied Health Sciences
American Indian Studies
Art
Biology
Business
Chemistry
Communication & Theatre
Computer Science
Criminal Justice
Economics
Education

English
History
Kinesiology
Mathematics
Music
Parks & Rec Mngmt
Physics
Political Science
Psychology
Spanish
Technology

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

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 discipline areas completed at SWOSU 8

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

Minimum grade point average in all coursework 2.00

DISCIPLINE AREA REQUIREMENTS (Choose 3 areas with 21 hours each to total 63 hours)

ALLIED HEALTH SCIENCES

ALHLT 1401	Allied Health Careers	ALHLT 3183	Cultural Comp. in Hlthcare	ALHLT 4074	Pathophysiology
ALHLT 2045	EMS I	ALHLT 3193	U.S. Healthcare System	ALHLT 4081	Hlth. Sci. Senior Summit
ALHLT 2055	EMS II	ALHLT 3861-4	Health Science Internship	ALHLT 4093	Epidemiology
ALHLT 2066	Advanced EMT	ALHLT 3933	Healthcare Management	ALHLT 4123	Hlthcare Revenue Cycle
ALHLT 2453	Medical Terminology	ALHLT 3963	Healthcare Project Mngmt	ATEP 2633	Cardiac and Emerg Care
ALHLT 3043	Health Statistics	ALHLT 3971	Health Care Field Exp	HIM 3122	Intro to Elec Hlth Records
ALHLT 3043L	Health Statistics Lab	ALHLT 3972-8	Health Care Internship	HIM 3363	Hlthcare Comp. & Risk
ALHLT 3053	Adv. Medical Terminology	ALHLT 4001	Indiv Study in ALHLT	HIM 3453	Hlthcare Reimb
ALHLT 3073	Diag., Drugs & Therapeu	ALHLT 4043	Healthcare Law & Ethics	HIM 4113	Hlthcare Quality Measures

AMERICAN INDIAN STUDIES

ACCTG 1123	Intro to Accounting	CATC 1423	Adv C&A Constitution	CATC 2523	OMB Circulars
ACCTG 2213	Prin of Financial Acctg	CATC 1553	Lit of the Am Indian	CATC 2603	C&A History
CATC 1001-4	Ind Stdy in Am Ind Studies	CATC 1563	Music of the Am Indian	CATC 2613	Found of Nat Am Land Law
CATC 1011-4	Sem in Am Indian Studies	CATC 2103	Budget Operations	ENTRP 1123	Intro to Business
CATC 2001-4	Ind Stdy in Am Ind Studies	CATC 2123	Intro to Tribal Adm	HIST 4103	American Indians
CATC 2011-4	Sem in Am Indian Studies	CATC 2133	Tribal Govt I	HIST 4353	History of Oklahoma
CATC 1111	Intro to Am Indian Studies	CATC 2143	Art Hist of Plains Indian	KINES 1153	Nutrition
CATC 1204	Cheyenne Language I	CATC 2203	American Indians Today	KINES 3393	Nutrition for Children
CATC 1214	Cheyenne Language II	CATC 2233	Tribal Govt II	KINES 4013	Nat Am Wellness Conc
CATC 1254	Arapaho Language I	CATC 2313	Self-Det Contr & Edu Act	LIT 3513	Lit of the Am West
CATC 1264	Arapaho Language II	CATC 2413	Self-Det Contracts I	LIT 4593	Diversity in Am Lit
CATC 1402	C&A Constitution	CATC 2423	Tribal Economics		
CATC 1413	Am Indian Belief Systems	CATC 2513	Self-Determ Contracts II		

ART

ART 1113	Fundamentals of Art	ART 3014	Seminar in Art	ART 3883	Advertising Design
ART 1123	Foundations I, Drawing	ART 3113	Watercolor Studio	ART 3923	Advanced Graphic Design I
ART 1133	Found II, Two-Dim Des	ART 3153	Figure Drawing	ART 3953	Professional Practice
ART 1143	Found III, 3-Dim Design	ART 3213	Computer Graphics	ART 4163	Portfolio
ART 2011	Seminar in Art	ART 3353	Clay Studio	ART 4253	Applied Design
ART 2012	Seminar in Art	ART 3413	Sculpture Studio	ART 4313	Painting Studio
ART 2013	Seminar in Art	ART 3483	Printmaking Studio	ART 4333	Studio Drawing
ART 2014	Seminar in Art	ART 3513	Intermediate Graphic Design I	ART 4353	Modern Art History
ART 2113	Acrylic Techniques	ART 3613	History of Art I	ART 4383	Art History Since 1945
ART 2133	Intro to Graphic Design	ART 3653	History of Art II	ART 4393	Non-Western Art Survey
ART 2143	Hist of Graphic Design	ART 3683	Illustration Studio	ART 4413	Advanced Graphic Design II
ART 3011	Seminar in Art	ART 3753	Life Drawing	ART 4651	Senior Exhibit
ART 3012	Seminar in Art	ART 3783	Intermediate Graphic Design II		
ART 3013	Seminar in Art	ART 3853	Typographic Design		

BIOLOGY

Students who select Biology as a discipline area must take BIOL 1054 Principles of Biology (required) in place of Biological Concepts.

BIOL 1054	Principles of Biology I	BIOL 4021-4	Spec Topics Biomed Sci	BIOL 4503	Microbial Physiology
BIOL 1054L	Princ of Biology Lab I	BIOL 4031-4	Spec Topics Microbiology	BIOL 4523	Environmental Microbiology
BIOL 1254	Principles of Biology II	BIOL 4041-4	Special Topics Environ &	BIOL 4604	Terrestrial Ecology
BIOL 1254L	Princ of Biology II Lab		Organismal Biology	BIOL 4604L	Terrestrial Ecology Lab
BIOL 3012	Biology Terminology	BIOL 4154	Developmental Biology	BIOL 4622	Econ Import Plants
BIOL 3053	Cell Biology	BIOL 4154L	Developmental Biol Lab	BIOL 4853	Evolution
BIOL 3152	Genetics & Cell Biol Lab	BIOL 4204	Vertebrate Biology	BIOL 4864	Human Genetics
BIOL 3253	Genetics	BIOL 4204L	Vertebrate Biology Lab	BIOL 4864L	Human Genetics Lab
BIOL 3283	Ecology	BIOL 4213	Immunology	BIOL 4914	Gen Comparative Physiology
BIOL 3304	Aquatic Ecology	BIOL 4254	Invertebrate Biology	BIOL 4914L	Gen Comp Physio Lab
BIOL 3304L	Aquatic Ecology Lab	BIOL 4254L	Invertebrate Biology Lab	BIOL 4935	Cell Molecular Biology
BIOL 3604	Biology of Insects	BIOL 4284	Parasitology	BIOL 4935L	Cell Molecular Biol Lab
BIOL 3604L	Biology of Insects Lab	BIOL 4284L	Parasitology Lab	BIOL 4944	Neurosciences
BIOL 3704	Human Anatomy	BIOL 4314	Environmental Biology	BIOL 4944L	Neurosciences Lab
BIOL 3704L	Human Anatomy Lab	BIOL 4314L	Environmental Biology Lab	BIOL 4974	Histology
BIOL 3814	Biology of Plants	BIOL 4343	Applied Microbiology	BIOL 4974L	Histology Lab
BIOL 3814L	Biology of Plants Lab	BIOL 4355	Microbiology		
BIOL 3904	Human Physiology	BIOL 4355L	Microbiology Lab		
BIOL 3904L	Human Physiology Lab	BIOL 4404	Pathogenic Microbiology		
BIOL 4010-4	Seminar in Biology (A maximum of 4 hours total of seminar may be counted toward major)	BIOL 4404L	Pathogenic Microbio Lab		
		BIOL 4454	Plant Taxonomy		
		BIOL 4454L	Plant Taxonomy Lab		
		BIOL 4463	Virology		

BUSINESS

Courses with an "*" require prerequisite(s)

ACCTG 2213	Prin of Financial Acctg	ENTRP 3423	Business Communications*	MNGMT 4013	Seminar in Management*
ACCTG 2313	Prin of Managerl Acctg	ENTRP 3723	International Business*	MNGMT 4123	Managerial Ethics*
ACCTG 3213	Accounting Info Systems*	ENTRP 3823	Quantitative Meth Bus*	MNGMT 4133	Prod/Operations Management*
ACCTG 3313	Intermediate Acctg I*	ENTRP 3923	Adv Comp Business App*	MNGMT 4183	Sales Skills & Management*
ACCTG 3323	Intermediate Acctg II*	ENTRP 4013	Seminar in Entrepreneurship	MNGMT 4213	Crisis Management*
ACCTG 3493	Analyzing Finan Statements*	ENTRP 4123	Professional Issues	MNGMT 4243	Practical Management Skills*
ACCTG 3713	Cost Accounting*	FINAN 3213	Risk Management*	MNGMT 4283	Team Management*
ACCTG 4013	Seminar in Accounting*	FINAN 3313	Real Estate*	MNGMT 4313	Event Management*
ACCTG 4113	Acctg for Gov't Nonprofit Org*	FINAN 3343	Business Finance*	MNGMT 4323	Project Management*
ACCTG 4213	Auditing I*	FINAN 3353	Personal Financial Plan*	MNGMT 4433	Entrepreneurship/New Venture*
ACCTG 4223	Computerized Accounting*	FINAN 3493	Analyzing Finan Statements*	MNGMT 4633	International Management*
ACCTG 4253	Intro to Computer Forensics*	FINAN 3663	Investments*	MRKTG 3143	Principles of Marketing
ACCTG 4313	Income Tax Acctg I*	FINAN 4013	Seminar in Finance*	MRKTG 3243	Promotional Strategy*
ACCTG 4323	Income Tax Acctg II*	FINAN 4063	Financial Institutions/Mrkt*	MRKTG 3263	Retail Management*
ACCTG 4513	Auditing II*	FINAN 4123	Managerial Ethics*	MRKTG 3313	Real Estate*
ACCTG 4613	Advanced Accounting*	FINAN 4213	Commercial Bank Mngmt*	MRKTG 3443	Consumer Behavior*
ACCTG 4623	Accounting Theory*	FINAN 4233	Small Business Finance*	MRKTG 4013	Seminar in Marketing*
ACCTG 4643	Global Acct, Finan, & Invest*	FINAN 4263	Financial Management*	MRKTG 4123	Services Marketing*
ACCTG 4763	Advanced Cost/Manag Acct*	FINAN 4393	International Finance*	MRKTG 4133	Sports Marketing*
ACCTG 4853	Computer Forensics Analysis*	FINAN 4513	Portfolio Management I*	MRKTG 4143	Marketing Management*
ENTRP 1123	Introduction to Business	FINAN 4523	Portfolio Management II*	MRKTG 4183	Sales Skills & Management*
ENTRP 3113	Intro to MIS*	MNGMT 3233	Management	MRKTG 4243	Marketing Research*
ENTRP 3123	Legal Env of Business	MNGMT 3333	Human Resource Mngmt	MRKTG 4443	Channel of Distribution*
ENTRP 3223	Commercial Law*	MNGMT 3433	Organizational Design*	MRKTG 4543	Industrial Marketing*
ENTRP 3313	Real Estate	MNGMT 3533	Organizational Behavior*	MRKTG 4643	International Marketing*

CHEMISTRY

CHEM 1203	Gen Chem I Lecture	CHEM 3124	Quantitative Analysis	CHEM 4124	Biochemistry
CHEM 1252	Gen Chem I Lab	CHEM 3124L	Quant Analysis Lab	CHEM 4124L	Biochemistry Lab
CHEM 1303	Gen Chem II Lecture	CHEM 3234	Inorganic Chemistry	CHEM 4223	Polymer Chemistry
CHEM 1352	Gen Chem II Lab	CHEM 3234L	Inorganic Chem Lab	CHEM 4223L	Polymer Chemistry Lab
CHEM 2011	Sem in Chemistry	CHEM 3244	Environmental Chemistry	CHEM 4234	Instrum Analysis
CHEM 2012	Sem in Chemistry	CHEM 3244L	Environmental Chem Lab	CHEM 4234L	Instr Analysis Lab
CHEM 2013	Sem in Chemistry	CHEM 4011	Seminar in Chemistry	CHEM 4254	Ind Chem & Environ Reg
CHEM 2014	Sem In Chemistry	CHEM 4012	Seminar in Chemistry	CHEM 4344	Physical Chemistry I
CHEM 2114	Organic/Biochemistry	CHEM 4013	Seminar in Chemistry	CHEM 4344L	Physical Chem I Lab
CHEM 2114L	Organic/Biochem Lab	CHEM 4014	Seminar in Chemistry	CHEM 4454	Physical Chem II
CHEM 3013	Organic Chemistry I	CHEM 4021	Organic Chem II Lab	CHEM 4454L	Physical Chem II Lab
CHEM 3015	Organic Chemistry I	CHEM 4113	Organic Chemistry II	CHEM 4554	Adv Organic Spectroscopy
CHEM 3015L	Organic Chem I Lab	CHEM 4115	Organic Chemistry II	CHEM 4673	Metabolism
CHEM 3111	Organic Chem I Lab	CHEM 4115L	Organic Chem II Lab		

COMMUNICATION AND THEATRE

COMM 2001	Ind Study Communication	COMM 3073	Persuasion	COMM 4004	Ind Study Communication
COMM 2002	Ind Study Communication	COMM 3113	News Editing	COMM 4011	Seminar in Communication
COMM 2003	Ind Study Communication	COMM 3213	Advanced News Editing	COMM 4012	Seminar in Communication
COMM 2004	Ind Study Communication	COMM 3313	Feature Writing	COMM 4013	Seminar in Communication
COMM 2011	Sem in Communication	COMM 3333	Photojournalism	COMM 4014	Seminar in Communication
COMM 2012	Sem in Communication	COMM 3363	Script Analysis	COMM 4243	Media Production
COMM 2013	Sem in Communication	COMM 3763	Stage Management	COMM 4293	Media Law and Ethics
COMM 2014	Sem in Communication	COMM 3413	Desktop Publishing	COMM 4343	Communication Theory
COMM 2063	Voice and Diction	COMM 3543	Small Group Comm	COMM 4363	Organizational Comm
COMM 2103	Intro to Mass Comm	COMM 3553	Oral Interpretation	COMM 4403	Scene Design
COMM 2113	Writing for Mass Media	COMM 3563	Argumentation & Debate	COMM 4463	Theatre History: Greek-1660
COMM 2123	Interpersonal Communic	COMM 3573	Intercultural Comm	COMM 4483	Play Directing & Production
COMM 2213	News Gathering/Report	COMM 3613	Specialized Publications	COMM 4663	Theatre Hist: 1660-Present
COMM 2223	Intro to Comm. Studies	COMM 3761	Theatre Production	COMM 4813	Principles of Public Relations
COMM 2363	Acting I	COMM 3963	Costume History	COMM 4823	Writing for Public Relations
COMM 2763	Stage Craft	COMM 4001	Ind Study Communication	COMM 4833	Principles of Advertising
COMM 3013	Theatrical Make-Up	COMM 4002	Ind Study Communication	COMM 4963	Acting II
COMM 3023	Lighting Design	COMM 4003	Ind Study Communication		

COMPUTER SCIENCE

COMSC 1033	Computer Science I	COMSC 3043	Systems Programming	COMSC 3933	Multimedia Systems
COMSC 1053	Computer Science II	COMSC 3053	Operating Systems	COMSC 4001-4	Ind Study Comp Sci
COMSC 1103	Intro to Info Security	COMSC 3133	Software Engineering	COMSC 4011-4	Computer Science Sem
COMSC 1433	Visual Basic Programming	COMSC 3153	Data Comm & Network	COMSC 4033	Principles of Prog Lang
COMSC 2043	Discrete Structures	COMSC 3353	Systems Analysis & Design	COMSC 4053	O-O Software Engineer
COMSC 2413	Data Structures	COMSC 3403	Database Systems	COMSC 4453	Adv Database Systems
COMSC 2463	Program in C# and .NET	COMSC 3513	IS Project Management	COMSC 4513	Dec Supp & Exp Sys
COMSC 2473	Programming in C++	COMSC 3603	Hardware/Software Concepts	COMSC 4921-3	Computer Sci Internship
COMSC 3013	Computer Architecture	COMSC 3913	Web Development	COMSC 4953	CS/IS Capstone I

CRIMINAL JUSTICE

CRMJS 1113	Intro Criminal Justice	CRMJS 3353	The Criminal Mind	CRMJS 4143	Crit Issues Criminal Just
CRMJS 1223	Intro to Law Enforcement	CRMJS 3803	Privat of Criminal Justice	CRMJS 4153	U.S. Corrections
CRMJS 2503	Criminal Justice Admin	CRMJS 4012	Sem in Criminal Justice	CRMJS 4333	Victimology
CRMJS 3163	Socio Devnt & Crim Beh	CRMJS 4013	Sem in Criminal Justice	CRMJS 4903	DR: Reading in Crim Just
CRMJS 3243	Comp Crim Justice System	CRMJS 4103	Juvenile Justice	CRMJS 4913	Internship in Crim Justice

ECONOMICS

ECONO 2263	Intro to Macroeconomics	ECONO 3863	Money and Banking	ECONO 4563	Managerial Economics
ECONO 2363	Intro to Microeconomics	ECONO 4003	Independent Study in Econo	ECONO 4963	International Economics
ECONO 2463	Business Statistics	ECONO 4013	Seminar in Economics		

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.

ART 4452	CM&M Elem School Art	ELEM 4352	Tchng Sci in Elem School	MUSIC 3202	Music Methods Elem Tchrs
EDPSY 3413	Child Psychology	ELEM 4463	Children's Literature	RDNG 3423	Teaching of Reading I
EDUC 2113	Foundations of Educ	KINES 3393	Nutrition for Children	RDNG 3432	Teaching of Reading II
ELEM 3453	Lang Arts in Elem Sch	LIBED 3423	Media & Technology	RDNG 4443	Diag Prac Teaching Reading
ELEM 3513	CMM Math Elem Tchrs	LIT 4463	Children's Literature	SPCED 3132	Exceptional Children
ELEM 3522	CMM/Soc Stu/Elem Tchrs	MATH 1503	Algebra for Elem Tchrs	SPCED 3213	Found Mild/Mod Disabilities
ELEM 4222	Phonics & Penmanship	MATH 2133	Geometry for Elem Tchrs		

ENGLISH

ENGL 2011	Sem in English	ENGL 4675	Teaching of HS English	LIT 3493	Modern Drama
ENGL 2012	Sem in English	LIT 2001	Ind Study Literature	LIT 3513	Lit of the Amer West
ENGL 2013	Sem in English	LIT 2002	Ind Study Literature	LIT 3523	Victorian Poetry
ENGL 2014	Sem in English	LIT 2003	Ind Study Literature	LIT 3533	Brit Renaissance Drama
ENGL 2703	Creative Writing	LIT 2004	Ind Study Literature	LIT 3543	Literature of South
ENGL 3013	Writing Theory/Practice	LIT 2011	Sem in Literature	LIT 3613	Amer Romantic Period
ENGL 3113	Contemporary Fiction	LIT 2012	Sem in Literature	LIT 4001	Ind Study Literature
ENGL 3123	Contemporary Poetry	LIT 2013	Sem in Literature	LIT 4002	Ind Study Literature
ENGL 3473	Creat Writ of Fiction I	LIT 2014	Sem in Literature	LIT 4003	Ind Study Literature
ENGL 3483	Creat Writ of Poetry I	LIT 2333	Intro to Film	LIT 4004	Ind Study Literature
ENGL 3603	English Grammar	LIT 2543	Myster/Detect Fiction	LIT 4011	Seminar in Literature
ENGL 4002	Ind Study in English	LIT 2743	Mythology	LIT 4012	Seminar in Literature
ENGL 4003	Ind Study In English	LIT 2833	Science Fiction	LIT 4013	Seminar in Literature
ENGL 4004	Ind Study In English	LIT 3023	Literature Theory/Practice	LIT 4014	Seminar in Literature
ENGL 4012	Seminar in English	LIT 3033	World Mythology	LIT 4113	Modern World Literature
ENGL 4013	Seminar in English	LIT 3113	Early World Literature	LIT 4233	Young Adult Literature
ENGL 4014	Seminar in English	LIT 3223	Romantic Movement	LIT 4473	Mod Brit and Amer Poetry
ENGL 4423	Intro to Linguistics	LIT 3333	Shakespeare in Context	LIT 4593	Diversity in Amer Lit
ENGL 4453	Advanced Composition	LIT 3343	World Folk Literature	LIT 4623	17 th Cent English Poetry
ENGL 4473	Creat Writ of Poetry II	LIT 3443	Middle English/Chaucer	LIT 4883	Women and Literature
ENGL 4483	Creat Writ of Fiction II	LIT 3453	Age of Reason	LIT 4993	The Novel
ENGL 4663	Creative Nonfiction	LIT 3463	19th Cent Am Realism		

HISTORY

HIST 2603	Writing History	HIST 4001	Ind Study History	HIST 4103	American Indians
HIST 3043	Early Modern Europe	HIST 4011	Seminar in History	HIST 4123	America in the 1950's & 1960's
HIST 3063	History of Ireland	HIST 4012	Seminar in History	HIST 4133	Women in American History
HIST 3083	Nationalism/Ethnicity	HIST 4013	Seminar in History	HIST 4203	Old South
HIST 3103	Tudor England	HIST 4014	Seminar in History	HIST 4213	New South
HIST 3113	Elizabeth I	HIST 4023	Colonl Amer, 1492-1765	HIST 4313	American West
HIST 3173	History of Ideas	HIST 4033	Revol Amer; 1765-1808	HIST 4353	History of Oklahoma
HIST 3193	European Union	HIST 4043	New Nation/Age Jackson	HIST 4803	Public History Internship
HIST 3203	History of Germany	HIST 4053	Civil War & Reconstr	HIST 4901	Dir Read In History
HIST 3303	Hist Imperial Russia	HIST 4063	Gilded Age/Progressive Era	HIST 4902	Dir Read In History
HIST 3403	Modern France	HIST 4073	20th Cent Amer 1915-50	HIST 4903	Dir Read In History
HIST 3503	Early Christian Thought	HIST 4083	America Since 1970	HIST 4904	Dir Read In History
HIST 3603	20 th Century World History	HIST 4093	Historical Resrch/Writ		

KINESIOLOGY

KINES 1153	Nutrition	KINES 3393	Nutrition for Children	KINES 4802	Theo Coach Football
KINES 1932	Tech Ap Gym Fit Aqua	KINES 3443	Kinesiology & Anatomy	KINES 4832	Theo Coach Basketball
KINES 1942	Tech App Indiv Sports	KINES 3553	Methods Materials Elem HPER	KINES 4862	Theo Coach Baseball
KINES 1952	Tech Appl to Team Sprt	KINES 4052	Sociology of Sports	SPRTM 3412	Event Safety Sports & Rec
KINES 2212	First Aid	KINES 4063	Legal Aspect HPER/Athl	SPRTM 3503	Sports Management
KINES 2222	Introduction to Kinesiology	KINES 4122	Org & Adm Athletics	SPRTM 3513	Sports Finance
KINES 2242	Sports Officiating	KINES 4234	Exercise Physiology	SPRTM 3523	Leadership in Sport
KINES 2502	Care/Prev of Athl Inj	KINES 4243	Ther/Prescrip Phy Ed	SPRTM 3533	Olympism and Olympics
KINES 3133	Teaching Health Public School	KINES 4383	Dev/Programs/Facilities/Mngmt	SPRTM 4122	Rec & Sports Mngmt Law
KINES 3353	Health and Aging	KINES 4533	Consumer Health Ed	SPRTM 4132	Rec & Sports Employ Law

SPRTM 4142	Ethics in Rec & Sports Mngmt	SPRTM 4513	Golf Management	SPRTM 4573	Fitness Program Management
SPRTM 4163	Sports Nutrition	SPRTM 4523	Sports Representation		
SPRTM 4502	Rodeo Management	SPRTM 4533	Sports Info Management		

MATHEMATICS

MATH 1513	College Algebra	MATH 3113	Foundations in Mathematics	MATH 4004	Ind Study in Mathematics
MATH 1613	College Trigonometry	MATH 3413	Statistical Methods	MATH 4011	Sem in Mathematics
MATH 1715	College Algebra & Trig	OR MATH 3433	Statistics I	MATH 4012	Sem in Mathematics
MATH 1834	Calculus I	MATH 3453	Mathematical Statistics	MATH 4013	Sem in Mathematics
MATH 2001	Ind Study in Mathematics	MATH 3473	Intro to Probability	MATH 4014	Sem in Mathematics
MATH 2002	Ind Study in Mathematics	MATH 3533	Tech/Prog Mathematics	MATH 4133	Intro to Math Logic
MATH 2003	Ind Study in Mathematics	MATH 3653	Linear Algebra	MATH 4153	History of Mathematics
MATH 2004	Ind Study in Mathematics	MATH 3673	Elem Number Theory	MATH 4213	Differential Equations I
MATH 2011	Sem in Mathematics	MATH 3713	College Geometry	MATH 4223	Differential Equations II
MATH 2012	Sem in Mathematics	MATH 3834	Calculus III	MATH 4653	Modern Algebra
MATH 2013	Sem in Mathematics	MATH 4001	Ind Study in Mathematics	MATH 4753	Intro Point Set Topology
MATH 2014	Sem in Mathematics	MATH 4002	Ind Study in Mathematics	MATH 4853	Advanced Calculus
MATH 2834	Calculus II	MATH 4003	Ind Study in Mathematics	MATH 4873	Complex Variables

MUSIC

Required	MUSIC 1032	Introduction to World Music
Required	MUSIC 1213	Music Theory I
Required	MUSIC 1221	Aural Skills
Required	MUSIC 2981	Principles of Conducting

Required **Applied music, principal area: Select 4 hours** from the following list. (Must complete Level II of the applied music proficiency exam in their principal area.)

MUSIC 1691	Orchestral Instruments	MUSIC 1592	Organ	MUSIC 2391	Piano
MUSIC 1692	Orchestral Instruments	MUSIC 2491	Organ	MUSIC 2392	Piano
MUSIC 1791	Orchestral Instruments	MUSIC 2492	Organ	MUSIC 1091	Voice
MUSIC 1792	Orchestral Instruments	MUSIC 2591	Organ	MUSIC 1092	Voice
MUSIC 2691	Orchestral Instruments	MUSIC 2592	Organ	MUSIC 1192	Voice
MUSIC 2692	Orchestral Instruments	MUSIC 1291	Piano	MUSIC 2091	Voice
MUSIC 2791	Orchestral Instruments	MUSIC 1292	Piano	MUSIC 2092	Voice
MUSIC 2792	Orchestral Instruments	MUSIC 1391	Piano	MUSIC 2191	Voice
MUSIC 1491	Organ	MUSIC 1392	Piano	MUSIC 2192	Voice
MUSIC 1492	Organ	MUSIC 2291	Piano		
MUSIC 1591	Organ	MUSIC 2292	Piano		

Required **Secondary area: If piano is not principal area must select 2 hours** of the following list

MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II

Secondary area: If piano is principal area must select 2 hours of the following list

MUSIC 1411 Brass Class
MUSIC 1511 Woodwind Class
MUSIC 1611 Percussion Class
MUSIC 1711 String Class
MUSIC 1911 Begin Guitar Class
MUSIC 2101 Voice Class

Required **Music ensembles: Select 3 hours** from the following list

MUSIC 4021	Woodwind Ensemble	MUSIC 4041	Percussion Ensemble	MUSIC 4071	Jazz Ensemble
MUSIC 4031	Brass Ensemble	MUSIC 4051	Orchestra	MUSIC 4101	Band
MUSIC 4141	Chorus				

Required MUSIC4900 Recital Attendance
(minimum of three enrollments with passing grade)

Electives - Select 5 hours from the following list

MUSIC 1112	Fund of Music	MUSIC 2101	Voice Class	MUSIC 3253	Music Theory III
MUSIC 1314	Music Theory II	MUSIC 2831	Class Piano III	MUSIC 3303	Music Theory IV
MUSIC 1411	Brass Class	MUSIC 2841	Class Piano IV	MUSIC 3331	Jazz Improvisation
MUSIC 1511	Woodwind Class	MUSIC 3101	Instrumental Conducting	MUSIC 3353	History of Music I
MUSIC 1611	Percussion Class	MUSIC 3101L	Instrument Cond Lab	MUSIC 3403	History of Music II
MUSIC 1711	String Class	MUSIC 3151	Choral Conducting	MUSIC 4261	Intro to Music Tech
MUSIC 1911	Begin Guitar Class	MUSIC 3151L	Choral Conduct Lab		

PARKS AND RECREATION MANAGEMENT

NRM 2103	Wildland Fire Mngmt	NRM 4812	Wildlife Management	PRM 3262	Adv SCUBA/SLAM
NRM 2112	Adv Firefighting Methods	PRM 2102	Found of Parks and Rec	PRM 3211	Outdoor Ed/Adv Program
NRM 2122	Ignition Operations	PRM 3113	Sail, Canoe, Hiking & Climb	PRM 3432	Ropes Course Facilitation
NRM 2132	Fireline Leadership & ICS	PRM 3122	Wilderness First Aid	PRM 3441	High Angle Rescue
NRM 4172	Natural Resource Law	PRM 3132	Wilderness Survival	PRM 3452	Advanced Ropes
NRM 4201	Park Ranger	PRM 3133	Emergency Response	PRM 3663	Recreation Management
NRM 4211	Game and Fish Law	PRM 3142	Adv Wilderness Survival	PRM 3702	Rec Areas and Fac Manage
NRM 4773	Nat Res Rec Mngmt	PRM 3152	SCUBA	PRM 4011	Seminar in PRM
NRM 4802	Wildland Fire Ecology	PRM 3161	Lifeguarding	PRM 4012	Seminar in PRM

PRM 4013	Seminar in PRM	PRM 4163	Community Recreation	PRM 4211	Game and Fish Law
PRM 4014	Seminar in PRM	PRM 4172	Natural Resource Law	PRM 4221	Small Craft Safety
PRM 4113	Risk Mgmt in Rec	PRM 4201	Park Ranger	PRM 4663	Outdoor Recreation

PHYSICS

ASTRO 4011	Sem in Astronomy	PHY 2145	General Physics I	PHY 3544	Digital Electronics
ASTRO 4012	Sem in Astronomy	PHY 2145L	General Physics I Lab	PHY 3544L	Digital Electronic Lab
ASTRO 4013	Sem in Astronomy	PHY 2155	General Physics II	PHY 3563	Thermodynamics
ASTRO 4014	Sem in Astronomy	PHY 2155L	Gen Physics II Lab	PHY 3573	Heat Transfer
GEOL 4011	Seminar in Geology	PHY 2203	Rigid Body Mechanics	PHY 3583	Meth Theoretical Phys
GEOL 4012	Seminar in Geology	PHY 2213	Strength of Materials	PHY 3603	Mechanics I
GEOL 4013	Seminar in Geology	PHY 3013	Materials Science	PHY 3603L	Mechanics I Lab
GEOL 4014	Seminar in Geology	PHY 3112	Experimental Techniques	PHY 3633	Fluid Mechanics
PHY 1044	Basic Physics I	PHY 3243	Lin Circuit Analysis	PHY 4011	Seminar in Physics
PHY 1044L	Basic Physics I Lab	PHY 3303	History of Physics	PHY 4012	Seminar in Physics
PHY 1054	Basic Physics II	PHY 3311	Modern Phy/Engnrs Lab	PHY 4013	Seminar in Physics
PHY 1054L	Basic Physics II Lab	PHY 3403	Modern Physics/Enginr	PHY 4014	Seminar in Physics
PHY 1064	General Physics	PHY 3413	Analog Electronics	PHY 4644	Elect/Magnetism I
PHY 1072	Intro Electronics	PHY 3413L	Analog Electronics Lab	PHY 4644L	Elect/Magnetism I Lab
PHY 1072L	Intro Electronics Lab	PHY 3424	Optics	PHY 4663	Elect/Magnetism II
PHY 2011	Seminar in Physics	PHY 3424L	Optics Lab	PHY 4723	Quantum Mechanics
PHY 2012	Seminar in Physics	PHY 3501	Physics Seminar (Topic)	PHY 4743	Solid State Physics
PHY 2013	Seminar in Physics	PHY 3523	Solid-State/Nucl Phys	PHY 4763	Nuclear Physics
PHY 2014	Seminar in Physics	PHY 3523L	Solid-State/Nucl Lab		

POLITICAL SCIENCE

POLSC 2303	Comparative Politics	POLSC 3323	Legislative Exec Relations	POLSC 4403	Public Policy Formation
POLSC 2623	Criminal Law & Procedure	POLSC 3343	Women & Politics	POLSC 4613	Civil Rights/Liberties
POLSC 2803	The Judicial Process	POLSC 3363	Public Adm Theory/Prac	POLSC 4903	DR: Reading in Political Sci
POLSC 3003	Federal Constitution	POLSC 4013	Seminar in Political Sci	POLSC 4933	Government Internship
POLSC 3033	Political Parties	POLSC 4233	Urban Politics & Elections		
POLSC 3113	Political Theory	POLSC 4253	International Law		
POLSC 3163	Prin International Rela	POLSC 4303	International Organ		

PSYCHOLOGY

PSYCH 2011	Seminar in Psychology	PSYCH 3224	Research Methods	PSYCH 4203	Psychology of Women
PSYCH 2012	Seminar in Psychology	PSYCH 3224L	Research Methods Lab	PSYCH 4223	Media & Mental Illness
PSYCH 2013	Seminar in Psychology	PSYCH 3233	Learning and Memory	PSYCH 4313	Intro Clinical Psych
PSYCH 2014	Seminar in Psychology	PSYCH 3243	Cross-Cultural Psych	PSYCH 4323	Forensic Psychology
PSYCH 2423	Social Psychology	PSYCH 3253	Psychological Tests	PSYCH 4333	Physiological Psych
PSYCH 2433	Psychological Statist	PSYCH 3323	Abnormal Psychology	PSYCH 4371	Psychological Research
PSYCH 3011	Seminar in Psychology	PSYCH 3333	Behavior Management	PSYCH 4372	Psychological Research
PSYCH 3012	Seminar in Psychology	PSYCH 3363	Psych of Personality	PSYCH 4373	Psychological Research
PSYCH 3013	Seminar in Psychology	PSYCH 4011	Sem in Psych (Topic)	PSYCH 4374	Psychological Research
PSYCH 3014	Seminar in Psychology	PSYCH 4012	Sem in Psychology	PSYCH 4391	Adv Seminar in Psych
PSYCH 3201	Contemp Prob in Psych	PSYCH 4013	Sem in Psychology	PSYCH 4392	Adv Seminar in Psych
PSYCH 3202	Contemp Prob in Psych	PSYCH 4014	Sem in Psychology	PSYCH 4393	Adv Seminar in Psych
PSYCH 3203	Contemp Prob in Psych	PSYCH 4113	Iss in Chem Dep Trtmt	PSYCH 4394	Adv Seminar in Psych
PSYCH 3204	Contemp Prob in Psych	PSYCH 4123	Theor & Princ of Psych	PSYCH 4533	Language Development
PSYCH 3213	Developmental Psych	PSYCH 4133	Psychology of Sports		

SPANISH

SPAN 1054	Elementary Spanish I	SPAN 2353	Spanish Conversation	SPAN 4003	Ind Study in Spanish
SPAN 1154	Elementary Spanish II	SPAN 3013	Span Law Enforcemnt	SPAN 4004	Ind Study in Spanish
SPAN 2001	Ind Study Spanish	SPAN 3023	Span Healthcare Prof	SPAN 4010	Seminar in Spanish
SPAN 2002	Ind Study Spanish	SPAN 3153	Spanish Lit To 1800	SPAN 4011	Seminar in Spanish
SPAN 2003	Ind Study Spanish	SPAN 3253	Span Lit Since 1800	SPAN 4012	Seminar in Spanish
SPAN 2004	Ind Study Spanish	SPAN 3353	Spanish-American Lit	SPAN 4013	Seminar in Spanish
SPAN 2011	Seminar in Spanish	SPAN 3553	Hispanic Life/Culture	SPAN 4014	Seminar in Spanish
SPAN 2012	Seminar in Spanish	SPAN 3653	Intern Spanish Convers	SPAN 4043	Adv Span Conversa
SPAN 2013	Seminar in Spanish	SPAN 3753	Readings in Spanish	SPAN 4053	Adv Sp Comp & Grmr
SPAN 2014	Seminar in Spanish	SPAN 3853	Spanish Composition	SPAN 4373	Hispanic Literature
SPAN 2053	Inter Spanish I	SPAN 4001	Ind Study in Spanish	SPAN 4473	Hisp Amer Writers
SPAN 2153	Inter Spanish II	SPAN 4002	Ind Study in Spanish	SPAN 4554	Spanish Study Abroad

TECHNOLOGY

MFET 3183	Statics and Strengths	TECH 2413	Non-Metal Mat & Proc	TECH 3413	Manufacturing Process
MFET 3433	Automation/Robotics	TECH 2513	Fabrication Process I	TECH 3463	Manufacturing Oper I
MFET 4443	Material Hand/Fac Plan	TECH 2713	Fundamental Electronics	TECH 3513	Material Test/Analysis
MFET 4753	Senior Capstone	TECH 2813	Digital Devices	TECH 3523	Fabrication Process II
TECH 1101	Intro to Technology	TECH 3113	Industrial Safety	TECH 3613	Power Systems
TECH 1203	Engineering Drafting	TECH 3143	Tech Presentations	TECH 3823	Industrial Electronics
TECH 1223	Technology & Society	TECH 3173	Environmental Regulations	TECH 3833	Commun Electronics
TECH 1713	Basic Electrical Science	TECH 3263	Machine Drafting I	TECH 3843	Telecommunications

TECH 4003 Ind Study Technology
TECH 4123 Industrial Supervision
TECH 4223 Electronics Capstone
TECH 4243 3D CAD - Solidworks
TECH 4373 Economic Decision Anal

TECH 4433 Quality Control
TECH 4454 Computer Aided Manufac
TECH 4493 Manufacturing Oper II
TECH 4514 Machine Tool Processes
TECH 4813 Networks & Distrib Contr

TECH 4833 Microproc & Embed Contr
TECH 4843 Industrial Controls
TECH 4903 Manuf Enterprises

DEPARTMENT OF LANGUAGE AND LITERATURE COLLEGE OF ARTS AND SCIENCES

FACULTY

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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
B.A. English
Literature Emphasis
Writing Emphasis
B.A. Spanish

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 HOURSMin. 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. History3

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

Science7-8

*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
a higher numbered chemistry or physics course

Humanities.....6

HUM 1103 Introduction to Humanities
AND
LIT 2413 Introduction to Literature

Human, Cultural, & Social Diversity3-4

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

English Major

Writing Option

Required Courses20

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 Courses29

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
<i>LIT 4463 Children's Literature will not count for credit in the English major.</i>	
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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1043 or 1053 U.S. History (3) 1113 English Comp I (3) 2413 Intro to Literature (3) Computer Proficiency (0-3) OR Area 1 GE elective (3) Mathematics (3) Total (16)	1103 Amer Gov't Politics (3) 1213 English Comp II (3) 3473 Creat Wrtng Fiction I (3) GE Elective from Human, Cultural and Social Diversity (3-4) Life science GE Option (with or without lab) (3-4) Total (15-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3483 Creative Writing Poetry I (3) Area 2 GE Elective (3) Introduction to Humanities (3) World Language I (3-4) Writing Elective (3) Total (15-16)	3603 English Grammar (3) Guided LIT elective (3) Minor Hours (3) Physical Science GE Option (with or without lab) (3-4) Writing Elective (3) Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3663 Creative Nonfiction I (3) Free ENGL/LIT Elective (3) GE Elective (3) Minor Hours (3) Writing Elective (3) Total (15)	3113 Contemp. Fiction (3) Advanced ENGL Elective (3) Free ENGL/LIT Elective (3) Minor Hours (6) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Advanced ENGL Elective (3) Guided Literature. Elective (3) Minor Hours (6) Upper level LIT/ENGL Elec.(3) Total (15)	3123 Contemp. Poetry (3) English Senior Capstone (2) Free Elective (3) Minor Hours (3) Sr-level LIT Elective (3) Total (14)

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

ENGLISH: Literature Emphasis (Code 112)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1043 or 1053 U.S. History (3) 1113 English Comp I (3) 2413 Intro to Literature (3) Computer Proficiency (0-3) OR Area 1 GE Elective (3) Mathematics (3) Total (16)	1103 Amer Gov't Politics (3) 1213 English Comp II (3) 3473 Creative Writing Fiction I (3) GE Elective from Human, Cultural and Social Diversity (3-4) Life science GE Option (with or without lab) (3-4) Total (15-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3023 Literature Theory/Prac (3) Area 2 GE Elective (3) Introduction to Humanities (3) Physical Science (with or without Lab) (3-4) World Lang I (3-4) Total (15-17)	3013 Writing Theory/Prac (3) 3323 Mod Voices in Amer Lit (3) Free ENGL/LIT Elective (3) Guided Writing Elective (3) Minor Hours (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4553 Issues in Amer Lit (3) 4763 Brit. Lit to 1800 (3) Guided LIT Electives (3) Minor Hours (3) Upper level ENGL/LIT Elective (3) Total (15)	3603 English Grammar (3) 4123 Brit Lit 1795-1950 (3) Free ENGL or LIT Elective (6) Minor Hours (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Minor Hours (6) Sr-level ENGL/LIT Elective (3) Upper level LIT Electives (3) World Lit Elective (3) Total (15)	4993 The Novel (3) Free Electives (3-6) Guided LIT Electives (3) English Senior Capstone (2) Minor Hours (3) Total (14-17)

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

BACHELOR OF ARTS SPANISH (Code No. 180)

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
a higher numbered chemistry or physics course

Humanities.....**6**

HUM 1103 Introduction to Humanities

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**

Spanish Major

Required Courses.....**39**

SPAN 1154 Elementary Spanish II
SPAN 2053 Intermediate Spanish I
SPAN 2153 Intermediate Spanish II
SPAN 3553 Hispanic Life & Culture
SPAN 3653 Intermediate Spanish Conversation
SPAN 3753 Readings in Spanish
SPAN 3853 Intermediate Spanish Comp. & Grammar
SPAN 4043 Advanced Spanish Conversation
SPAN 4053 Advanced Spanish Comp & Grammar
SPAN 4373 Hispanic Literature
SPAN 4473 Survey of Hispanic American Writers
SPAN 4554 Studies in Spanish Abroad or Internship
SPAN 4571 Senior Spanish Capstone

Guided Electives (Select one of the following)..... **3**

SPAN 4011-4 Seminar in Spanish
SPAN 4031-4 Independent Studies
SPAN 4923 Teachers Course in World Languages

Minor **18-24**

Free Electives to bring total to 120 **14-20**

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 (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework.....2.00
Minimum Grade Point Average in major.....2.00

Electives (including minor) to bring total to..... 120

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

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

SPANISH (Code 180)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1054 Elem Spanish I (4) 1113 English Comp I (3) 1103 Intro to Humanities (3) Computer Proficiency (0-3) OR Area 1 GE Elective (3) Mathematics (3) Total (17)	Life science GE Option (with or without lab) (3-4) 1103 Amer Gov't Politics (3) 1154 Elem Spanish II (4) 1213 English Comp II (3) Humanities GE option (3) Total (16-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 or 1053 U.S. History (3) 2053 Intermediate Spanish I (3) Area 1 GE Elective (3) Minor Hours (3) Physical Science (with or without Lab) (3-4) Total (15-16)	2153 Intermediate Spanish II (3) Area 2 GE Elective (3) Behav, Social, & Cultural Sci (3) Fine Arts & Humanities (3) Minor Hours (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3553 Hispanic Life & Culture (3) 3653 Intermediate Span Conv (3) Free Elective (3) Guided Spanish Electives (3) Minor Hours (3) Total (15)	3753 Readings in Spanish (3) 3853 Inter Span Comp/Gram (3) Free Electives (6) Minor Hours (3) Total 15

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4043 Adv Span Conversation (3) 4053 Adv Span Comp/Gram (3) 4373 Hispanic Literature (3) Free Elective (3) Minor Hours (3) Total (15)	4473 Hispanic Amer Writers (3) 4554 Span Abroad/Intrnshp (4) 4571 Senior Spanish Capstone (1) Free Elective (3) Minor Hours (3) Total (14)

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

DEPARTMENT OF MATHEMATICS

COLLEGE OF ARTS AND SCIENCES

FACULTY

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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

Majors:	B.S. Mathematics B.S.Ed. Mathematics Education
Minors:	Mathematics Statistics
Master:	M.Ed. Mathematics (See the Graduate Catalog for more information.)

The Mathematics Education degree program prepares the student to teach all currently offered junior high and senior high school mathematics courses. The Bachelor of Science in Mathematics degree allows the student to concurrently complete a minor, a double minor, or a second major. Careful selection of minors enables the mathematics degree holder to be well prepared for a wide variety of career options. The mathematics and statistics minors are excellent choices for any students, particularly those majoring in computer science, business or the sciences.

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/>

BACHELOR OF SCIENCE MATHEMATICS (Code No. 134)

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**

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
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**

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.

MATHEMATICS (Code 134)

Suggested Course Sequence*

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient (1) 1023 Comp Info Access (3) 1113 English Comp I (3) 1513 College Algebra (3) 1613 College Trigonometry (3) Gen Educ Crses (3)	1103 American Gov Politics (3) 1213 English Comp II (3) 1834 Calculus I (4) Courses toward minor** (3) Gen Educ Crses (3)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2834 Calculus II (4) Courses toward minor** (3-6) Gen Educ Crses (6-7)	3653 Linear Algebra (3) 3834 Calculus III (4) Courses toward minor** (3-6) Gen Educ Crses (3-6)
Total (13-17)	Total (13-19)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3113 Foundations in Math (3) Courses toward minor** (3-6) Gen Educ Crses(3-6) Math Elective (3)	4213 Differential Equations I (3) Courses toward minor** (3-6) Gen Educ Crses(3) Math Electives (3-6)
Total (12-18)	Total (12-18)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3533 Tech and Programming Math*** (3) 4653 Modern Algebra (3) Courses toward minor** (3-6) Gen Educ Crses(3)	4853 Advanced Calculus (3) Courses towards minor** (3-6) Gen Educ Crses (3) Math Elective (3)
Total (12-15)	Total (12-15)

* 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

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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
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 Music Building, and studios on the first floor of Oklahoma Hall.

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), Symphonic 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 outlined above 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
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)

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)

Electives in Music **6**

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

Electives in Music **6**

(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)

Electives in Music8

Elective Studies in Business (Code No. 146)

Required 37
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

TOTAL HOURS..... 120-121

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120-121

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 4900 Recital Attendance (0) General Education Course (2) Instrumental or Choral Ensemble (1) Principal Applied Area (2) Total (16)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 4261 Intro to Music Tech (1) 4900 Recital Attendance (0) Foreign Language (4) Instrumental or Choral Ensemble (1) Principal Applied Area (2) Total (15)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Course From List Below (2) Instrumental or Choral Ensemble (1) Music Electives (1) Principal Applied Area (2) Voice Class (1) Total (15)	3101 or 3151 Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) General Education Courses (4) Instrumental or Choral Ensemble (1) Principal Applied Area (2) Voice (1) Total (16)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4812 Advance Music Analysis (2) 4900 Recital Attendance (0) Course From List Below (2) General Education Course (6) Instrumental or Choral Ensemble (1) Music Elective (1) Principal Applied Area (2) Voice (1) Total (15)	3353 History of Music III (3) 4232 Arranging (2) 4900 Recital Attendance (0) Course From List Below (2) Instrumental or Choral Ensemble (1) Music Elective (2) Principal Applied Area (2) Voice (1) Total (13)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) Course From List Below (2) General Education Courses (9) Instrumental or Choral Ensemble (1) Music Electives (2) Principal Applied Area (2) Total (16)	4900 Recital Attendance (0) 4951 Senior Recital (1) Course From List Below (2) General Education Courses (6) Instrumental or Choral Ensemble (1) Music Electives (2) Principal Applied Area (2) Total (14)

* 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.

2861 Accompanying (4 Hrs) 2901 Piano Ensemb & Accomp 4352 Piano Pedagogy 4552 Piano Literature 4261 Intro to Music Tech

Bachelor of Music with Emphasis in MUSIC PERFORMANCE VOICE (Code 142)
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) Total (15)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) General Education Courses (3) Total (14)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2831 Class Piano III (1) 2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) General Education Course (3) Total (15)	2841 Class Piano IV (1) 3151 Choral Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) General Education Courses (5) Total (17)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4812 Advanced Music Analysis (2) 4900 Recital Attendance (0) Applied Piano (1) Applied Voice (2) Choral Ensemble (1) Course From List Below (2) General Education Course (6) Music Elective (2) Total (16)	3353 History of Music III (3) 4232 Arranging (2) 4900 Recital Attendance (0) Applied Piano (1) Applied Voice (2) Choral Ensemble (1) Course From List Below (2) General Education Courses (2) Music Elective (2) Total (15)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) Foreign Language (4) General Education Courses (6) Music Electives (2) Total (15)	4900 Recital Attendance (0) 4951 Senior Recital (1) 4900 Recital Attendance (0) Applied Voice (2) Choral Ensemble (1) General Education Courses (6) Music Electives (3) Total (13)

* 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.

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Applied Principal Instrument (2) Instrumental Ensemble (1) Total (15)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Applied Principal Instrument (2) General Education Courses (3) Instrumental Ensemble (1) Total (14)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2101 Voice Class (1) 2831 Class Piano III (1) 2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Applied Principal Instrument (2) Instrumental Ensemble (1) Secondary Applied (1) Secondary Instrument Class (1) Total (15)	2841 Class Piano IV (1) 3101 Instrumental Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) Applied Principal Instrument (2) General Education Courses (4) Instrumental Ensemble (1) Total (16)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4222 Instrumental Pedagogy (2) 4812 Advanced Music Analysis (2) 4900 Recital Attendance (0) Instrumental Ensemble (1) Applied Principal Instrument (2) General Education Course (6) Instrumental Ensemble (1) Music Electives (2) Total (16)	2101 Voice Class (1) 3353 History of Music III (3) 4232 Arranging (2) 4900 Recital Attendance (0) Instrumental Ensemble (1) Applied Principal Instrument (2) General Education Courses (2) Music Electives (2) Secondary Instrument Class (2) Total (15)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4261 Introduction to Music Tech (1) 4900 Recital Attendance (0) Applied Principal Instrument (2) General Education Courses (10) Instrumental Ensemble (1) Music Electives (1) Total (15)	4900 Recital Attendance (0) 4951 Senior Recital (1) Applied Principal Instrument (2) Foreign Language (4) General Education Courses (6) Instrumental Ensemble (1) Total (14)

* 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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Principal Applied (1)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Instrument Class (1) General Education Courses (3) Principal Applied (1)
Total (14)	Total (14)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2831 Class Piano III (1) 2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Courses From List Below (2) General Education Courses (3) Instrument Class (1) Principal Applied (1)	2841 Class Piano IV (1) 3101 Instrumental OR 3151 Choral Conduct (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) General Education Courses (4) Principal Applied (1)
Total (17)	Total (15)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4812 Advanced Music Analysis (2) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Courses From List Below (6) General Education Courses (6) Principal Applied (1)	3353 History of Music III (3) 4232 Arranging (2) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Courses From List Below (6) General Education Courses (2) Principal Applied (1)
Total (16)	Total (15)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4402 Band Methods OR 4452 Vocal Methods (2) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) Courses From List Below (3) General Education Courses (8) Instrument Class (1) Principal Applied (1)	4602 Instrumental Lit. OR 4502 Choral List. (2) 4950 Senior Recital (0) 4900 Recital Attendance (0) Choral or Instrumental Ensemble (1) General Education Courses (6) Internship (3) Principal Applied (1)
Total (16)	Total (13)

* 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.

MUSIC 4261 Intro to Music Technology

ACCTG 2213 Prin of Financial Acctg

MRKTG 3443 Mrktg/Cons Behavior

MRKTG 3143 Prin of Marketing

MRKTG 3243 Promotional Strategy

ENTRP 3113 Introduction to MIS

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
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 II: 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
MUSIC Elective in Advanced Elem. Methods, 2 hours (Choose from MUSIC 4122 Intro. To Orff or MUSIC 4302 Elem. & Sec. General Music)
MUSIC 4900 Recital Attend, (Enroll each semester)
Applied Music (one orchestral instr. and/or piano)
Principal Area, 6 hours (Principal Area Proficiency Exams)
Secondary Area, 3 hours
MUSIC 1611 Percussion Class
MUSIC 4011 Keyboard Improv Music Therapists
Applied Guitar (In addition to 1911), 1 hour
MT Guitar Proficiency Exam
MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II
MUSIC 2831 Class Piano III
MUSIC 2841 Class Piano IV
MUSIC 4011 Keyboard Improvisation
Applied Piano Lesson (1 credit)
Music Therapy Piano Proficiency Exams I & II
Voice, 2 hours (two semesters) & Vocal Prof I
Vocal Elective, 2 hours (1 must be an ensemble)
Instrumental Ensemble(s), 8 hours (enroll each sem.)
(At least 1 hour of Music 4041 Perc. 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
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 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
(Choosing from MUSIC 4122 Intro. To Orff **OR**
MUSIC 4302 Elem. & Sec. General Music)
MUSIC 4900 Recital Attendance (Enroll each semester)
Applied Music (voice or piano)
Principal Area, 8 hours (Enroll each semester)
MUSIC 4011 Keyboard Improv for Music Therapists
Applied Music (voice or piano)
Secondary Area, 6 hours (If voice is principal area, piano must be the secondary area. If piano is the principal area, voice or orchestral instruments may be the secondary area. Voice Proficiency Exams I and II are required.)
Principal Area Proficiency Exams
Piano (if piano is secondary area) 4 hours
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) 2 hours
Music Therapy Piano Proficiency Exams I & II
Guitar (In addition to 1911), 1 hr
Guitar Proficiency Exam
Choral Ensembles, 8 hours (Enroll each semester)
MUSIC 1611 Percussion Class
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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1172 Intro to Music Therapy (2) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Applied Principal Instrument (1) Choral Ensemble (1) Instrumental Ensemble (1)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Applied Principal Instrument (1) Courses From List Below (4) General Education Courses (3) Instrumental Ensemble (1)
Total (17)	Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2101 Voice Class (1) 2831 Class Piano III (1) 2981 Principles of Conducting (1) 3171 Intro to Movement (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 4900 Recital Attendance (0) Applied Principle Instrument (1) Courses From List Below (4) General Education Courses (3) Instrumental Ensemble (1)	2841 Class Piano IV (1) 3101 Instrumental Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 4900 Recital Attendance (0) Advanced Elementary Methods CI (2) Applied Principle Instrument (1) Applied Voice (1) Courses From List Below (4) General Education Courses (2) Instrumental Ensemble (1)
Total (17)	Total (17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1611 Percussion Class (1) 1911 Beginning Guitar (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Applied Principle Instrument (1) Choral Ensemble (1) Courses from List Below (4) General Education Courses (3) Instrumental Ensemble (1) Voice Elective (1)	3403 History of Music II (3) 4011 Keyboard Improvisation (1) 4232 Arranging (2) 4900 Recital Attendance (0) Applied Guitar (1) Applied Principle Instrument (1) Applied Voice (1) Courses From List Below (4) General Education Courses (3) Instrumental Ensemble (1)
Total (16)	Total (17)

Continued on next page

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) Applied Principle Instrument (1) Courses From List Below (8) General Education Courses (6) Instrumental Ensemble (1) Intro to Music Tech (1) Total (17)	4900 Recital Attendance (0) 4950 Senior Research Project or Recital (0) Courses From List Below (7) General Education Courses (7) Instrumental Ensemble (1) Total (15)

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1172 Intro to Music Therapy (2) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Applied Principal Instrument (1) Choral Ensemble (1)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Applied Principal (1) Choral Ensemble (1) Courses From List Below (4) General Education Courses (3) Secondary Applied (1)
Total (16)	Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2831 Class Piano III (1) 2981 Principles of Conducting (1) 3171 Intro to Movement (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 4900 Recital Attendance (0) Applied Principle (1) Choral Ensemble (1) Secondary Applied (1) Courses From List Below (4) General Education Courses (3)	1611 Percussion Class (1) 2841 Class Piano IV (1) 3101 Instrumental Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 4900 Recital Attendance (0) Advanced Elementary Methods CI (2) Applied Principle (1) Choral Ensemble (1) Courses From List Below (4) General Education Courses (2) Secondary Applied (1)
Total (17)	Total (18)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1911 Beginning Guitar (1) 3171 Intro to Movement (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Applied Principle (1) Choral Ensemble (1) Courses from List Below (4) General Education Courses (3) Percussion Ensemble (1) Secondary Applied (1)	3403 History of Music II (3) 4011 Keyboard Improvisation (1) 4232 Arranging (2) 4900 Recital Attendance (0) Applied Guitar (1) Applied Principle (1) Choral Ensemble (1) Courses From List Below (4) General Education Courses (3) Secondary Applied (1)
Total (16)	Total (17)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) Applied Principle (1) Choral Ensemble (1) Courses From List Below (8) General Education Courses (6) Intro to Music Tech (1)	4900 Recital Attendance (0) 4950 Senior Research Project or Recital (0) Choral Ensemble (1) Courses From List Below (7) General Education Courses (7)
Total (17)	Total (15)

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

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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

Minors: American Indian Studies
Criminal Justice
Economics
History
Political Science
Pre-Law
International Studies

Masters: M.Ed. Social Sciences
(See Graduate Catalog for more info.)

Pre-Professional: Law

ADVISORS AND PROGRAMS

Criminal Justice

D. Astle
H. Kurtz

History

B. Bruce
L. Endicott
F. Gates
J. Hayden
D. Hertznel
S. Kodumthara

Political Science

D. Brown
T. Brown

History Education

F. Gates

MINOR PROGRAMS

American Indian Studies

S. Kodumthara

Pre-Law

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 web site
<http://www.swosu.edu/socsci/>

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 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
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**

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:**21**

Methods Courses (6 hours)

SOCSC 3853 Statistics for Social Science
SOCSC 3863 Fundamentals of Research

Criminal Justice (15 hours)

CRMJS 1113 Intro to Criminal Justice
CRMJS 3163 Sociology of Deviant & Crim Behavior
CRMJS 3243 Comp Criminal Justice System
CRMJS 4103 Juvenile Justice
CRMJS 4153 U.S. Corrections

ELECTIVES:**15**

Select 6 hours from:

CRMJS 1223 Intro to Law Enforcement
CRMJS 2503 Criminal Justice Administration
CRMJS 4143 Critical Issues in Criminal Justice
POLSC 2623 Criminal Law & Procedure
POLSC 2803 Judicial Process

Select 6 hours from:

SOCIO 3043 Racial & Cultural Minorities
SOCIO 4033 Advanced Analysis of Social Problems
CRMJS 3353 The Criminal Mind
CRMJS 4333 Victimology

Select 3 hours from:

CRMJS 3803 Privatization of Criminal Justice
CRMJS 4913 Internship in Criminal Justice
(For juniors or seniors with prior approval)

Minor **18-24**

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
(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

CRIMINAL JUSTICE (Code 107)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Comp I (3) General Education Courses (10)	1003 Intro to Sociology (3) 1213 English Comp II (3) General Education Course (9)
Total (14)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1113 Intro to Criminal Justice (3) General Education Courses (10) Minor (3)	Criminal Justice (3) Electives (5) General Education Courses (2) Minor (3)
Total (16)	Total (13)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Criminal Justice (6) Electives (6) Minor (3)	Criminal Justice (9) Electives (5) Minor (3)
Total (15)	Total (17)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Criminal Justice (9) Electives (6)	Criminal Justice (6) Elective (3) Minor (6)
Total (15)	Total (15)

*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 HOURSMin. 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. History3

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

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 Diversity3-4

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 SWOSU8

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 major2.00

HISTORY (Code 120)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1113 English Comp I (3) General Education Courses (11)	1213 English Comp II (3) General Education Courses (13)
Total (15)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2263 Intro to Macroeconomics (3) 2603 Writing History (3) Elective (3) General Education Courses (7)	1103 World Cultural Geography (3) American/World History (9) Minor (3)
Total (16)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
American/World History (9) Elective (3) Minor (3)	4093 Historical Research & Writing (3) American/World History (6) Elective (3) Minor (3)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
American/World History (3) Electives (4) Minor (6)	American/World History (3) Electives (4) Minor (6)
Total (13)	Total (13)

*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 HOURSMin. 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. History3

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
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 Diversity3-4

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

Political Science Major

Required Courses36

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: Students will choose **two** concentrations and successfully complete at least two courses.

Public Law Concentration:

POLSC 2623 Criminal Law & Procedures
POLSC 4253 International Law
POLSC 4613 Civil Rights & Liberties

International Relations Concentration:

POLSC 3163 Prin. 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 SWOSU8
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

POLITICAL SCIENCE (Code 156)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1113 English Comp I (3) General Education Courses (10)	1213 English Comp II (3) 2303 Comparative Politics (3) General Education Courses (9)
Total (14)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
Electives (4) General Education Courses (6) Political Science Courses (6)	2803 Judicial Process (3) Elective (3) Minor (3) Political Science Courses (6)
Total (16)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3003 Federal Constitution (3) 3853 Statistics for the Social Sciences (3) General Education Courses (6) Minor (3)	3323 Legislative-Executive Relation (3) 3864 Fundamentals of Research (3) Elective (3) General Education Course (3) Minor (3)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3113 Political Theory (3) Electives (6) Minor (6)	3033 Political Parties (3) Electives (9) Minor (3)
Total (15)	Total (15)

*First time entering Freshmen need to take 1001 Freshman Orientation

ASSOCIATE IN SCIENCE AMERICAN INDIAN STUDIES (Code No. W45)

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
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**

Select one course.

CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)

Computer Proficiency **3**

COMSC 1023 Computer & Info Access

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

CATC 1413 **American Indian Belief Systems**
CATC 2133 **Tribal Government I**

American Indian Studies

Required Courses **12**

CATC 1111 Intro to American Indian Studies
CATC 1402 Cheyenne and Arapaho Constitution
CATC 1553 Literature of the American Indian
CATC 2203 American Indians Today
CATC 2603 Cheyenne and Arapaho History

Elective Courses **9**

Select from the following:

ACCTG 1123 Introduction to Accounting
ACCTG 2213 Principles of Accounting I
CATC 1001-4 Individual Study
CATC 1011-4 Seminar Topic
CATC 1214 Cheyenne Language II OR
CATC 1264 Arapaho Language II
CATC 1563 Music of the American Indian
CATC 2103 Art History of the Plains Indian
CATC 2001-4 Individual Study
CATC 2011-4 Seminar Topic
CATC 2423 Tribal Economics
ENTRP 1123 Introduction to Business

Total Hours **61**

ASSOCIATE IN SCIENCE CATC GENERAL STUDIES (Code No. W46)

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL GENERAL EDUCATION HOURSMin. 40

REQUIRED CORE COURSES31-35

Written Communication6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

Select one course.

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

U. S. History3

Select one course.

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

American Government3

POLSC 1103 American Government & Politics

Science7-8

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

Life Science3-4

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

Physical Science3-4

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
a higher numbered chemistry or physics course

Humanities6

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 Diversity4

Select one course.

CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)

Computer Proficiency3

COMSC 1023 Computer & Info Access

GE electives to total 40

CATC General Studies

Required Courses 9

CATC 1413 American Indian Belief Systems
CATC 1553 Literature of the American Indian
CATC 2603 Cheyenne and Arapaho History

Elective Courses to complete degree9-11

TOTAL HOURS60

ASSOCIATE IN SCIENCE TRIBAL ADMINISTRATION (Code No. W94)

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
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.

CATC 1204 Cheyenne Language I (or higher number)
CATC 1254 Arapaho Language I (or higher number)

Computer Proficiency **0-3**

COMSC 1023 Computer & Info Access

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

CATC 1413 Am Indian Belief Systems
CATC 2133 Tribal Government I

Tribal Administration

Required Courses **11**

ACCTG 2213 Principles of Financial Accounting
CATC 2062 Internship
CATC 2413 Indian Self-Determination Contract
Administration I
CATC 2603 Cheyenne and Arapaho History

Elective Courses **9**

Select from the following:

ACCTG 2313 Principles of Managerial Accounting
CATC 1011-3 Seminar in Tribal Administration
CATC 2001-3 Ind Study in Tribal Administration
CATC 2103 Budget Operations
CATC 2123 Intro to Tribal Administration
CATC 2233 Tribal Government II
CATC 2313 Indian Self-Determination and Education
Assistance Act, amended 1994
CATC 2513 Indian Self-Determination Contract
Administration II
CATC 2523 OMB Circulars (Common Laws)
ENTRP 2253 Business Communications

Total Hours **60**

COLLEGE OF PHARMACY

David A. Ralph, Dean

Degree Offered:

Doctor of Pharmacy (Pharm.D.)

COLLEGE OF PHARMACY

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.

MISSION, VISION, AND VALUES

MISSION

The mission of the SWOSU College of Pharmacy is to graduate exceptional pharmacy practitioners who, as part of a healthcare team, shall provide quality care and service to patients and communities while exhibiting a lifelong commitment to personal and professional development.

VISION

The College of Pharmacy envisions the fulfillment of its mission by providing a dynamic educational environment in which students develop the personal, intellectual, and leadership skills and abilities necessary to succeed in the profession of pharmacy. The College of Pharmacy must maintain faculty committed to excellence in teaching, service, and research/scholarly activity who serve as role models for our students, communities, and the profession.

VALUES

- Fostering *professionalism* and *integrity* by cultivating a sense of personal and institutional responsibility and accountability.
- Exhibiting *excellence* and *innovation* in teaching, service, and research/scholarly activity.
- Expressing 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 health care questions, and the pharmacist is likely to be the last health care team member to consult with patients about their drug treatment. Today's pharmacist not only is responsible for the dispensing of prescriptions but also provides information and drug-related primary care.

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 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 nonprescription 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. Suspended 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.

READMISSION AFTER PHARMACY SUSPENSION:

15. 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:

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1023 Computers & Info Access (3) 1043 or 1053 American History (3) 1113 English Composition I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 2823 Applied Calculus (3) Total (17)	1003 General Psychology (3) 1054 Principles of Biology w/Lab (4) 1103 American Government & Politics (3) 1213 English Composition II (3) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1033 World History OR 1103 World Cultural Geography (3) 1313 Introduction to Public Speaking (3) 3013 Organic Chemistry I (3) 3111 Organic Chemistry I Lab (1) 4355 Microbiology w/Lab (5) Total (15)	1063 General Physics (3) 2263 Introduction to Macroeconomics (3) 3704 Human Anatomy w/Lab (4) 4021 Organic Chemistry II Lab (1) 4113 Organic Chemistry II (3) HUM Select one course from the following: ART - 1223 Art Survey (3) LIT - 2413 Introduction to Literature (3) MUSIC - 1013 Introduction to Music (3) PHILO - 1453 Introduction to Philosophy (3) Total (17)

**Doctor of Pharmacy (Pharm.D.)
College of Pharmacy
PROFESSIONAL (Code 450)
Suggested Course Sequence**

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
3001 Introduction to Pharmacy (1) 3012 Pharmacy Calculations (2) 3023 Pharmaceutics I (3) 3311 Pharm. Care Lab I (1) 3614 Physiology (4) 3813 Community Pharmacy (3) 4124 Biochemistry (4) Total (18)	3010 Pharmacy Seminar I (0) 3123 Pharmaceutics II (3) 3321 Pharm. Care Lab II (1) 3405 Fundamentals of Drug Action (5) 3823 Health & Biostatistics (3) 4213 Immunology (3) Total (15)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
3213 IPPE – Community (3) 4010 Pharmacy Seminar II (0) 4142 Health-Systems Pharmacy (2) 4302 Drug Information (2) 4331 Pharm. Care Lab III (1) 4332 Basic Pharmacokinetics (2) 4512 Medicinal Chemistry I (2) 4612 Pathophysiology I (2) 4634 Pharmacology I (4) Total (18)	4010 Pharmacy Seminar II (0) 4323 Pharmacotherapy I (3) 4341 Pharm. Care Lab IV (1) 4522 Medicinal Chemistry II (2) 4622 Pathophysiology II (2) 4644 Pharmacology II (4) 4712 Health Issues I (2) Professional Elective (2) Total (16)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4223 IPPE – Institutional (3) 5010 Pharmacy Seminar III (0) 5054 Nonprescription Product Therapeutics (4) 5204 Pharmacotherapy II (4) 5301 Clinical Pharmacokinetics (1) 5351 Pharm. Care Lab V (1) 5812 Health Issues II (2) 5853 Pharmacy Management & Marketing (3) Professional Elective (2) Total (20)	5010 Pharmacy Seminar III (0) 5234 Pharmacotherapy III (4) 5361 Pharm. Care Lab VI (1) 5753 Toxicology (3) 5822 Health Issues III (2) 5823 Pharmacy Administration (3) 5844 Jurisprudence (4) Total (17)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
5914 APPE – Community A (4) 5944 APPE – Selective A (4) 5954 APPE – Medicine A (4) 5964 APPE – Medicine B (4) Total (16)	5924 APPE – Community B (4) 5934 APPE – Institutional (4) 5974 APPE – Medicine C (4) 5984 APPE – Selective B (4) 5994 APPE – Ambulatory Care (4) Total (20)

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, Interim Dean

SCHOOL OF BEHAVIORAL

SCIENCES AND EDUCATION.....Dr. Chad Kinder, 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

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, Interim Dean
Dr. Chad Kinder, 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/>

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Tracy Henry.....	HEC 118 B.....	tracy.henry@swosu.edu	(580) 774-3197
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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.
11. Completion of Criminal History Disclosure Statement.
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 student teaching experience).

A student must meet all requirements and apply for admission to the professional semester prior to the beginning of that semester. This application may be obtained in the Office of the Coordinator of Field Experiences.

Admission to the professional semester is achieved by meeting the following qualifications:

1. Apply by completing the Application for the Professional Semester and Student Teaching Experience application. This form is available from the Coordinator of Field Experiences and must be signed by the student's advisor and specified department chairman.
2. Currently be a student in good standing and admitted to the Department of Education.
3. Completion of the pre-professional sequence in the Department of Education.
4. **Completion of at least three-quarters of the major, including the methods course in the major (Secondary only).**
5. **Achieve an overall grade point average of not less than 2.50 in all work attempted.**
6. Completion of the Level I, Level II and Level III Portfolio. (Information on portfolios is available in the office of Student Teaching and Field Experiences.).
7. Three requests for student teaching placement that do not include sites where the student has graduated or has relatives on the staff at the school. Proximity of the requested site to the University will be a principal consideration.
8. The student must meet the requirements of the cooperating school and SWOSU. Each student teacher is required to purchase a Student Teacher Notebook, which contains the requirements for student teaching, 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 licensing. All initial applications for teacher licensing are obtained from the Certification Analyst in the Department of Education after successful completion of the state examinations and are to be filled out during the last semester prior to receiving the bachelor's degree. The completed application is to be filed with the Certification Analyst who will forward it to the State Department of Education after the Teacher Education Program has been completed and the bachelor's degree awarded. The Certification Analyst must approve and sign all license and/or certification applications. The applicant must have the following:

1. Successfully completed the Oklahoma General Education Test (OGET); the Oklahoma Professional Teaching Examination (OPTE); and the Oklahoma Subject Area Tests (OSAT).
2. A grade point average of not less than 2.50 overall.
3. Completed the approved degree program in teacher education.
4. Demonstrated proficiency in a foreign language at the Novice High Level (contact the Chair's office for additional information).
5. Successfully complete a professional portfolio (Level IV.) (Contact the Office of the Coordinator of Field Experiences for additional information.)
6. To receive standard certification by the Oklahoma Commission for Teacher Preparation the applicant must:
 - a. hold the initial Teacher License.
 - b. successfully complete the Residency Program under the guidance of a three-member Residency Committee.
 - c. receive recommendations for State Certification by the Residency Committee.

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**

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
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) **to 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 3013 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 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 **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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1022 Comp/Info Access (2) 1113 English Comp I (3) 1123 Foundations I (3) Art History (as offered) (3) Gen Educ Courses (3) Total (15)	1133 Foundations II (3) 1213 English Comp II (3) 2413 Intro to Literature (3) 4253 Applied Design (3) Art History (as offered) (3) Gen Educ Courses (3) Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1003 Gen Psychology (3) 1143 Foundations III (3) 2113 Acrylic Tech (3) 3353 Clay Studio (3) Art History (as offered)(3) Elective (3) English Proficiency Exam** Total (18)	1004 Biological Conc (4) 1103 World Cult Geog (3) 2113 Foundations of Educ (3) 3132 Exceptional Child*** (2) 3413 Sculpture (3) Studio Elective (3) Total (18)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
2133 Intro to Graph Des (3) 3213 Develop Psych** (3) 3483 Printmaking (3) 4452 CMM Elem Art (2) Gen Educ Courses (4) Studio Elective (3) Total (18)	1033 World History (3) 1043 or 1053 US History (3) 1103 American Govt (3) 4553 Teachers Crse Art (3) Studio Elective (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media & Tech (3) 3653 Educational Psych (3) 4813 Educ Tests & Meas (3) 4823 Prin of Teaching (3) Studio Elective (3) Total (15)	4651 Senior Exhibit (1) Professional Semester (13) Total (14)

* 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

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.

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

4892 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 H&PE

KINES 4541 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

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

FOR INFORMATION CONTACT:

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Department of Kinesiology
Phone: (580) 774-3181
E-mail: vicki.hatton@swosu.edu

HPE EDUCATION (Code 709)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Composition I (3) 1133 Wellness Concepts (3) General Education Required Course (3) General Education Required Course (3) Total (13)	1003 General Psychology (3) 1213 English Composition II (3) 2212 First Aid (2) General Education Course (3) General Education Required Course (3) P. E. Activity (1) Total (15)
SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1313 Introduction to Public Speaking (3) 2222 Introduction to Kinesiology (2) General Education Course (3) General Education Required Course (3) Major Elective (3) P. E. Activity (1) English Proficiency Exam** Total (15)	1932 Techniques Applied to Gym, Fitness & Aquatics (2) 1942 Techniques Applied to Individual Sports (2) General Education Course (3) General Education Required Course (4) Major Elective (5) Total (16)
THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1952 Techniques Applied to Team Sports (2) 2113 Foundations of Education (3) 2502 Care & Prevention of Athletic Injury (2) 3132 Exceptional Children*** (2) 4234 Exercise Physiology OR 3443 Kinesiology & Anatomy (3-4) 4243 Therapeutic/Prescriptive Physical Education (3) Major Elective (2) Total (17-18)	3133 Teaching Health in Public School (3) 3213 Developmental Psychology*** (3) 3423 Media & Technology (3) 4234 Exercise Physiology OR 3443 Kinesiology & Anatomy (3-4) 4262 Motor Learning (2) Major Elective (2) Total (16-17)
FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3453 or 3653 Edu Psychology (3) 3553 M & M Elementary PE (3) 4541 Capstone (1) 4553 Teachers Course in H& PE (3) 4613 or 4813 Ed Test/Measures (3) 4833 Prin Teach Elementary OR 4823 Prin Teach Secondary (3) Total (16)	3321 Multi/Spec Pop (1) 4021 Contemporary Issues in Education (1) 4041 Classroom Management (1) 4765 Stud Teaching in Elem (5) 4965 Stud Teaching in Sec (5) Total (13)

* 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 MUSIC EDUCATION INSTRUMENTAL/GENERAL MUSIC (Code No. 738)

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
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 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 3101 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 degree136

† 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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Band** (1) Choral Ensemble (1) Principal Applied Instrument (1) Secondary Instrument Class (1) Total (16)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2101 Voice Class (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Band (1) Course from List Below (4) General Education Courses (3) Principal Applied Instrument (1) Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2831 Class Piano III (1) 2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Band (1) Course from List Below (2) General Education Course (3) Principal Applied Instrument (1) Secondary Instrument Class (1) English Proficiency Exam*** Total (17)	2113 Foundations of Education (3) 2841 Class Piano IV (1) 3101 Instrumental Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) Band (1) General Education Courses (3) Principal Applied Instrument (1) Secondary Instrument Class (1) Total (18)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4812 Advanced Music Analysis (2) 4463 Technology in Music Education (3) 4900 Recital Attendance (0) Band (1) Courses from List Below (5) General Education Courses (5) Principal Applied Instrument (1) Secondary Instrument Class (1) Total (18)	3553 History of Music III (3) 4232 Arranging (2) Band (1) Courses from List Below (5) General Education Courses (5) Principal Applied Instrument (1) Secondary Instrument Class (1) Total (18)

Continued on next page

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) 4950 Senior Recital (0) Band (1) Chamber Ensemble (1) Courses from List Below (5) General Education Courses (7) Principal Applied Instrument (1) Secondary Instrument Class (2) Total (17)	3321 Multicultural/Spec Pop (1) 4021 Contemporary Issues in Education (1) 4041 Classroom Management (1) 4765 Student Teaching Elementary School (5) 4965 Student Teaching Secondary School (5) Total (13)

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)	3653 Educational Psychology
4402 Band Methods (Fall/Odd Years)	3132 Exceptional Children****	4602 Instr Literature (Spring/Even Yrs)
4222 Instrum Pedagogy (Fall/Odd Years)	4823 Princ Tching Secondary	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
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)

For Voice Principals:

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

MUSIC EDUCATION (VOCAL/GENERAL) (Code 739)
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1103 Music and Culture (3) 1113 English Composition I (3) 1213 Music Theory I (3) 1221 Aural Skills I (1) 2811 Class Piano I (1) 4900 Recital Attendance (0) Choral Ensemble (1) Course from List Below (1) Instrument Class or Band (1) Principal Applied (1) Total (16)	1213 English Composition II (3) 1313 Music Theory II (3) 1321 Aural Skills II (1) 2101 Voice Class (1) 2821 Class Piano II (1) 4900 Recital Attendance (0) Choral Ensemble (1) Course from List Below (4) General Education Courses (3) Principal Applied (1) Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2831 Class Piano III (1) 2981 Principles of Conducting (1) 3253 Music Theory III (3) 3261 Aural Skills III (1) 3353 History of Music I (3) 4900 Recital Attendance (0) Choral Ensemble (1) Course from List Below (1) General Education Course (6) Principal Applied (1) Secondary Instrument Class or Band (1) English Proficiency Exam*** Total (19)	2113 Foundations of Education (3) 2841 Class Piano IV (1) 3151 Choral Conducting (1) 3303 Music Theory IV (3) 3311 Aural Skills IV (1) 3403 History of Music II (3) 4900 Recital Attendance (0) Choral Ensemble (1) General Education Course (4) Principal Applied (1) Total (18)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
4812 Advanced Music Analysis (2) 4463 Technology in Music Education (3) 4900 Recital Attendance (0) Choral Ensemble (1) Courses from List Below (3) General Education Courses (4) Secondary Applied (1) Principal Applied (2) Total (16)	3553 History of Music III (3) 4232 Arranging (2) 4900 Recital Attendance (0) Choral Ensemble (1) Courses from List Below (3) General Education Courses (5) Principal Applied (2) Secondary Applied (2) Total (18)

Continued on next page

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4900 Recital Attendance (0) Choral Ensemble (1) Course from List Below (6) General Education Courses (6) Principal Applied (2) Secondary Applied (2) Total (17)	3321 Multicultural (1) 4021 Contemporary Issues in Education (1) 4041 Classroom Management (1) 4765 Student Teaching Elementary School (5) 4965 Student Teaching Secondary School (5) Total (13)

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)	4452 Vocal Methods (Fall/Even Yrs)
4463 Technology in Music Educ	3213 Developmental Psychology***	3132 Exceptional Children***
4823 Princ Tchng Secondary	3653 Educational Psychology	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
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

Mild/Moderate Special Education Major

ADDITIONAL HOURS TO COMPLETE 4x12 REQUIREMENT:

Early childhood candidates are required to complete a total of 12 hours in each of the four content areas:

_____ **Communication Arts** (ENGL, LIT, COMM, PHILO)

_____ **Mathematics** (MATH) Suggested: MATH 1433, 1443, 2183

_____ **Science** (SCI, BIOL, ASTRO, GEOL, CHEM)

_____ **Social Sciences** (HIST, POLSC, GEOG, SOCIO, ECON, HUM)

Teacher candidates are expected to work closely with their faculty advisor to select courses that fulfill the 4x12 requirement. 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 3432 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/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 C or 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..... **125**

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1022 Comp & Info Access (2) 1113 English Comp I (3) 1313 Intro to Public Spk (3) xxx3 Social Science Course (3) xxx4 Science Crse (4) Total (16)	1003 Gen Psych (3) 1103 Amer Govt & Pol (3) 1213 English Comp II (3) xxx3 Math Course (3) xxx3 Comm Arts Course (3) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 or 1053 U. S. History (3) 2113 Found of Educ (3) 3423 Media & Tech (3) xxx3 Math Course (3) xxx4 Science Course (4) English Proficiency Exam** Total (16)	1004 Science Lab Course (4) 3213 Develop Psych*** (3) 3213 Found Mild/Moderate (3) 3423 Tch Reading I (3) xxx3 Social Science Course (3) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3432 Assess Diag/Eval (2) 3432 Tch Reading II (2) 3653 Educ Psych (3) 4222 Phonics & Pen (2) 4362 Seminar in Legal (2) 4463 Children's Lit (3) xxx3 Math Course (3) Total (17)	1513 College Algebra (3) 3312 Proc for Tch M/M ID (2) 4163 Perc Dev Inf & Todl (3) 4443 Diag Prac in Tch Rdng (3) 4533 Language Dev (3) 4862 Col & Plan in Spec Ed (2) Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4323 Proc for Tch Emot/Beh (3) 4422 Proc for Tch Autism (2) 4613/4813 Ed Tests Meas (3) 4623 Proc for Tch M/M LD (3) 4821 Practicum (1) 4833/4823 Prin Tch El/Sec (3) 4872 Trans Plan & Tch (2) Total (17)	3321 Multicul/Spec Pop (1) 4021 Contemporary Issues (1) 4041 Classrm Mngmt (1) 4665 Student Tchng Elem (5) 4765 Student Tchng Sec (5) Total (13)

* 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**

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
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

Additional Hours To Complete Oklahoma 4x12 Requirement:

Candidates are required to complete a total of 12 hours in each of the four content areas:

_____ **Communication Arts** (ENGL, LIT, COMM, PHILO)

_____ **Mathematics** (MATH) Suggested: MATH 1433, 1443, 2183

_____ **Science** (SCI, BIOL, ASTRO, GEOL, CHEM)

_____ **Social Sciences** (HIST, POLSC, GEOG, SOCIO, ECON, HUM)

Teacher candidates are expected to work closely with their faculty advisor to select courses that fulfill the 4x12 requirement. These courses may be taken at a community college or university (OSRHE Policy 3.21.4).

Early Childhood Education Option

Required Courses **36**

ECED 4163 Perceptual Dev Infants/Toddlers
ECED 4423 Play Methods & Materials
ECED 4463 The Expressive Arts
ECED 4483 Exploring the Child's World
ECED 4533 Guidance for the Preschool Child
ECED 4533L Guide for the Preschool Child Lab
ECED 4612 Practicum in Early Childhood
ECED 4612L Practicum in Early Childhood Lab
ELEM 4222 Phonics and Penmanship
ELEM 4463 Children's Literature
KINES 3393 Nutrition for Children
RDNG 3423 Teaching Reading I
RDNG 3432 Teaching Reading II
RDNG 4443 Diagnostic Prac in Teaching Reading
PSYCH 4533 Language Development

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
†SPCED 3132 Exceptional Children
†EDPSY 3413 Child Psychology

Pre-Professional Semester

EDPSY 3653 Educational Psychology
ELEM 4613 Educational Tests and 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

TOTAL HOURS **122**

†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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1003 Gen Psych (3) 1022 Comp/Info Access (2) 1043 or 1053 U. S. History (3) 1113 English Comp I (3) 1313 Intro to Public Spk (3) Total (15)	1103 Amer Govt & Pol (3) 1213 English Comp II (3) xxx3 Math Course (3) xxx4 Science Course (4) xxx3 Social Science Course (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1004 Lab Science Course (4) 2113 Found of Educ (3) 4423 Play Methods & Mat (3) xxx3 Math Course (3) xxx3 Social Science Course (3) English Proficiency Exam** Total (16)	3132 Excep Child**** (2) 3393 Nutrition for Children (3) 3423 Tch Reading I ¹ (3) 3423 Media & Technology (3) 4533 Language Develop (3) xxx3 Comm Arts Course (3) Total (17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3413 Child Psychology**** (3) 3432 Tchng Reading II² (2) 4222 Phonics & Penmshp (2) 4463 Expressive Arts (3) 4463 Children's Lit (3) xxx3 Math Course (3) Total (16)	1513 College Algebra (3) 4163 Perceptual Develop (3) 4443 Diag Practices³ (3) 4483 Explore Child's World (3) 4533 Guide Preschool Child (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3653 Educ Psych (3) 4612 Pract Early Child*** (2) 4613 Educ Tests & Meas (3) 4833 Prin Tch Elem (3) xxx4 Science Course (4) Total (15)	3321 Multicul/Spec Pop (1) 4021 Contemporary Issues (1) 4041 Classrm Mngmt (1) 4665 Student Tchng Elem (5) 4765 Student Tchng Elem (5) Total (13)

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 HOURSMin. 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. History3

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

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 Diversity3

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

Additional Hours To Complete Oklahoma 4x12 Requirement:

Candidates are required to complete a total of 12 hours in each of the four content areas:

_____ **Communication Arts** (ENGL, LIT, COMM, PHILO)

_____ **Mathematics** (MATH) Suggested: MATH 1433, 1443, 2183

_____ **Science** (SCI, BIOL, ASTRO, GEOL, CHEM)

_____ **Social Sciences** (HIST, POLSC, GEOG, SOCIO, ECON, HUM)

Teacher candidates are expected to work closely with their faculty advisor to select courses that fulfill the 4x12 requirement. 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 and Penmanship

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 Requirements33

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

†SPCED 3132 Exceptional Children

†EDPSY 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

†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 & sciences55

Minimum credit hours in upper-division

(3000/4000 courses).....40

Minimum credit hours (3000/4000 courses)

in major completed at SWOSU8

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1003 Gen Psych (3) 1022 Comp/Info Access (2) 1043 or 1053 U. S. History (3) 1113 English Comp I (3) 1313 Intro to Public Spk (3) Total (15)	1103 Amer Govt & Pol (3) 1213 English Comp II (3) xxx3 Math Course (3) xxx4 Science Course (4) xxx3 Social Science Course (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2113 Found of Educ (3) xxx3 Gen Educ Course (3) xxx3 Math Course (3) xxx4 Science Course (4) xxx3 Social Science Course (3) English Proficiency Exam** Total (16)	3132 Excep Child*** (2) 3202 Mus Meth/Elem Tchr (2) 3423 Tch Reading I ¹ (3) 3513 CMM Math Elem (3) 3522 CMM Soc St Elem (2) xxx3 Comm Arts Course (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3413 Child Psychology*** (3) 3432 Tchng Reading II² (2) 3453 Lang Arts Elem (3) 3393 Nutrition for Children (3) 4222 Phonics & Penmshp (2) xxx3 Math Course (3) Total (16)	1513 College Algebra (3) xxx4 Lab Science Course (4) 4443 Diag Practices³ (3) 4452 CMM Elem Sch Art (2) 4463 Children's Literature (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media & Tech (3) 3653 Educ Psych (3) 4352 Tchng Sci Elem Sch (2) 4613 Educ Tests & Meas (3) 4833 Prin Tch Elem (3) Total (14)	3321 Multicul/Spec Pop (1) 4021 Contemporary Issues (1) 4041 Classrm Mngmt (1) 4665 Student Tchng Elem (5) 4765 Student Tchng Elem (5) Total (13)

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.

*** 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)

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
a higher numbered chemistry or physics course

Humanities **6**

HUM 1103 Introduction to Humanities

AND

LIT 2413 Introduction to Literature

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

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

English Education Major

Required Courses **35**

ENGL 3013 Writing Theory/Practice
ENGL 3603 English Grammar
ENGL 4423 Introduction to Linguistics
ENGL 3023 Literary Theory/Practice
LIT 3033 World Mythology
LIT 3323 Modern Voices in American Literature
LIT 4123 British Literature 1795-1950
LIT 4233 Young Adult Literature
LIT 4553 Issues in American Literature
LIT 4763 British Literary Heritage to 1800
LIT 4993 The Novel
ENGL 4882 English Senior Capstone

World Lit (select one course): **3**

LIT 3113 Early World Literature
LIT 4113 Modern World Literature

Guided Literature Elective (select one) **3**

LIT 3333 Shakespeare in Context
LIT 3343 World Folk Literature
LIT 4593 Diversity in American Literature
LIT 4883 Women and Literature

Guided Writing Elective (select one) **3**

ENGL 3473 Creative Writing of Fiction I
ENGL 3483 Creative Writing of Poetry I
ENGL 3653 Writing in the Disciplines
ENGL 3663 Creative Nonfiction
ENGL 4453 Advanced Composition
ENGL 4773 Editing

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
EDUC 2113 Foundations of Education
†SPCED 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester

EDPSY 3653 Educational Psychology (Sec)
ENGL 4673 Teaching High School English
LIBED 3423 Media & Technology
SECED 4813 Educational Tests & Meas (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 **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 (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

Dr. Kelley Logan, Chair
Department of Language & Literature
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ENGLISH EDUCATION (Code 707)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1003 General Psychology (3) 1043 or 1053 US History (3) 1113 English Comp I (3) 1333 Intro to Public Speak (3) 2413 Intro to Literature (3) Total (16)	1103 American Gov (3) 1143 Mathematical Concepts (3) 1213 English Comp II (3) Gen Educ Crses (3) Life Science (3-4) Total (15-16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1103 Introduction to Humanities (3) 3023 Literary Theory/Prac (3) Elem For Lang I (4) English Proficiency Exam** Gen Educ Crses (3) Physical Science (3-4) Total (16-17)	2113 Foundations of Educ (3) 3013 Writing Theory/Prac (3) 3323 Mod Voice in Amer Lit (3) 4123 Brit Lit 1795-1950 (3) 4233 Young Adult Lit (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3033 World Myth (3) 3132 Exceptional Child*** (2) 4423 Intro to Linguistics (3) 4553 Issue in Amer Lit (3) 4763 British Lit to 1800 (3) Guided Writing Elective (3) Total (17)	3433 Adolescent Psych*** (3) 3603 English Grammar (3) 4993 The Novel (3) Free LIT/ENGL Electives (3) Guided LIT Elective (3) World Lit (3) Total (18)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media & Tech (3) 3653 Educ Psych (Sec) (3) 4675 Teach H.S.English (5) 4813 Tests & Msrmnts (Sec) (3) 4823 Prin Teaching Sec (3) Total (17)	3321 Multi/Special Pop (1) 4021 Contemp Issues in Educ (1) 4041 Classroom Mgmnt (1) 4865 Std Teaching Sec (5) 4882 English Senior Capstone (1) 4965 Std Teaching Sec (5) Total (14)

* 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 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
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
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
SOCIO 1003 Introduction to Sociology

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
HIST 4093 Historical Research and Writing
HIST 4353 Oklahoma History
HIST 4000 level American History (15 hours)
HIST 3000 level European and/or World Hist (12 hours)

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 4813 Educational Tests & Meas (Sec)
SECED 4823 Principles of Teaching Secondary
SOCSC 4133 Teachers' Course in Social Sciences

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 **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 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

FOR INFORMATION CONTACT

Dr. John Hayden, Chair, Department of Social Sciences

Phone: (580) 774-3292; E-mail: socscich@swosu.edu

HISTORY EDUCATION (Code 730)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation** (1) 1003 Intro to Sociology (3) 1043 United States History to 1877 (3) 1113 English Comp I (3) 1143 Math Concepts (3) 2263 Intro to Macroeconomics OR 2363 Intro to Microeconomics (3) Total (16)	1004 Biological Concepts (4) 1033 World History (3) 1053 United States History Since 1877 (3) 1103 World Cultural Geography (3) 1213 English Comp II (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1003 General Psychology (3) 1103 American Government & Politics (3) 1313 Intro to Public Speaking (3) 2113 Foundation in Education (3) 2603 Writing History (3) English Proficiency Exam* Total (15)	3132 Exceptional Child*** (2) American History (3) General Education Courses (7) World History (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3433 Adolescent Psychology*** (3) 4093 Historical Research/Writing (3) 4813 Education Test/Meas(Sec) (3) American History (3) World History (3) Total (15)	3653 Education Psychology (3) 4353 History of Oklahoma (3) 4823 Princ of Tech Sec (3) American History (3) World History (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Pre-Professional Semester 3423 Media & Technology (3) 4133 Teachers Course in the Social Sciences (3) American History (6) Electives (1) World History (3) Total (16)	Professional Semester 3321 Multi-Cultural/Spec Pop (1) 4021 Contemp Issues in Education (1) 4041 Classroom Management (1) 4865 Student Teaching Sec (5) 4865 Student Teaching Sec (5) Total (13)

* 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

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 at least two different categories) **to total 40**

PSYCH 1003 General Psychology

FOR INFORMATION CONTACT:

Dr. Michael M. Dougherty, 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 & Meas (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 2.50

Minimum Grade Point Average in all coursework 2.50

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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient (1) 1023 Comp Info Access (3) 1113 English Comp I (3) 1513 College Algebra (3) 1613 College Trigonometry (3) Gen Educ Crses (3) Total (16)	1003 General Psychology (3) 1103 American Gov Politics (3) 1213 English Comp II (3) 1834 Calculus I (4) 2113 Found In Education (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1313 Intro Public Speaking (3) 2834 Calculus II (4) 3413 Statistical Methods** (3) Gen Educ Crses (6) English Proficiency Exam (if applicable) Total (16)	3653 Linear Algebra (3) 3834 Calculus III (4) Gen Educ Crses (9) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3113 Foundations in Math (3) 3533 Tech and Programming Math*** (3) 4933 Teaching Secondary Math (3) Gen Educ Crses (3) Math Elective (3) Total (15)	3132 Exceptional Child# (2) 3433 Adolescent Psych# (3) 3635 Linear Algebra (3) 3713 College Geometry (3) Math Elective (3) Total (14)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Pre-Professional Semester 3423 Media & Tech (3) 3653 Educ Psychology (3) 4101 Math Capstone (1) 4653 Modern Algebra (3) 4813 Educ Tests & Meas (3) 4823 Princ of Tech Sec (3) Total (16)	Professional Semester 3321 Multi-Cultrl/Spec Pop (1) 4021 Contemp Issues in Ed (1) 4041 Classroom Mgmt (1) 4865 Student Teach Sec (5) 4965 Student Teach Sec (5) Total (13)

* 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

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 NATURAL SCIENCE EDUCATION (Code No. 727)

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 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**

ASTRO 1904 Astronomy
OR
GEOL 1934 Physical Geology w/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**

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

Natural Science Education Major

Required Courses **35**

BIOL 1054 Principles of Biology I
BIOL 1254 Principles of Biology II
BIOL 3053 Cell Biology
BIOL 3253 Genetics
BIOL 3283 Ecology
CHEM 1203 General Chemistry I
CHEM 1252 General Chemistry I Lab
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
PHY 1044 Basic Physics I
PHY 1054 Basic Physics II

Auxiliary Requirements **3**

MATH 1613 College Trigonometry
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) **14-15**

General Concentration

Select 14 hours of electives from two or more areas of Biology, Chemistry, or Physics.

Biology Concentration

Required course:

BIOL 3152 Genetics and Cell Biology Lab

Remaining hours are to be selected from:

(recommended courses in italics)

BIOL 3304 Aquatic Ecology
BIOL 3704 Human Anatomy
BIOL 3814 Biology of Plants
BIOL 3904 Human Physiology
BIOL 3604 Biology of Insects
BIOL 4355 Microbiology
BIOL 4454 Plant Taxonomy
BIOL 4604 Terrestrial Ecology
BIOL 4853 Evolution

Chemistry Concentration

Choose at least 14 hours of chemistry electives below:

CHEM 2114 Organic/Biochemistry
CHEM 3013/3111 Organic Chemistry I
CHEM 4113/4021 Organic Chemistry II
CHEM 3124 Quantitative Analysis
CHEM 3244 Environmental Chemistry
CHEM 4124 Biochemistry
CHEM 4254 Industrial Chem. & Environmental Reg.
(Students completing this specialization cannot select both CHEM 2114 and CHEM 3013/3111.)

Physics Concentration

Choose at least 14 hours of physics electives below:

PHY 2145 General Physics I
PHY 2155 General Physics II
PHY 3403 Modern Physics for Engineers
PHY 3311 Modern Physics Laboratory
(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.....128

** 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..... 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 SWOSU8

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

Minimum Grade Point Average in all coursework.....2.50

FOR INFORMATION CONTACT:

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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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1054 Principles of Biology I (4) 1113 English Composition I (3) 1513 College Algebra (3) General Education (1-5) Total (12-16)	1003 General Psychology (3) 1103 American Government and Politics (3) 1213 English Composition II (3) 1254 Principles of Biology II (4) 1613 College Trigonometry (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1904 Astronomy OR 1934 Physical Geology (4) 3053 Cell Biology (3) General Education (3) English Proficiency Exam *** Total (15)	1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 1313 Introduction to Public Speaking (3) 2113 Foundations of Education (3) 3253 Genetics (3) 3283 Ecology (3) General Education (3) Total (20)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 3132 Exceptional Children ¹ (2) General Education (3) Science elective** (8) Total (17)	1054 Basic Physics II (4) 3433 Adolescent Psych ¹ (3) General Education (3) Science elective** (6) Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media and Technology (3) 3653 Educational Psychology (Sec) (3) 4813 Ed Tests and Measurements (3) 4823 Prin of Tchg Sec (3) 4843 Teachers Course in Sci + (3) Total (15)	3321 Multicultural/Spec Pop (1) 4021 Contemp Issues in Education (1) 4041 Classroom Management (1) 4865 Student Teaching Sec (5) 4965 Student Teaching Sec (5) Total (13)

* 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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1054 Principles of Biology I (4) 1113 English Composition I (3) 1513 College Algebra (3) General Education (1-5) Total (12-16)	1003 General Psychology (3) 1103 American Government and Politics (3) 1213 English Composition II (3) 1254 Principles of Biology II (4) 1613 College Trigonometry (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1904 Astronomy OR 1934 Physical Geology (4) 3053 Cell Biology (3) General Education (3) English Proficiency Exam *** Total (15)	1303 General Chemistry II (3) 1313 Introduction to Public Speaking (3) 1352 General Chemistry II Lab (2) 2113 Foundations of Education (3) 3153 Genetics and Cell Biology Lab (3) 3253 Genetics (3) 3283 Ecology (3) Total (20)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 3132 Exceptional Children ¹ (2) General Education (3) Biology elective**(8) Total (17)	1054 Basic Physics II (4) 3433 Adolescent Psych ¹ (3) General Education (3) Biology elective**(6) Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media and Technology (3) 3653 Educational Psychology (Sec) (3) 4813 Ed Tests and Measurements (3) 4823 Prin of Tchg Sec (3) 4843 Teachers Course in Sci + (3) Total (15)	3321 Multicultural/Spec Pop (1) 4021 Contemp Issues in Education (1) 4041 Classroom Management (1) 4865 Student Teaching Sec (5) 4965 Student Teaching Sec (5) Total (13)

* 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 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 (CHEMISTRY-Code 727)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1054 Principles of Biology I (4) 1113 English Composition I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) Total (16)	1213 English Composition II (3) 1254 Principles of Biology II (4) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 1613 College Trigonometry (3) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1904 Astronomy OR 1934 Physical Geology (4) 3053 Cell Biology (3) General Education (3) Chemistry elective (4)** English Proficiency Exam *** Total (14)	1003 General Psychology (3) 1313 Introduction to Public Speaking (3) 3253 Genetics (3) 3283 Ecology (3) Chemistry elective (4)** Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 2113 Foundations of Education (3) 3132 Exceptional Children ¹ (2) General Education (3) Chemistry elective**(4) Total (16)	1054 Basic Physics II (4) 1103 American Government and Politics (3) 3433 Adolescent Psych ¹ (3) General Education (3) Chemistry elective**(2) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media and Technology (3) 3653 Educational Psychology (Sec) (3) 4813 Ed Tests and Measurements (3) 4823 Prin of Tchg Sec (3) 4843 Teachers Course in Sci + (3) General Education (3) Total (18)	3321 Multicultural/Spec Pop (1) 4021 Contemp Issues in Education (1) 4041 Classroom Management (1) 4865 Student Teaching Sec (5) 4965 Student Teaching Sec (5) Total (13)

* 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 4113/4021 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 CHEM 3013/3111.

*** 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 (PHYSICS-Code 727)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation* (1) 1113 English Composition I (3) 1203 General Chemistry I (3) 1252 General Chemistry I Lab (2) 1513 College Algebra (3) 1613 College Trigonometry (3) Total (15)	1213 English Composition II (3) 1303 General Chemistry II (3) 1352 General Chemistry II Lab (2) 1834 Calculus I (4) 2145 General Physics I (5) Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1054 Principles of Biology I (4) 1313 Introduction to Public Speaking (3) 2155 General Physics II (5) 2834 Calculus II (4) English Proficiency Exam *** Total (16)	1103 American Government and Politics (3) 1254 Principles of Biology II (4) 3311 Mod Phys Eng Lab (1) 3403 Mod Phys Eng (3) General Education (3) Total (14)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1003 General Psychology (3) 1904 Astronomy OR 1934 Physical Geology (4) 2113 Foundations of Education (3) 3052 Cell Biology (2) General Education (3) Total (15)	3132 Exceptional Children ¹ (2) 3253 Genetics (3) 3283 Ecology (3) 3433 Adolescent Psych ¹ (3) General Education (3) Physics elective**(1) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Media and Technology (3) 3653 Educational Psychology (Sec) (3) 4813 Ed Tests and Measurements (3) 4823 Prin of Tchg Sec (3) 4843 Teachers Course in Sci + (3) Total (15)	3321 Multicultural/Spec Pop (1) 4021 Contemp Issues in Education (1) 4041 Classroom Management (1) 4865 Student Teaching Sec (5) 4965 Student Teaching Sec (5) Total (13)

* First-time entering freshmen need to take 1001 Freshman Orientation.

** Credit hours for students taking 1715 College Algebra and Trigonometry must total 127 hours.

*** 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.

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION DEPARTMENT OF KINESIOLOGY

FACULTY

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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

Majors: B.S. Exercise Science
B.S.Ed. Health and Physical Education

Minors: Athletic Coaching (Non-Certification)
Health and Wellness
Sports Management

Masters: 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
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.

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**

PSYCH 1003 General Psychology
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 4012 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 4383 Dev of Programs, Facilities & Mngmt
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 †
SPRTM 4163 Sports Nutrition

Minor **18-24**

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

No more than two 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:

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Department of Kinesiology
Phone: (580) 774-3181
E-mail: vicki.hatton@swosu.edu

EXERCISE SCIENCE (Code 170) Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Composition I (3) 1113 Wellness Concepts (3) General Education Required Course (3) General Education Required Course (3) Total (13)	1003 General Psychology (3) 1213 English Composition II (3) 1313 Introduction to Public Speaking (3) 2502 Care and Prevention of Athletic Injury (2) General Education Course (3) General Education Required Course (3) Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1153 Nutrition (3) 2222 Introduction to Kinesiology (2) General Education Course (6) General Education Required Course (4) General Education Required Course (3) English Proficiency Exam** Total (18)	3443 Kinesiology and Anatomy (3) 4012 Weight & Circuit Training (2) 4163 Sports Nutrition (3) General Education Required Course (3) General Education Required Course (3) Total (14)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
2212 First Aid (2) 4063 Legal Aspects (3) 4234 Exercise Physiology (4) Free Electives (2) Minor (6) Total (17)	4262 Motor Learning (2) 4383 Dev Programs/Facility/Management OR 4573 Fitness Program Management (3) 4533 Consumer Health (3) 4883 Exercise Prescription & Testing (3) Free Electives (2) Minor (3) Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3353 Health and Aging (3) 3662 Exercise Program for Specific Population (2) Minor (9) Total (14)	4995 Practicum in Exercise Science (5) 4997 Practicum in Exercise Science (7) Total (12)

* 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 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

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.

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
4892 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 H&PE
KINES 4541 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

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

FOR INFORMATION CONTACT:

Dr. Vicki Hatton, Chair
Department of Kinesiology
Phone: (580) 774-3181
E-mail: vicki.hatton@swosu.edu

HPE EDUCATION (Code 709) Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1113 English Composition I (3) 1133 Wellness Concepts (3) General Education Required Course (3) General Education Required Course (3) Total (13)	1003 General Psychology (3) 1213 English Composition II (3) 2212 First Aid (2) General Education Course (3) General Education Required Course (3) P. E. Activity (1) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1313 Introduction to Public Speaking (3) 2222 Introduction to Kinesiology (2) General Education Course (3) General Education Required Course (3) Major Elective (3) P. E. Activity (1) English Proficiency Exam** Total (15)	1932 Techniques Applied to Gym, Fitness & Aquatics (2) 1942 Techniques Applied to Individual Sports (2) General Education Course (3) General Education Required Course (4) Major Elective (5) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1952 Techniques Applied to Team Sports (2) 2113 Foundations of Education (3) 2502 Care & Prevention of Athletic Injury (2) 3132 Exceptional Children*** (2) 4234 Exercise Physiology OR 3443 Kinesiology & Anatomy (3-4) 4243 Therapeutic/Prescriptive Physical Education (3) Major Elective (2) Total (17-18)	3133 Teaching Health in Public School (3) 3213 Developmental Psychology*** (3) 3423 Media & Technology (3) 4234 Exercise Physiology OR 3443 Kinesiology & Anatomy (3-4) 4262 Motor Learning (2) Major Elective (2) Total (16-17)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3453 or 3653 Edu Psychology (3) 3553 M & M Elementary PE (3) 4541 Capstone (1) 4553 Teachers Course in H& PE (3) 4613 or 4813 Ed Test/Measures (3) 4833 Prin Teach Elementary Or 4823 Prin Teach Secondary (3) Total (16)	3321 Multi/Spec Pop (1) 4021 Contemporary Issues in Education (1) 4041 Classroom Management (1) 4765 Stud Teaching in Elem (5) 4965 Stud Teaching in Sec (5) Total (13)

* 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 DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

FACULTY

Chad Kinder, Chair
Education Center, Room 121
Phone: (580) 774-3291

<http://www.swosu.edu/prm/>

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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.

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
Municipal Parks Agencies

YMCA / YWCA
Military Recreation
Organized Camps
Boys Scouts of America
Girl Scouts of America
Adventure Programs
State Park Agencies

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.

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
Masters:	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:

All courses offered are taught in small classes by instructors holding a Masters 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 COURSES31-35

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

Science7-8

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
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

Select one course.

KINES 1133 Wellness Concepts & Exercise Appl

Computer Proficiency0-3

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 Courses31

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 Recreation Specialization 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 Specialization 9

NRM 4172 Natural Resource Law
NRM 4201 The Park Ranger
NRM 4211 Game and Fish Law
NRM 4812 Wildlife Management
PRM 2201 Basic Handgun
PRM 2122 Wilderness First Aid
PRM 2143 Emergency Response
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

Sport Management Specialization 9

KINES 2242 Sports Officiating
KINES 4052 Sociology of Sport
KINES 4122 Organization & Adm of Athletics
PSYCH 4133 Psychology of Sports
SPRTM 3503 Sports Management
SPRTM 3513 Sports Finance
SPRTM 3523 Leadership in Sport
SPRTM 4122 Recreation & Sports Mgmt. Law
SPRTM 4132 Recreation & Sports Employ. Law
SPRTM 4163 Sport Nutrition
SPRTM 4533 Sports Info. Management
SPRTM 4573 Fitness Program Management

Wildland Fire Management Specialization 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

Minor18-24

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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* (1) 1113 English Comp I (3) Gen Edu Crses (9) Recreation Activity (2) Total (15)	1213 English Comp II (3) Gen Educ Crses (10) Recreation Activity (2) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2102 Foundations of Parks & Rec (2) Free Elective (4) Gen Educ Crses (10) Total (16)	3663 Recreation Management (3) Free Electives (2) Gen Educ Crses (9) PRM Specialization Areas (2) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3702 Rec Areas & Fac Mgmt. (2) 4113 Risk Management Rec (3) Free Elective (4) Minor Electives (6) Total (15)	4163 Community Recreation (3) 4633 Outdoor Recreation (3) Free Electives (2) Minor Electives (6) PRM Specialization Area (2) Total (16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4773 Natural Res Rec Mgmt (3) Free Elective (3) Minor Electives (6) PRM Specialization Area (2) Total (14)	4995 Intern In PRM (6) 4997 Intern In PRM (7) Total (12)

* 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)

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
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

Parks and Wildlife Law Enforcement Major

Required Courses for all options34

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 Enforce
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 Mngmt
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 coursework2.00
Minimum Grade Point Average in major2.00

PARKS AND WILDLIFE LAW ENFORCEMENT (Code 161)
(CLEET OPTION)
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
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)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2102 Foundations in PRM (2) Gen Educ Crses (10) Free Electives (3)	3122 Wilderness First Aid (2) 3663 Recreation Management (3) 4113 Risk Management (3) 4172 Natural Resource Law (2) Free Electives (5)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3133 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)

FOURTH YEAR (CLEET OPTION)	
FIRST SEMESTER	SPRING INTERIM
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)

Fourth Year
(CLEET OPTION)
SECOND SEMESTER
4421 Traffic Law (1) 4433 Crim Investigations I (3) 4441 Radar Operations (1) 4633 Crim Investigations II (3) 4683 Patrol Procedures (3) 4691 Emer Veh Oper (1) Total (12)

* 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

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
(may also take w/lab)

SCI 1501 Concepts of Phy Science Lab

PHY 1044 Basic Physics I w/Lab

PHY 1063 General Physics

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**

Wildland Firefighting Major

Required Major Area Courses13

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

Internship Option (5 hours)

NRM 2995 Internship in Wildland Fire Mgmt.
(200 hours)

Standard Option (5 hours)

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

TOTAL HOURS.....60

60 hours required for A.S. Degree

18 hours required for major area

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION DEPARTMENT OF PSYCHOLOGY

FACULTY

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Quanah Parker Center, PAR 233
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Jorie Edwards.....	PAR 228.....	jorie.edwards@swosu.edu	(580) 774-6052
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Kristin Woods.....	PAR 229.....	kristin.woods@swosu.edu	(580) 774-3723

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 HOURSMin. 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. History3

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
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 Diversity3

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..... 18-24

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, 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 major2.00

PSYCHOLOGY (Code 160)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) General Education Courses (11-12) Total (15-16)	General Education Courses (12) Level II Psychology Course (3) Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
Free Elective (3) General Education Courses (6-9) Level II or III Psychology Courses (3-6) English Proficiency Exam** Total (12-18)	General Education Courses (6) Level III Psychology Courses (6) Minor (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
Free Elective (3) Level III or IV Psychology Course (3) Minor (6) Total (12)	Free Electives (6) Level III or IV Psychology Courses (6) Minor (6) Total (18)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Free Electives (6) Level IV or V Psychology Courses (6) Minor (3) Total (15)	Free Electives (6) Level IV or V Psychology Courses (6) Minor (3) Total (15)

* First time entering freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

PSYCHOLOGY (PSYCH)		
IDEAL PROGRESSION OF COURSES		
Level I	1003	General Psychology
Level II	2423	Social Psychology
	2433	Psychological Statistics
	3213	Developmental Psychology
	3363	Psychology of Personality
Level III	3201-4	Contemporary Problems
	3224	Research Methods
	3233	Learning & Memory
	3243	Cross-Cultural Psychology
	3253	Psychological Tests
	3323	Abnormal Psychology
	3333	Behavior Management
Level IV	4113	Issues in Chemical Dependency
	4123	Theories & Principles of Psychotherapy
	4133	Psychology of Sports
	4203	Psychology of Women
	4223	Media & Mental Illness
	4313	Intro to Clinical Psychology
	4323	Forensic Psychology
	4333	Physiological Psychology
	4371-4	Psychological Research
	4391-4	Advanced Seminar in Psychology
	4533	Language Development

Degrees Offered in the COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

Everett Dobson School of Business and Technology

Dr. Chad Kinder, Interim 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

Stafford Building, Room 301 | Phone: (580) 774-3061

E-mail: trisha.wald@swosu.edu

<http://www.swosu.edu/business>

Madeline Baugher, Program Director, Computer Science

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Amanda Evert.....	STF 353.....	amanda.evert@swosu.edu	(580) 774-3040
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Sarah King.....	STF 302.....	sarah.king@swosu.edu	(580) 774-7194
Holly McKee.....	STF 348.....	holly.mckee@swosu.edu	(580) 774-3049
Jonna Myers.....	STF 350.....	jonna.myers@swosu.edu	(580) 774-7186
Patsy Parker.....	STF 335.....	patsy.parker@swosu.edu	(580) 774-3284
Hank Ramsey.....	STF 352.....	hank.ramsey@swosu.edu	(580) 774-3042
Brian Rickel.....	STF 310.....	brian.rickel@swosu.edu	(580) 774-3116
Karen Sweeney.....	STF 342.....	karen.sweeney@swosu.edu	(580) 774-3117
Neal Xiong.....	STF 309.....	neal.xiong@swosu.edu	(580) 774-3751

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 (AACSB).

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 Science

Minors: Accounting Information Systems
 Computer Science Management
 Entrepreneurship Marketing
 Finance

Graduate: Master of Business Administration
 Master of Science in Management

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
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

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
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 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	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1023 Computers & Info Access (3) 1123 Intro to Business OR GE Elective Course (3) 1113 English Composition I (3) 1513 College Algebra (3)	1103 American Government & Politics (3) 1213 English Composition II (3) 1313 Intro to Public Speaking (3) 1043 or 1053 U.S. History (3) SCIENCE Course #1 (4)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2213 Principles of Financial Accounting (3) 2263 Intro to Macroeconomics (3) General Education Courses (8-9**)	2313 Principles of Managerial Accounting (3) 2363 Intro to Microeconomics (3) 2463 Business Statistics (3) 3113 Intro to MIS (3) SCIENCE Course #2 (3-4)
Total (14-15)	Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3143 Principles of Marketing (3) 3213 Accounting Information Systems (3) 3313 Intermediate Accounting I (3) 3413 Business Communication (3) 4313 Income Tax Accounting I (3)	3123 Legal Environment of Bus (3) 3323 Intermediate Accounting II (3) 3713 Cost Accounting (3) 3823 Quantitative Methods in Business (3) Free Electives (2)
Total (15)	Total (14)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3233 Management (3) 3343 Business Finance (3) 4213 Auditing I (3) Accounting (ACCTG) Electives (3) Free Electives (2)	3323 Commercial Law (3) 4923 Strategic Management & Policy (3) Accounting (ACCTG) Electives (6) Free Electives (3)
Total (14)	Total (15)

*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.

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
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-4433 Entrepreneur/New Venture)
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 (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

ENTREPRENEURSHIP MAJOR (Code 217)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1023 Computers & Info Access (3) 1123 Intro to Business OR GE Elective Course (3) 1113 English Composition I (3) 1513 College Algebra (3)	1103 American Government & Politics (3) 1213 English Composition II (3) 1313 Intro to Public Speaking (3) 1043 or 1053 U.S. History (3) SCIENCE Course #1 (4)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2213 Principles of Financial Accounting (3) 2263 Intro to Macroeconomics (3) General Education Courses (8-9**)	2313 Principles of Managerial Accounting (3) 2363 Intro to Microeconomics (3) 2463 Business Statistics (3) 3113 Intro to MIS (3) SCIENCE Course #2 (3-4)
Total (14-15)	Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3123 Legal Environment of Business (3) 3143 Principles of Marketing (3) 3233 Management (3) Free Electives (4)	3343 Business Finance (3) 3823 Quantitative Methods in Business (3) Electives in Major ¹ (9)
Total (13)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3423 Business Communication (3) 4433 Entrepreneurship & New Venture (3) Business Elective ² (3) Free Electives (6)	4923 Strategic Management & Policy (3) Business Elective ² (3) Electives in Major ¹ (6) Free Electives (3)
Total (15)	Total (15)

*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 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
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

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 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

Courses Required.....**12**

FINAN 3663 Investments
FINAN 3213 Risk Management
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 **OR** 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 (3000/4000 courses) in major completed at SWOSU8

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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1023 Computers & Info Access (3) 1123 Intro to Business OR GE Elective Course (3) 1113 English Composition I (3) 1513 College Algebra (3)	1103 American Government & Politics (3) 1213 English Composition II (3) 1313 Intro to Public Speaking (3) 1043 or 1053 U.S. History (3) SCIENCE Course #1 (4)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2213 Principles of Financial Accounting (3) 2263 Intro to Macroeconomics (3) General Education Courses (8-9**)	2313 Principles of Managerial Accounting (3) 2363 Intro to Microeconomics (3) 2463 Business Statistics (3) 3113 Intro to MIS (3) SCIENCE Course #2 (3-4)
Total (14-15)	Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3143 Principles of Marketing (3) 3213 Risk Management (3) 3343 Business Finance (3) 3423 Business Communication (3) Free Electives (3)	3123 Legal Environment of Business (3) 3233 Management (3) 3663 Investments (3) 3823 Quantitative Methods in Business (3) 4063 Financial Institutions & Markets (3)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Accounting (ACCTG) or Finance (FINAN) Elective (9) Business, COMSC, MATH or ORGL Elective (3) Free Electives (3)	4263 Financial Management (3) 4923 Strategic Management & Policy (3) Accounting (ACCTG) or Finance (FINAN) Elective (3) Free Electives (4)
Total (15)	Total (13)

*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.

BACHELOR OF BUSINESS ADMINISTRATION MANAGEMENT (Code No. 213)

Management Major

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL GENERAL EDUCATION HOURSMin. 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. History3

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
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 Diversity3

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

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 Electives17

Total..... 120

For the minor program, refer to the Management
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 SWOSU8
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 major2.00

MANAGEMENT MAJOR (Code 213)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1023 Computers & Info Access (3) 1123 Intro to Business OR GE Elective Course (3) 1113 English Composition I (3) 1513 College Algebra (3)	1103 American Government & Politics (3) 1213 English Composition II (3) 1313 Intro to Public Speaking (3) 1043 or 1053 U.S. History (3) SCIENCE Course #1 (4)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2213 Principles of Financial Accounting (3) 2263 Intro to Macroeconomics (3) General Education Courses (8-9**)	2313 Principles of Managerial Accounting (3) 2363 Intro to Microeconomics (3) 2463 Business Statistics (3) 3113 Intro to MIS (3) SCIENCE Course #2 (3-4)
Total (14-15)	Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3123 Legal Environment of Business (3) 3143 Principles of Marketing (3) 3233 Management (3) 3423 Business Communication (3) Free Electives (3)	3333 Human Resource Management (3) 3343 Business Finance (3) 3823 Quantitative Methods in Business (3) Free Electives (3) Management (MNGMT) Elective ² (3)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3433 Dynamics Organizational Management (3) 3533 Organizational Behavior (3) 4133 Production/Operations Management (3) Business Elective ¹ (3) Free Electives (3)	4923 Strategic Management & Policy (3) Free Electives (7) Management (MNGMT) Elective ² (3)
Total (15)	Total (13)

*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
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
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**12**

MRKTG 3243 Promotional Strategy
MRKTG 3443 Marketing/Consumer Behavior
MRKTG 4123 Services Marketing
MRKTG 4243 Marketing Research

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

3000-4000 Level Marketing (MRKTG) Courses (6 hours)
3000-4000 Level Business (ACCTG, ENTRP, FINAN, MNGMT, MRKTG) **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 (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

MARKETING MAJOR (Code 214)

Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1023 Computers & Info Access (3) 1123 Intro to Business OR GE Elective Course (3) 1113 English Composition I (3) 1513 College Algebra (3) Total (16)	1103 American Government & Politics (3) 1213 English Composition II (3) 1313 Intro to Public Speaking (3) 1043 or 1053 U.S. History (3) SCIENCE Course #1 (4) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2213 Principles of Financial Accounting (3) 2263 Intro to Macroeconomics (3) General Education Courses (8-9**) Total (14-15)	2313 Principles of Managerial Accounting (3) 2363 Intro to Microeconomics (3) 2463 Business Statistics (3) 3113 Intro to MIS (3) SCIENCE Course #2 (3-4) Total (15-16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3123 Legal Environment of Business (3) 3143 Principles of Marketing (3) 3233 Management (3) 3423 Business Communication (3) Free Electives (3) Total (15)	3243 Promotional Strategy (3) 3343 Business Finance (3) 3823 Quantitative Methods in Business (3) Free Electives (3) Marketing (MRKTG) Elective ² (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3443 Consumer Behavior (3) 4243 Marketing Research (3) Free Electives (6) Marketing (MRKTG) Elective ² (3) Total (15)	4123 Services Marketing (3) 4923 Strategic Management & Policy (3) Business Elective ¹ (3) Free Electives (4) Total (13)

*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)

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
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

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 Courses21

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 Electives15

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

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

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

ECONO 2463 Business Statistics

OR MATH 3433 Statistics I

OR MATH 3413 Statistical Methods

ENTRP 3823 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 & sciences55
Minimum credit hours in upper-division
(3000/4000 courses)40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU12
Minimum credit hours at SWOSU (15 of the last 30)30
Minimum Grade Point Average in all coursework2.00
Minimum Grade Point Average in major2.00

COMPUTER SCIENCE MAJOR (Code 110)
Computer Science Option
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Computers & Info Access (3) 1033 Computer Science I.(3) 1113 English Composition I (3) 1223 Technology & Society (3) 1513 College Algebra (3) Total (16)	1053 Computer Science II (3) 1103 Intro to Info Security (3) 1103 American Government & Politics (3) 1213 English Composition II (3) SCIENCE Course #1 (4) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 or 1053 U.S. History (3) 1313 Intro to Public Speaking (3) 1834 Calculus I OR 2823 Applied Calculus (3-4) 2043 Discrete Structures (3) 2413 Data Structures (3) Total (15-16)	3013 Computer Architecture (3) Computer Science (COMSC) Elective*** (3) Free Electives (6) General Education Course (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3053 Operating Systems (3) 3433 Statistics I OR 3413 Statistical Methods (3) Computer Science (COMSC) Elective*** (3) Free Electives (3) General Education Course (3) Total (15)	3153 Data Communication & Networks (3) Computer Science (COMSC) Electives*** (6) Free Electives (3) SCIENCE Course #2 (3-4) Total (15-16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
Auxiliary COMSC Requirement (3-4) Computer Science (COMSC) Elective*** (3) Free Electives (6) General Education Course (2-3**) Total (14-16)	3133 Software Engineering (3) 4953 CS/IS Capstone (3) Auxiliary COMSC Requirement (3) Free Electives (3-7) Total (12-16)

* First time entering freshmen need to take 1001 Freshman Orientation

**2 hours of GE's if 2nd Science was 4 hours; 3 hours of GE's if 2nd Science was 3 hours.

*** At least 9 credit hours 3000-4000 level with Advisor Approval.

COMPUTER SCIENCE MAJOR (Code 110)
Information Systems Option
Suggested Course Sequence

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Computers & Info Access (3) 1033 Computer Science I (3) 1113 English Composition I (3) 1223 Technology & Society (3) 1513 College Algebra (3)	1053 Computer Science II (3) 1103 American Government & Politics (3) 1103 Intro to Info Security (3) 1213 English Composition II (3) SCIENCE Course #1 (4)
Total (16)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 or 1053 U.S. History (3) 1313 Intro to Public Speaking (3) 2043 Discrete Structures (3) Computer Science (COMSC) Electives*** (6)	2603 Network Security (3) 3113 Intro to MIS (3) Computer Science (COMSC) Elective*** (3) Free Electives (6)
Total (15)	Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3053 Operating Systems (3) 3913 Web Development (3) ECONO or MATH Statistics (3) Free Electives (3) General Education Course (3)	3153 Data Communication & Networks (3) 3403 Database Systems (3) 4513 Business Intelligence (3) SCIENCE Course #2 (3-4)
Total (15)	Total (12-13)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3823 Quantitative Methods in Business (3) Computer Science (COMSC) Electives*** (6) Free Electives (3) General Education Course (2-3**)	3143 Technical Presentations (3) 4953 CS/IS Capstone (3) Free Electives (7) General Education Course (3)
Total (14-15)	Total (16)

* First time entering freshmen need to take 1001 Freshman Orientation

**2 hours of GE's if 2nd Science was 4 hours; 3 hours of GE's if 2nd Science was 3 hours.

*** At least 9 credit hours 3000-4000 level with Advisor Approval.

SCHOOL OF BUSINESS AND TECHNOLOGY DEPARTMENT OF ENGINEERING TECHNOLOGY

FACULTY

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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 Engineering 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)

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 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 **4**

CHEM 1004 General Chemistry w/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**

Select one course.

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**

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

PHY 1044 Basic Physics I w/Lab

MFET 4020 Prof Certification Requirements

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 & Environ Reg

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

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

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 (Code 131)
Computer Electronics Engineering Technology Option
Suggested Course Sequence#

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1101 Intro to Technology (1) 1113 English Comp I (3) 1203 Engineering Drafting (3) 1223 Technology & Society (3) 1513 College Algebra (3) 1713 Basic Elec Science (3)	1023 Comp/Info Access* (3) 1213 English Comp II (3) 1433 Visual Basic Program (3) 1613 College Trig (3) 2713 Fundamental Elec (3) 3263 Machine Drafting (3)
Total (17)	Total (18)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1004 Biological Concepts (4) 1033 Computer Science I (3) 2823 Applied Calculus (3) 3833 Communication Elec (3) Gen Ed Humanities Course (3) English Proficiency Exam **	1004 General Chemistry (4) 1053 Computer Science II (3) 2413 Non-Metal Materials & Proc (3) 2513 Fabrication Proc I (3) 3843 Telecommunications (3)
Total (16)	Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 2813 Digital Devices (3) 3463 Manufacturing Ops I (3) 4843 Industrial Controls (3) Electronics Elective (3)	1043 OR 1053 US History (3) 3143 Technical Presentations (3) 3613 Power Systems (3) 4493 Manufacturing Ops II (3) Gen Ed Humanities Course (3) GE Elective (3)
Total (16)	Total (18)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
1103 American Gov't (3) 2463 Business Stats OR 3413 Stat Methods (3) 4433 Quality Control (3) 4813 Networks & Dist Controls (3) COMSC Elective (3)	3113 Industrial Safety (3) 4020 Prof. Cert. Req. (0) 4223 Electronics Capstone (3) 4243 3D CAD – Solidworks (3) 4373 Econ Decision Analy (3) GE Elective (3)
Total (15)	Total (15)

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#

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1023 Comp/Info Access* (3) 1101 Intro to Technology (1) 1113 English Comp I (3) 1203 Engineering Drafting (3) 1223 Technology & Society (3) 1513 College Algebra (3)	1004 Biological Concepts (4) 1004 General Chemistry (4) 1103 American Gov't (3) 1213 English Comp II (3) 1613 College Trig (3)
Total (17)	Total (17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 <i>OR</i> 1053 US History (3) 1044 Basic Physics I (4) 2413 Non-Metal Materials & Proc (3) 2823 Applied Calculus (3) 3263 Machine Drafting (3) English Proficiency Exam **	1203 General Chem I (3) 1252 General Chem I Lab (2) 1713 Basic Elec Science (3) 2513 Fabrication Proc I (3) 3173 Environmental Regs (3) Gen Ed Humanities Course (3)
Total (16)	Total (17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1303 General Chem II (3) 1352 General Chem II Lab (2) 1433 Visual Basic Prog (3) 2463 Business Stats <i>OR</i> 3413 Stat Methods (3) 3463 Manufacturing Ops I (3) 4243 3D CAD – Solidworks (3)	1934 Physical Geology (4) 2114 Organic/Biochem (4) 3413 Production Processes (3) 4493 Manufacturing Ops II (3) GE Elective (3)
Total (17)	Total (17)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3113 Industrial Safety (3) 3143 Technical Presentations (3) 4433 Quality Control (3) 3613 Power Systems (3) Gen Ed Humanities Course (3)	4020 Pro Cert Req (0) 4254 Ind Chem & Env Regs (4) 4355 Microbiology (5) 4373 Econ Decision Analy (3) GE Elective (3)
Total (15)	Total (15)

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#

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1101 Intro to Technology (1) 1113 English Comp I (3) 1203 Engineering Drafting (3) 1223 Technology & Society (3) 1513 College Algebra (3)	1023 Comp/Info Access* (3) 1004 Biological Concepts (4) 1103 American Gov't (3) 1213 English Comp II (3) 1613 College Trig (3)
Total (14)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry (4) 1713 Basic Elec Science (3) 2513 Fabrication Proc I (3) 2823 Applied Calculus (3) 3263 Machine Drafting (3) English Proficiency Exam**	1043 <i>OR</i> 1053 US History (3) 1433 Visual Basic Prog (3) 2413 Non-Metal Materials & Proc (3) 2713 Fundamental Elec (3) 3523 Fabrication Proc II (3) Gen Ed Humanities Course (3)
Total (16)	Total (18)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I (4) 2463 Business Stats <i>OR</i> 3413 Stat Methods (3) 3463 Manufacturing Ops I (3) 3513 Materials Test/Analy (3) GE Elective (3)	3113 Industrial Safety (3) 3413 Production Processes (3) 4243 3D CAD – Solidworks (3) 4493 Manufacturing Ops II (3) GE Elective (3) Gen Ed Humanities Course (3)
Total (16)	Total (18)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3183 Statics & Strengths (3) 3433 Automation/Robotics (3) 4433 Quality Control (3) 4514 Machine Tool Proc (4) 4753 Senior Capstone (3)	3143 Technical Presentations (3) 3613 Power Systems (3) 4020 Prof Cert Req (0) 4373 Econ Decision Analy (3) 4443 Material Hand/Facility Plan (3) 4454 Comp Aided Manuf (CAM) (4)
Total (16)	Total (16)

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)

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 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

Physical Science **4**

SCI 1513 Conc of Phy Science
SCI 1501 Concepts of Phy Science 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**

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

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) 433-4514.

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

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)

4000-12 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 upper division maximum 12)

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

Industrial Technology (Code 135)
Electronics Technology Option
Suggested Course Sequence#

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1101 Intro to Technology (1) 1113 English Comp I (3) 1203 Engineering Drafting (3) 1223 Technology & Society (3) 1513 College Algebra (3) 1713 Basic Elec Science (3)	1023 Comp/Info Access* (3) 1103 American Gov't (3) 1213 English Comp II (3) 2463 Business Stats <i>OR</i> 3413 Stat Methods (3) 2713 Fund Electronics (3)
Total (17)	Total (15)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1514 Concepts of Phy Science (4) 2413 Non-Metal Materials & Proc (3) 3833 Communication Electronics (3) Gen Ed Humanities Course (3) GE Elective (3) English Proficiency Exam**	1004 Biological Concepts (4) 1043 <i>OR</i> 1053 US History (3) 2363 Intro to Microeconomics (3) 3843 Telecommunications (3) 2513 Fabrication Proc I (3)
Total (16)	Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry (4) 2813 Digital Devices (3) 3613 Power Systems (3) 4243 3D CAD – Solidworks (3) 4843 Industrial Controls (3)	3113 Industrial Safety (3) 3143 Technical Presentations (3) Gen Ed Humanities Course (3) GE Elective (3) Management Elective (3)
Total (16)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3463 Manufacturing Ops I (3) 4433 Quality Control (3) Management Elective (3) Electronics Electives (6)	4020 Prof Cert Req (0) 4123 Industrial Supervision (3) 4223 Electronics Capstone (3) Management Electives (6)
Total (15)	Total (12)

Overall Total = 122 (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

Industrial Technology (Code 135)
Manufacturing Technology Option
Suggested Course Sequence#

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1101 Intro to Technology (1) 1113 English Comp I (3) 1203 Engineering Drafting (3) 1223 Technology & Society (3) 1513 College Algebra (3) Total (14)	1004 Biological Concepts (4) 1023 Comp/Info Access* (3) 1103 American Gov't (3) 1213 English Comp II (3) 2463 Business Stats <i>OR</i> 3413 Stat Methods (3) Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1514 Concepts of Phy Science (4) 1713 Basic Elec Science (3) 2413 Non-Metal Materials & Proc (3) 2513 Fabrication Proc I (3) Gen Ed Humanities Course (3) English Proficiency Exam** Total (16)	1004 General Chemistry (4) 2363 Intro to Microeconomics (3) 3263 Machine Drafting (3) 3523 Fabrication Proc II (3) GE Elective (3) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
1043 <i>OR</i> 1053 US History (3) 3113 Industrial Safety (3) 3463 Manufacturing Ops I (3) 3513 Material Test/Analy (3) Management Elective (3) Total (15)	3143 Technical Presentations (3) 3413 Production Processes (3) 3613 Power Systems (3) 4243 3D CAD – Solidworks (3) Gen Ed Humanities Course (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4433 Quality Control (3) 4514 Machine Tool Proc (4) GE Elective (3) Management Elective (3) Manufacturing Electives (4) Total (17)	4020 Prof Cert Req (0) 4123 Industrial Supervision (3) 4454 Comp Aided Manuf (CAM) (4) Management Electives (6) Total (13)

Overall Total = 122 (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

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	(580) 774-3040
Lisa Friesen	STF 354.....	lisa.friesen@swosu.edu	(580) 774-6025
Rita Hays.....	STF 347.....	rita.hays@swosu.edu	(580) 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

(Common 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
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, Interim 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.

Emergency Medical Services Minor

Health Science Minor

Health Science Minor for Sports Medicine

NURSING

B.S.N.

R.N. to B.S.N.

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES ALLIED HEALTH SCIENCES (Overview)

FACULTY

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<http://www.swosu.edu/alliedhealth/>

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

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: B.S. Health Science (Code 553)
Professional Programs (Consult advisor in one of the following areas concerning requirements and application information.)

Pre-Chiropractic	Pre-Dentistry
Pre-Medicine	Pre-Optometry
Pre-Osteopathic Medicine	Pre-Physician Assistant
Dr. Anne Pate - Advisor	

Pre-Occupational Therapist Assistant
Pre-Physical Therapy Assistant
Dr. Sharon Lawrence - PTA & OTA Program
Coordinator, Advisor

Pre-Communication Sciences
Pre-Dental Hygiene
Pre-Nuclear Medicine
Pre-Nutritional Sciences
Pre-Radiation Therapy
Pre-Radiography
Pre-Sonography
Jessica Young - Advisor
Shirley Venable - Advisor

B.S. Health Care Administration (Code 550)
Marcy Pye - Advisor
Dana Lloyd - Assistant Advisor

B.S. Health Information Management (Code 551)
Dana Lloyd - Director, Advisor
Marcy Pye - Assistant Director

Minors: Health Care Administration Minor (Code 550)
Health Data Analytics Minor (Code 551)
Health Science Minor for Sports Med (Code 552)
Health Science Minor (Code 553)
Emergency Medicine Services Minor (Code 554)

Masters: M.S. Healthcare Informatics & Information Management (Code 848)
Dana Lloyd, Advisor

Master of Science Healthcare Informatics & Information Management (Code 848)

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

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

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 Science Major

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	Nutritional Sciences
Chiropractor	Occupational Therapy
College of Dentistry	Optometry
Comm. Sci. & Disorders	Physical Therapy
Dental Hygiene	Physician Associate
Medical School	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 Science a valuable degree for seeking employment in a wide variety of health care settings.

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 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 the technology center. 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 the technology center. 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 "specialty" course 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 "specialty" 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 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 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 Communication6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

Select one course.

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

Human, Cultural, & Social Diversity3

PSYCH 1003 General Psychology

U. S. History3

Select one course.

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

American Government3

POLSC 1103 American Government & Politics

Science12

BIOL 1004 Biological Concepts
BIOL 2104 Human Anatomy*
BIOL 2304 Human Physiology*

Technical Occupational Support Courses6

PSYCH 2313 Developmental Psychology
ALHLT 2443 Medical Terminology

Technical Occupational Specialty Courses30

OTA 1013 Introduction to Occupational Therapy
OTA 1023 Kinesiology for OTA
OTA 1102 Therapeutic Media
OTA 2002 Health Care & Occupational Therapy Mgmt
OTA 2022 Fieldwork IA
OTA 2102 Therapeutic Activities
OTA 2113 Physical 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 Courses6

OTA 2203 Fieldwork IIA
OTA 2213 Fieldwork IIB

TOTAL HOURS72

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. Admission to the PTA "specialty" course program at the 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 PTA "specialty" 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 PTA'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 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.

NOTE: After completing the requirements for the degree, graduates will be eligible to take the national licensure examination for Physical Therapist Assistants.

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.**

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 Diversity3

PSYCH 1003 General Psychology

Natural Sciences..... 12

BIOL 1004 Biological Concepts w/lab
BIOL 2104 Human Anatomy*
BIOL 2304 Human Physiology*

U. S. History3

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 Courses7

KINES 2212 First Aid & CPR
ALHLT 2443 Medical Terminology
__2 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

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES HEALTH CARE ADMINISTRATION

FACULTY

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Phone: (580) 774-7103

Dana Lloyd, Assistant Advisor
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Phone: (580) 774-7149
<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 BUSINESS AND TECHNOLOGY: Accounting, Computer Science, Computer Technology, Entrepreneurship, Finance, Information Systems, Management, Marketing
- 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)

Health Care Administration Major

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS..... 40

WRITTEN COMMUNICATION6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

MATHEMATICS3

MATH 1513 College Algebra
or a higher numbered math course

U. S. HISTORY3

Select one course.

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

AMERICAN GOVERNMENT3

POLSC 1103 American Government & Politics

SCIENCE7-8

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
a higher numbered chemistry or physics course

HUMANITIES6

HUM 1XX3 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 DIVERSITY3

PSYCH 1003 General Psychology

COMPUTER PROFICIENCY0-3

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**

REQUIRED COURSES

Major Courses40

Major Courses

ALHLT 2453 Medical Terminology
ALHLT 3043 Health Statistics
ALHLT 3193 U.S. Healthcare System
ALHLT 4043 Healthcare Law & Ethics
ALHLT 3933 Healthcare Mgmt
ALHLT 3963 Healthcare Project Mgmt

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 Courses24

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:
MNGMT 3533 Organizational Behavior
MNGMT 4123 Managerial Ethics
ENTRP 3123 Legal Environment of Business

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
(3000/4000 courses)..... 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8
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

HEALTH CARE ADMINISTRATION (Code 550)

Suggested Course Sequence*

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (1) 1004 Biological Concepts (4) 1023 Comp/Info Access OR replacement if Proficiency met (3) 1113 English Comp I (3) 1513 College Algebra (3) xxx3 Humanities GE (3) Total (17)	1003 General Psychology (3) 1213 English Comp II (3) 2213 Principles of Financial Accounting (3) 2453 Medical Terminology (3) xxx3-4 Physical Science GE (3-4) Total (15-16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
2313 Principles of Managerial Accounting (3) 3193 The U.S. Health Care System (3) xxx3 Course in Minor (3) xxx3 History GE (3) xxx3 Humanities Ge (3) English Proficiency Exam*** Total (15)	1103 American Government and Politics (3) 1313 Public Speaking (3) 3233 Management (3) 3333 Human Resource Management (3) 4043 Healthcare Law & Ethics (3) Total (15)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3043 Health Statistics w/lab (3) 3113 Intro to MIS (3) 3933 Healthcare Management (3) 4123 Healthcare Revenue Cycle (3) xxx3 Course in Minor (3) Total (15)	3453 Healthcare Reimbursement (3) 3963 Healthcare Project Management (3) xxx3 Course in Minor (3) xxx3 Course in Minor (3) xxx3 Ancillary Elective (3) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3433 Dynamics of Organizational Management (3) 3363 Healthcare Compliance & Risk Management (3) 3974 HC Internship ³ (4) 4113 Healthcare Quality Measures (3) xxx3 Course In Minor (3) Total (16)	3122 Intro to Electronic Health Records (2) 3974 HC Internship ³ (4) xxx3 GE Elective (3) xxx3 Course in Minor (3) xxx3 Ancillary Elective (3) Total (15)

* 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

FACULTY

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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)

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. History3

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

Science8

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

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 Diversity3

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 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 Mngmt
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

HEALTH INFORMATION MANAGEMENT (Code 551)

Suggested Course Sequence*

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (1) 1004 Biological Concepts w/lab (4) 1113 English Comp. I (3) 1513 College Algebra (3) xxx3 GE Elective (3) xxx3 Humanities Elective (3) Total (17)	1003 General Psychology (3) 1023 Comp/Info Access (3) OR replacement if proficiency met 1213 English Comp. II (3) 2453 Medical Terminology (3) xxx3-4 Physical Science GE (3-4) Total (15-16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1103 American Government & Politics (3) 1313 Public Speaking (3) 3183 Cultural Competence in Healthcare (3) xxx3 History GE (3) xxx3 Humanities GE (3) English Proficiency Exam** Total (15)	3073 Diagnostics, Drugs & Therapeutics (3) 3704 Human Anatomy w/lab (4) 3933 Healthcare Management (3) 4043 Healthcare Law & Ethics (3) 4093 Epidemiology (3) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3033 Intro to Health Info w/lab (3) 3113 Intro to MIS (3) 4074 Pathophysiology (4) 4123 Healthcare Revenue Cycle (3) 4113 Healthcare Quality Measures (3) Total (16)	3043 Health Statistics w/lab (3) 3122 Intro to Elec. Health Records (2) 3453 Healthcare Reimbursement (3) 3963 Healthcare Project Management (3) 4023 Health Information Applications (3) 4051 Professional Practice (1) Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
3123 Adv. Elec Health Records (3) 3333 Coding I w/lab (3) 3363 Healthcare Compliance & Risk Management (3) 4051 Professional Practice (1) 4093 Health Data Informatics (3) 4103 Health Data Security (3) Total (16)	3343 Coding II w/lab (3) 4033 Health Information Mngmt w/lab (3) 4073 Health Data Analysis (3) 4082 HIM Professional Review (2) 4153 Management Practicum (3) (2 nd 8 weeks) Total (14)

* 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 SCIENCE

FACULTY

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Marcy Pye	SCI 202 C.....	marcy.pye@swosu.edu	(580) 774-7103

GOALS

The Bachelor of Science in Health Science 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 Science

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 Science 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 Science 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 SCIENCE MAJOR (Code No. 553)

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL GENERAL EDUCATION HOURSMin. 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 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
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..... 6

PSYCH 1003 General Psychology

XXXXX XXX3 GE Elective from Category I, II, or IV

Health Science Major

Required: Allied Health Science 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	4043	Healthcare Law & Ethics
ALHLT	3933	Healthcare Management
ALHLT	3963	Healthcare Project Mngmt
ALHLT	4093	Epidemiology
ALHLT	4081	Health Science Senior Summit
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	3363	Healthcare Compliance & Risk Management
HIM	3122	Introduction to the Electronic Health Record
HIM	4113	Healthcare Quality Measures
PHY	1044	Basic Physics I
PHY	1054	Basic Physics II
PSYCH	3213	Developmental Psychology
TECH	3143	Technical Presentations

Minor18-22

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 & sciences55

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

Min. Credit Hours (3000/4000 courses)

in major completed at SWOSU8

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 SCIENCE (Code 553)
Suggested Course Sequence***

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (1) 1004 Biological Concepts (4) OR 1054 Principles of Bio I w/lab 1113 English Comp I (3) 1401 Allied Health Careers (1) 1513 College Algebra (3) xxx3 Humanities GE (3) Total (15)	1003 General Psychology (3) 1004 Gen. Chemistry OR 1203 Chemistry I & 1252 Chemistry I Lab (4-5) 1023 Comp/Info Access (3) OR replacement if proficiency met 1213 English II (3) 2453 Medical Terminology (3) Total (16-17)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1063 U.S. History (3) 3183 Cultural Competence in Healthcare (3) 3193 The U.S. Healthcare System (3) 3704 Human Anatomy (4) xxx3 Course in Minor (3) English Proficiency Exam** Total (16)	1103 American Government (3) 1313 Intro to Public Speaking (3) 3904 Human Physiology w/lab (4) 4043 Healthcare Law & Ethics (3) 4093 Epidemiology (3) Total (16)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3933 Healthcare Management (3) xxx3 Course in Minor (3) xxx3 Course in Minor (3) xxx3 Humanities GE (3) Major Elective (3-4) Total (15-16)	3043 Health Statistics w/lab (3) 3963 Healthcare Project Management (3) xxx3 Course in Minor (3) xxx3 Free Elective or Professional Requirement (3) Major Elective (3-4) (Total 15-16)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4081 Health Science Senior Summit (1) xxx3 Course in Minor (3) Major Electives (9-12) Total (13-16)	xxx3 Course in Minor (3) xxx2 Free Elective or Professional Requirement (2) Xxx2-3 GE Elec from I/II/or IV (2-3) xxx3 Free Elective or Professional Requirement (3) Major Elective (3) Total (13-14)

*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 Science 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.

**Degrees Offered in the
COLLEGE OF PROFESSIONAL AND
GRADUATE STUDIES**

SCHOOL OF NURSING

Dr. Chad Kinder, Interim Dean
Dr. Marcy Tanner-Garret, Associate Dean

SCHOOL OF NURSING

Nursing – B.S.N.

Nursing – R.N. to B.S.N.

Nursing – M.S.N.

SCHOOL OF NURSING

FACULTY

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Samantha Kennedy	PAR 107	samantha.kennedy@swosu.edu	(580) 774-3092
Carie Strauch	PAR 141	carie.strauch@swosu.edu	(580) 774-3741
Marcy Tanner	PAR 141	marcy.tanner@swosu.edu	(580) 774-3178
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
M.S.N. Nursing

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.

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

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-

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.

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.

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 ~~127~~ 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 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. 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.

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**

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 (**required for 502 major**)
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**

Life Science **3-4**

BIOL 1004 Biological Concepts w/Lab

Physical Science **3-4**

CHEM 1004 General Chemistry w/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**

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).

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124

Minimum credit hours in the liberal arts & sciences

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

Nursing Major (Code No. 502)

Pre-Professional Requirements **24**

ALHLT 2453 Medical Terminology
ALHLT 4355 Microbiology
BIOL 3704 Human Anatomy
BIOL 3904 Human Physiology
NURS 2212 Introduction to Professional Nursing
PSYCH 2433 Psychological Statistics
OR ALHLT 3043 Health Statistics
PSYCH 3213 Developmental Psychology or a lifespan growth and development course

Professional Requirements **60**

MAJOR PROFESSIONAL

NURS 3126 Community Nursing
NURS 3126L Community Nursing Clinical
NURS 3156 Fundamentals of Nursing
NURS 3156L Fundamentals of Nursing Clinical
NURS 3236 Acute and Chronic Care I
NURS 3236L Acute and Chronic Care I Clinical
NURS 3256 Child Health Nursing
NURS 3256L Child Health Nursing Clinical
NURS 3273 Nursing Research
NURS 3283 Pharmacology
NURS 4143 Challenges Nurses in Today's HC Systems
NURS 4286 Nursing Leadership
NURS 4286L Nursing Leadership Clinical
NURS 4346 Acute and Chronic Care II
NURS 4346L Acute and Chronic Care II Clinical
NURS 4356 Family Health
NURS 4356L Family Health Clinical
NURS 4376 Psychosocial Nursing
NURS 4376L Psychosocial Nursing Clinical
NURS 4383 Elective
NURS 4383L Elective Clinical

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

R.N. to B.S.N. Pre-Professional Requirements 21-22

ALHLT 2453 Medical Terminology
ALHLT 4355 Microbiology
BIOL 3704 Human Anatomy
BIOL 3904 Human Physiology
PSYCH 2433 Psychological Statistics
OR ALHLT 3043 Health Statistics
OR NURS 4502 Statistics for Nursing Research
PSYCH 3213 Developmental Psychology
OR a lifespan growth and development course

Free Electives 3

Articulation credits 30-31

Professional Requirements R.N. to B.S.N. Students 30

NURS 4603 Bridging Nursing Paradigms†
NURS 4613 Nursing Statistics & Evidence-Based Practice
NURS 4623 Wellness Through Health Promotion
NURS 4633 Ethics and Caring
NURS 4643 Theory and Practice Elective
NURS 4653 Nursing Informatics
NURS 4663 Comm Nrsng Across the Hlth Continuum
NURS 4673 Contemporary Nursing Leadership
NURS 4683 Advanced Physical Assessment
NURS 4693 Issues & Concepts for Prof Nursing‡

† 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

FIRST YEAR	
FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orientation* (1) 1003 General Psychology (3) 1004 Biology Concepts w/Lab (4) 1043 or 1053 U.S. History (3) 1113 English Comp I (3) 1513 College Algebra (3)	1004 General Chem w/Lab (4) 1023 Comp/Info Access (3) 1213 English Comp II (3) 2453 Medical Terminology (3) xxx3 Humanities Course (3)
Total (17)	Total (16)

SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER
1033 World History (3) 1103 American Gov & Politics (3) 1103 Intro to Humanities OR 1033 World History (3) 2433 Psych Stats OR 3043 Health Stats (3) 3704 Human Anatomy w/Lab (4)	2212 Intro to Nursing (2) 3213 Developmental Psych (3) 3704 Human Phys w/Lab (4) 4355 Microbiology w/Lab (5) xxxx Elective (2-3)
Total (16)	Total (16-17)

THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER
3126 Community Nursing (6) 3156 Fundamentals of Nursing (6) 3283 Pharmacology (3)	3236 Acute and Chronic Care (6) 3256 Child Health Nursing (6) 3273 Nursing Research (3)
Total (15)	Total (15)

FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER
4143 Challenges Nurses in Today's HC Systems (3) 4346 Acute & Chronic Care II (6) 4356 Family Health (6)	3273 Nursing Research (3) 4286 Nursing Leadership (6) 4376 Psychosocial Nursing (6)
Total (15)	Total (15)

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

COLLEGE OF ARTS AND SCIENCES

MINOR PROGRAMS OF STUDY

American Indian Studies
Art
Art History
Biological Sciences
Chemistry
Communication Arts
Criminal Justice
Economics
English
Graphic Design
History
International Studies

Mathematics
Multidisciplinary Studies
Music
Physical Science
Physics
Political Science
Pre-Law
Public Relations
Spanish
Statistics
Tribal Administration

MINOR PROGRAMS OF STUDY IN THE COLLEGE OF ARTS AND SCIENCES

AMERICAN INDIAN STUDIES CODE 104

Required Courses..... 10-11

CATC	1111	Introduction to American Indian Studies
CATC	2133	Tribal Government I
CATC	1553	Literature of the American Indian

Three to four hours of required American Indian studies courses must be obtained from the following courses:

CATC	1204	Cheyenne Language I OR
CATC	1254	Arapaho Language I
CATC	1214	Cheyenne Language II OR
CATC	1264	Arapaho Language II
CATC	2203	American Indians Today

Electives..... 9-10

ACCTG	1123	Introduction to Accounting
ACCTG	2213	Principles of Financial Accounting
CATC	1001-4	Independent Study in American Indians
CATC	1011-4	Seminar in American Indian Studies
CATC	1214	Cheyenne Language II OR
CATC	1264	Arapaho Language II
CATC	1402	Cheyenne and Arapaho Constitution
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	2203	American Indians Today
CATC	2001-4	Independent Study in American Indians
CATC	2011-4	Seminar in American Indian Studies
CATC	2423	Tribal Economics
CATC	2603	Cheyenne & Arapaho History
ENTRP	1123	Introduction to Business
HIST	4353	History of Oklahoma
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..... 20

ART CODE 101

Required Art 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:

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:

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:

ART	3353	Clay Studio
ART	3383	Mixed Media
ART	3413	Sculpture Studio
ART	4253	Applied Design

Total..... 19

ART HISTORY CODE 106

Required Courses..... 18

Any 3000-4000 level Art History course

Total..... 18

BIOLOGICAL SCIENCES CODE 103

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 3604 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:

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 CODE 105

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 CODE 185

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 CODE 107

Required Courses..... 15

CRMJS	1113	Introduction to Criminal Justice
CRMJS	3163	Sociology of Deviant & Crim Behavior
CRMJS	3243	Comparative Criminal Justice Systems
CRMJS	4103	Juvenile Justice
CRMJS	4153	U.S. Corrections

Electives..... 3

CRMJS	1223	Intro to Law Enforcement
CRMJS	2503	Criminal Justice Administration
CRMJS	3353	The Criminal Mind
CRMJS	3803	Privatization of Criminal Justice
CRMJS	4143	Critical Issues in Criminal Justice
CRMJS	4333	Victimology
CRMJS	4913	Internship in Criminal Justice
SOCIO	3043	Racial and Cultural Minorities

SOCIO 4033	Advanced Analysis of Social Problems	18
Total.....		18

ECONOMICS CODE 154

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

ENGLISH CODE 112

Required Courses 12

ENGL 3603	English Grammar
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(American Literature – select *one* of the following)

LIT 3323	Modern Voices in American Literature
LIT 4553	Issues in American Literature

(English Literature – select *one* of the following)

LIT 4123	British Literature 1795-1950
LIT 4763	British Literary Heritage to 1800

(Advanced Writing – select *one* of the following)

ENGL 3473	Creative Writing of Fiction I
ENGL 3483	Creative Writing of Poetry I
ENGL 3553	Writing for the Workplace
ENGL 3663	Creative Nonfiction I
ENGL 4453	Advanced Composition
ENGL 4553	Technical Writing and Editing
ENGL 4653	Writing for Multimedia

Electives (Upper Level-LIT or ENGL) 8-9 hours

An English minor is encouraged to complete at least four hours of one foreign language. Additional hours are strongly recommended.

Total 20-21 hours

Writing Emphasis

Guided Electives (select four of the following)..... 12 hours

ENGL 3113	Contemporary Fiction
ENGL 3123	Contemporary Poetry
ENGL 3473	Beginning Creative Writing of Fiction
ENGL 3483	Beginning Creative Writing of Poetry
ENGL 3553	Writing for the Workplace
ENGL 3603	English Grammar
ENGL 4423	Introduction to Linguistics
ENGL 4453	Advanced Composition
ENGL 4473	Advanced Creative Writing of Poetry
ENGL 4483	Advanced Creative Writing of Fiction
ENGL 4553	Technical Writing and Editing
ENGL 4653	Writing for Multimedia
ENGL 4663	Creative Nonfiction

Two LIT courses (one must be 3000 or 4000) 6 hours

(Note: LIT 4463 Children's Literature does not count for credit in the English major)

Department-wide elective 3 hours

Total 21 hours

GRAPHIC DESIGN CODE 102

Required Courses 10

ART 1123	Foundations I
ART 1133	Foundations II
ART 1661	Computer Applications
ART 2133	Introduction to Graphic Design

Graphic Design Courses 9

ART 3513	Intermediate Graphic Design I
ART 3783	Intermediate Graphic Design II
ART 3853	Typographic Design
ART 3923	Advanced Graphic Design I
ART 4163	Portfolio

ART 4413	Advanced Graphic Design II	19
Total		19

HISTORY CODE 120

Required courses..... 18

HIST 1043 U.S. History to 1877

OR HIST 1053 U.S. History since 1877 (one not taken in G.E.)

Upper level American (nine hours)

Upper level European and/or World (six hours)

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

POLSC 2303	Comparative Politics
POLSC 3163	Prin of International Relations
POLSC 4303	International Organizations
POLSC 4253	International Law

Electives 9

Part B: Choose Two of the Following Courses:

ART 3613	History of Art I
ART 3653	History of Art II
ECONO 4963	International Economics
HIST 3193	The European Union
HIST 3603	20th Century World History
POLSC 4033	Government Internship
SPAN 3653	Interm Span Convers
LIT 4113	Modern World Lit

Total 21

MATHEMATICS CODE 134

Required Courses..... 13-14

MATH 1715 College Algebra & Trigonometry

OR MATH 1513 and MATH 1613

MATH 1834 Calculus I

MATH 2834 Calculus II

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.

Multidiscipline Area

Communication

Fine Arts and Humanities

Kinesiology, Parks &

Rec Mgmt, & Life Sci

Mathematics and Science

Behavioral/Social Science

Technology

Business

Education

Total 18

Sub-Disciplines

Communication Arts, Foreign Language, Language & Literature

Art, Communication Arts, Music, Literature, Philosophy, History, American Indian Studies

Kinesiology, PRM, Athletic Training,

Allied Health, and Life Sciences

Life and Physical Sciences, Allied Health, and Mathematics

Psychology, History, Criminal Justice, Economics, International Studies, Social Work, Political Science, Sociology (A minimum of 12 of the 18 hours must be 3000 or 4000 level courses)

Computer Science, Mathematics,

Technology, Physics

Accounting, Finance, Entrepreneurship

Education

MUSIC CODE 149

Required Courses	17
MUSIC 1013 Introduction to Music I	
OR 1103 Music and Culture	
MUSIC 1032 Introduction to World Music	
MUSIC 1213 Music Theory I	
MUSIC 1221 Aural Skills I	
MUSIC 2981 Principles of Conducting	
Applied music, principal area: 4 hours	
Secondary area: 2 hours	
Music ensembles: 2 hours	
(Minors must complete Level I of the applied music proficiency exam in their principal area.)	
Recital Attendance 4900 (minimum of three enrollments with passing grade)	
Electives	5
Select from the following:	
MUSIC 1313 Music Theory II	
MUSIC 1321 Aural Skills II	
MUSIC 2222 Recreational Music	
MUSIC 3101 Instrumental Conducting	
MUSIC 3151 Choral Conducting	
MUSIC 3353 History of Music I	
MUSIC 3403 History of Music II	
MUSIC 4213 Music Therapy III-Special Education	
MUSIC 4261 Intro to Music Technology	
Total	22

PHYSICAL SCIENCE CODE 157

Required Courses	20
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 3013 Organic Chemistry	
CHEM 3111 Organic Chemistry Lab	
*PHY 1044 Basic Physics I	
*PHY 1054 Basic Physics II	
*PHY 2145 General Physics I	
*PHY 2155 General Physics II	
PHY 3403 Modern Physics for Engineers	
PHY 3411 Modern Physics Lab	
PHY 3501 Physics Seminar	
Total	20

***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	
PHY 3403 Modern Physics for Engineers	
Electives (Physics)	9
(Contact department chair for list)	
Prerequisites	17
MATH 1715 College Algebra & Trigonometry	
MATH 1834 Calculus I	
MATH 2834 Calculus II	
MATH 3834 Calculus III	
Total	22

POLITICAL SCIENCE CODE 156

Required courses	12
Part A. CHOOSE FOUR OF THE FOLLOWING:	
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	
Electives	6
(Electives 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:	
POLSC 2623 Criminal Law & Procedure	
POLSC 4253 International Law	
POLSC 4613 Civil Rights/Liberties	
International Relations Concentration:	
POLSC 3163 Principles of International Relations	
POLSC 3353 Model United Nations I	
OR POLSC 3373 Model United Nations II	
POLSC 4303 International Organizations	
Urban & Minority Politics Concentration:	
POLSC 3343 Women & Politics	
POLSC 4233 Urban Politics & Election Systems	
Public Administration & Public Policy Concentration:	
POLSC 3363 Public Admin. Theory & Practice	
POLSC 4403 Public Policy Formation	
POLSC 4933 Government Internship	
Total	18

PRE-LAW CODE 169

Note: Political Science majors may not minor in Pre-Law

Part A. REQUIRED CORE COURSES:	15
POLSC 2623 Criminal Law & Procedure	
POLSC 2803 The Judicial Process	
POLSC 3003 Federal Constitution	
POLSC 3323 Legislative-Exec. Relations	
POLSC 4613 Civil Rights & Liberties	
Electives	3
Part B. CHOOSE ONE OF THE FOLLOWING COURSES:	
CRMJS 1113 Introduction to Criminal Justice	
CRMJS 2503 Criminal Justice Administration	
CRMJS 3243 Comparative Criminal Justice Systems	
CRMJS 4143 Critical Issues in Criminal Justice	
HIST 3103 Medieval England	
POLSC 4253 International Law	
Total	18

PUBLIC RELATIONS CODE 147

Required Courses	18
COMM 4813 Principles of PR	
COMM 4823 Writing for PR	
COMM. 4833 Principles of Advertising	
MRKTG 3143 Principles of Marketing	
MRKTG 3243 Promotional Strategy	
MRKTG 3443 Consumer Behavior	
Total	18

SPANISH CODE 180

Required Courses	19
SPAN 1154 Elementary Spanish II	
SPAN 2053 Intermediate Spanish I	
SPAN 2153 Intermediate Spanish II	
SPAN 3653 Intermediate Spanish Conversation	
SPAN 3553 Hispanic Life and Culture	
SPAN 3753 Readings in Spanish	
Electives	2-3
SPAN 3013 Spanish for Law Enforcement	
SPAN 3023 Spanish for Healthcare Professionals	
SPAN 3853 Intern Span Comp & Grammar	
SPAN 4001/2/3/4 Independent Studies	
SPAN 4011/2/3/4 Seminar in Spanish	
SPAN 4043 Advanced Spanish Conversation	
SPAN 4053 Adv Span Comp & Grammar	
SPAN 4373 Hispanic Literature	
SPAN 4473 Survey of Hispanic American Writers	
SPAN 4554 Studies in Span Abroad or Internship	
SPAN 4571 Senior Spanish Capstone	
SPAN 4923 Teachers Course in World Languages	
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)		
MATH 1834 Calculus I		
(OR MATH 2823)		
Electives		8-10
Statistics and Probability (9 hours)		
MATH (one hour) of Statistics Seminar		
Total		18

TRIBAL ADMINISTRATION		CODE 108
Required Courses		10-11
ACCTG 2213 Principles of Financial Accounting		
CATC 2062 Internship		
CATC 2413 Indian Self-Determ Contract Adm I		
Three to four hours of required American Indian studies courses must be obtained from the following courses:		
CATC 1204 Cheyenne Language I OR		
CATC 1254 Arapaho Language I		
CATC 1214 Cheyenne Language II OR		
CATC 1264 Arapaho Language II		
CATC 1413 American Indian Belief Systems		
CATC 2133 Tribal Government I		
Electives		9-10
ACCTG 2313 Prin of Managerial Accounting		
CATC 1011-4 Seminar in Tribal Administration		
CATC 2001-4 Independent Study in Tribal Admin		
CATC 1214 Cheyenne Language II OR		
CATC 1264 Arapaho Language II		
CATC 2103 Budget Operations		
CATC 2123 Intro to Tribal Administration		
CATC 2233 Tribal Government II		
CATC 2313 Indian Self-Determ and Education Assistance Act, amended 1994		
CATC 2513 Indian Self-Determ Contract Administration II		
CATC 2523 OMB Circulars (Common Laws)		
ENTRP 3423 Business Communications		
Total.....		20

COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

MINOR PROGRAMS OF STUDY

SCHOOL OF NURSING AND ALLIED HEALTH

Emergency Medical Services Minor
Health Care Administration Minor
Health Data Analytics Minor
Health Science Minor
Health Science 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

EMERGENCY MEDICAL SERVICES MINOR CODE 554

Required Courses	10
ALHLT 2045 Emergency Medical Services I	
ALHLT 2055 Emergency Medical Services II	
Electives: 9 hours selected from the following.....	9
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 3122 Wilderness First Aid AND	
ALHLT 3971 Health Care Field Experience (in ER setting)	
NURS 3283 Pharmacology	
NURS 4346 Acute & Chronic II (Substitutes for 4 hrs below)	
(Cardiac and Emer. Care & Field Experience)	
Total	19

HEALTH CARE ADMINISTRATION MINOR CODE 550

Required Courses	18
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

*ALHLT-3933 should be taken before ALHLT-3963

HEALTH DATA ANALYTICS MINOR CODE 551

Required Courses	22
Take courses in sequence indicated:	
ALHLT 3043 Health Statistics ¹	
ALHLT 4093 Epidemiology ¹	
HIM 3122 Intro to Elect Health Record ¹	
HIM 3123 Adv Electronic Health Record ² (Fall Only)	
HIM 4113 Healthcare Quality Measures ²	
HIM 4073 Health Data Analysis ³ (Spring Only)	
HIM 4023 Health Info Applications ³ (Spring Only)	
ALHLT 3971 Health Care Field Experience ⁴	
OR ALHLT 3861 Health Science Internship ⁴	
ALHLT 4001 Independent Study ⁴	
Total	22

¹ – Take in first semester

² – Take in second semester

³ – Take in third semester

⁴ – Take in fourth semester

HEALTH SCIENCE MINOR CODE 553

Required Courses.....	20
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

HEALTH SCIENCE FOR SPORTS MEDICINE MINOR CODE 552

Required Courses.....	24
ALHLT 1401 Allied Health Careers	
ALHLT 2453 Medical Terminology	
ALHLT 3043 Health Statistics w/lab	
ALHLT 3073 Diagnostics, Drugs & Therapeutics	
ALHLT 3183 Cultural Competence in Healthcare	
ALHLT 3193 U.S. Healthcare System	
ALHLT 4074 Pathophysiology	
OR BIOL 3904 Human Physiology w/lab	
BIOL 3704 Human Anatomy w/lab	
Total	24

MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

ATHLETIC COACHING (Non-Certification) CODE 167

Required Courses	11
KINES 2502	Care & Prevention of Athletic Injury
KINES 3443	Kinesiology & Anatomy
KINES 4283	Principles of Coaching
SPRTM 3523	Leadership in Sports
Elective Courses	7
KINES 1942	Techniques Applied to Individual Sports
OR KINES 1952	Techniques as Applied to Team Sports
KINES 4802	Theory of Coaching Football
KINES 4832	Theory of Coaching Basketball
KINES 4862	Theory of Coaching Baseball
KINES 4012	Theory of Coaching Volleyball
KINES 4122	Organization & Administration Athletics
KINES 4012	Weight & Circuit Training
KINES 4063	Legal Aspects of PE, Rec & Athletics
KINES 4073	Evaluation of Physical Education
SPRTM 4163	Sports Nutrition
PSYCH 4133	Psychology of Sports
Total	18

HEALTH AND WELLNESS CODE 166

Required Courses	8
KINES 1133	Wellness Concepts & Exer App
KINES 1153	Nutrition
OR SPRTM 4163	Sports Nutrition
KINES 2212	First Aid
Elective Courses	8
KINES 1153	Nutrition
OR SPRTM 4163	Sports Nutrition
KINES 3353	Health & Aging
KINES 3553	Kinesiology & Anatomy
KINES 4012	Weight & Circuit Training App
KINES 4533	Consumer Health Education
SPRTM 4573	Fitness Program Management
Activity Courses	2
KINES 1351	Bowling
KINES 1511	Physical Fitness
KINES 2151	Walking Fitness
Total	18

PARKS AND RECREATION MANAGEMENT CODE 168

Required Courses	2
PRM 2102	Foundations of Parks and Recreation
Choose from the following courses to complete the 16 hour required block:	
PRM 3663	Recreation Management
PRM 3702	Recreational Areas and Facilities Mngmt
PRM 4163	Community Recreation
PRM 4663	Outdoor Recreation
PRM 4773	Natural Resource Recreation Management
PRM 4993	Internship in Professional Recreation
Areas of Specialization (Choose five to six hours from a specific block)	
Aquatics Specialization	5-6
PRM 3152	SCUBA
PRM 3161	Lifeguarding
PRM 3162	Advanced SCUBA/SLAM
Outdoor Recreation Specialization	5-6
PRM 3113	Sailing, Canoeing, Hiking and Climbing
PRM 3122	Wilderness First Aid
PRM 3132	Wilderness Survival
PRM 3142	Advanced Survival
PRM 3423	Ropes Course Facilitation
PRM 3452	Advanced Ropes
PRM 3552	Backpacking
PRM 4012	Advanced Alpine Adventure

PRM 4012	White Water Rafting
PRM 4722	Alpine Adventure

Parks and Wildlife Law Enforcement Specialization	5-6
PRM 3122	Wilderness First Aid
PRM 3441	High Angle Rescue
PRM 4201	The Park Ranger
PRM 4211	Game and Fish Law
PRM 4221	Small Craft Safety
PRM 4812	Wildlife Mngmt
Wildland Fire Management Specialization	5-6
NRM 2103	Wildland Fire Management
NRM 2112	Advanced Firefighting Methods
NRM 2122	Ignition Operations
NRM 4802	Wildland Ecology
Total	21-22

PARKS AND WILDLIFE LAW ENFORCEMENT CODE 161

Required Courses	11
PRM 2102	Foundations of Parks and Recreation
PRM 4132	Wilderness First Aid
PRM 4201	The Park Ranger
PRM 4773	Natural Resource Recreation Mgmt
NRM 4172	Natural Resource Law
NRM 4211	Game and Fish Law
Choose nine (9) hours from the following courses	9
PRM 2201	Basic Handgun
PRM 3132	Wilderness Survival
PRM 3133	Emergency Response
PRM 3161	Lifeguarding
PRM 3441	High Angle Rescue
OR PRM 3452	Advanced Ropes
PRM 4011-4	Sem in Parks and Recreation Mngmt
PRM 4881	Tactical Carbine
NRM 4011-4	Sem in Natural Resource Mngmt
NRM 4812	Wildlife Management
NRM 4993	Internship in Parks & Wildlife LE (120 hours)

PSYCHOLOGY CODE 160

Required Courses	6
6 hours from the following:	
PSYCH 2423	Social Psychology
PSYCH 3333	Behavior Management
PSYCH 3363	Psychology of Personality
Electives	14-15
PSYCH 2423	Social Psychology
PSYCH 2433	Psychological Statistics
PSYCH 3201-4	Contemporary Problems in Psychology
PSYCH 3213	Developmental Psychology
PSYCH 3224	Research Methods
PSYCH 3233	Learning and 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 Chem Dependency Treatment
PSYCH 4123	Theories and Principles 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 4533	Language Development
Total	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

Required Courses.....	15
CRMJS 1113 Intro to Criminal Justice	
ALHLT 4043 Healthcare Law & Ethics	
*PSYCH 3323 Abnormal Psychology	
*PSYCH 4113 Issues in Chemical Dependency Treatment	
*PSYCH 4123 Theories & Principles of Psychotherapy	
Electives	5-6
ALHLT 4093 Epidemiology	
CRMJS 3163 Sociology of Dev/Crim Beh	
EDPSY 3433 Adolescent Psychology	
PSYCH 3333 Behavior Management	
PSYCH 3243 Cross-Cultural Psychology	
PSYCH 4313 Introduction to Clinical Psychology	
PHARM 4062 Substance Abuse & Addiction	
Total.....	20
*See Psychology Prerequisites	

CHILD DEVELOPMENTAL PSYCHOLOGY

CODE 163

Required Courses.....	12
EDPSY 3413 Child Psychology	
EDPSY 3433 Adolescent Psychology	
PSYCH 3333 Behavior Management	
PSYCH 4533 Language Development	
Electives	9
EDPSY 3653 Educational Psych	
PSYCH 3253 Psychological Tests	
PSYCH 3323 Abnormal Psychology	
PSYCH 3363 Psychology of Personality	
PSYCH 4313 Introduction to Clinical Psychology	
PSYCH 4013 Seminar in Child Psychology	
Total.....	21

SPORTS PSYCHOLOGY

CODE 148

Required Courses.....	12
KINES 4073 Evaluation in Physical Ed	
PSYCH 3213 Developmental Psychology	
PSYCH 4133 Psychology of Sports	
SPRTM 3533 Olympism & Olympics	
Electives	6-7
EDPSY 3653 Educational Psychology	
KINES 3433 Kinesiology & Anatomy	
KINES 4052 Sociology of Sports	
KINES 4234 Exercise Physiology	
KINES 4243 Therapeutic/Prescriptive Phys Ed	
KINES 4262 Motor Learning	
PSYCH 3233 Learning and Memory	
PSYCH 3243 Cross-Cultural Psychology	
PSYCH 3323 Abnormal Psychology	
PSYCH 3363 Psychology of Personality	
PSYCH 4333 Physiological Psychology	
Total.....	18

FORENSIC PSYCHOLOGY

CODE 159

Required Courses.....	12
PSYCH 2423 Social Psychology	
PSYCH 3323 Abnormal Psychology	
PSYCH 4323 Forensic Psychology	
CRMJS 1113 Introduction to Criminal Justice	
Electives	9
PSYCH 3253 Psychological Tests	
PSYCH 3363 Psychology of Personality	
PSYCH 4113 Issues in Chemical Dependency	
EDPSY 3433 Adolescent Psychology	
PRM 4343 Intro to Criminal Investigations	
CRMJS 3353 The Criminal Mind	
Total	21

SPORTS MANAGEMENT

CODE 150

Required Courses.....	15
SPRTM 3503 Sports Management	
SPRTM 3513 Sport Finance	
SPRTM 3523 Leadership in Sports	
PSYCH 4133 Psychology of Sports	
SPRTM 4533 Sport Information Management	
Electives	3
KINES 2242 Sports Officiating	
KINES 4052 Sociology of Sports	
KINES 4122 Organization and Administration of Athletics	
KINES 4383 Development of Programs, Facilities & Mngmt	
MRKTG 4133 Sports Marketing	
PRM 3663 Recreation Management	
PRM 3702 Recreation Areas and Facilities Mngmt	
PRM 4113 Risk Management in Recreation	
SPRTM 3533 Olympism and Olympics	
SPRTM 4001-4 Individual Study in Sports Management	
SPRTM 4132 Recreation and Sport Employment Law	
SPRTM 4152 Sports Management Statistics	
SPRTM 4163 Sports Nutrition	
SPRTM 4502 Rodeo Management	
SPRTM 4513 Golf Management	
SPRTM 4523 Sport Representation	
SPRTM 4573 Fitness Program Management	
Total	18

TACTICAL LEADERSHIP

CODE 146

Required Courses.....	12
TLD 2103 Military Science I (Basic)	
TLD 2203 Military Science I (Advanced)	
TLD 2113 Military Science II (Basic)	
TLD 2213 Military Science II (Advanced)	
Electives	6
TLD 2123 Military Science III (Basic)	
TLD 2223 Military Science III (Advanced)	
TLD 2133 Military Science IV (Basic)	
TLD 2233 Military Science IV (Advanced)	
PRM 3122 Wilderness First Aid	
PRM 3132 Wilderness Survival	
PRM 3133 Emergency Response	
PRM 3142 Advanced Wilderness Survival	
PRM 3152 SCUBA	
PRM 4011 Sem in PRM (Tactical Medicine)	
PRM 4012 Sem in PRM (Tactical Tracking)	
PRM 4231 Custody & Control	
PRM 4241 Firearm Safety	
PRM 4881 Tactical Carbine	
TLD 3112 Leadership Physical Fitness	
TLD 3122 Leadership Physical Fitness (Advanced)	
Total	18

Continued on next page

WILDLAND FIRE MANAGEMENT			CODE 116
Required Courses			9
NRM	2103	Wildland Fire Management	
NRM	2112	Advanced Firefighting Methods	
NRM	4352	Wildland Fuel Reduction	
NRM	4802	Wildland Fire Ecology	
Electives			9
PRM	3122	Wilderness First Aid	
PRM	3132	Wilderness Survival	
PRM	3133	Emergency Response	
PRM	3441	High Angle Rescue	
NRM	2122	Ignition Operations	
NRM	2132	Fireline Leadership & ICS	
NRM	2993	Intern in Wildland Fire Mgmt	
NRM	4001-04	Indep Study in NRM (Wildland Fire Mgmt)	
NRM	4172	Natural Resource Law	
NRM	4812	Wildlife Management	
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	CODE 202
Required Courses.....	15
ACCTG 2213 Principles of Financial Accounting	
ACCTG 2313 Principles of Managerial Accounting	
ACCTG 3313 Intermediate Accounting I	
ACCTG 3523 Income Tax Accounting I	
ACCTG 3713 Cost Accounting	
3000-4000 Level Accounting Elective.....	3
Total.....	18

COMPUTER SCIENCE	CODE 110
Required Courses.....	9
COMSC 1033 Computer Science I	
COMSC 1053 Computer Science II	
COMSC 3013 Computer Architecture	
OR COMSC 2413 Data Structures	
Computer Science Electives.....	9
1000/2000 level Computer Science Electives (0-3 hours)	
3000/4000 level Computer Science Electives (6-9 hours)	
Total.....	18

COMPUTER TECHNOLOGY	CODE 136
Required Courses.....	6
TECH 1713 Basic Electrical Science	
TECH 2713 Fundamental Electronics	
Electives.....	12
TECH 2813 Digital Devices	
TECH 3823 Industrial Electronics	
TECH 3833 Communications Electronics	
TECH 3843 Telecommunications	
TECH 4813 Networking & Distributed Controls	
TECH 4833 Microprocessors & Embedded Controls	
Total.....	18

ELECTRONICS	CODE 128
Required Courses.....	9
TECH 1713 Basic Electrical Science	
TECH 2713 Fundamental Electronics	
TECH 3823 Industrial Electronics	
Electives.....	9
TECH 2813 Digital Devices	
TECH 3833 Communications Electronics	
TECH 3843 Telecommunications	
TECH 4813 Networking & Distributed Controls	
TECH 4833 Microprocessors & Embedded Controls	
TECH 4843 Industrial Controls	
Total.....	18

ENTREPRENEURSHIP	CODE 217
Required Courses.....	12
ACCTG 2213 Principles of Financial Accounting	
ENTRP 3423 Business Communications	
MNGMT 3233 Management	
MRKTG 3143 Principles of Marketing	
3000-4000 Level Electives from Accounting*, Entrepreneurship, Finance, Management, or Marketing	6
Total.....	18

*Completion of ACCTG 2213 + 2313 needed in order to complete
3000/4000 level ACCTG coursework.

FINANCE	CODE 206
Required Courses.....	9
ACCTG 2213 Principles of Financial Accounting	
ACCTG 2313 Principles of Managerial Accounting	
FINAN 3343 Business Finance	
3000-4000 Level Electives in Finance	6
3000-4000 Level Electives from Accounting, Entrepreneurship, Finance, Math above College Algebra, or Computer Science above 1023	3
Total	18

FORENSICS	CODE 218
Required Courses.....	12
COMSC 3253 Intro to Computer Forensics	
COMSC 3853 Computer Forensic Analysis	
PSYCH 4323 Forensic Psychology	
PRM 4343 Intro to Criminal Investigations	
Electives.....	6
COMSC 1103 Intro to Information Security	
COMSC 2603 Network Security	
PSYCH 3323 Abnormal Psychology	
PSYCH 3253 Psychological Tests	
PRM 4404 Legal Issues	
Total	18

GENERAL TECHNOLOGY	CODE 130
Required Courses.....	15
TECH 1203 Engineering Drafting	
TECH 1713 Basic Electrical Science	
TECH 2413 Non-Metallic Materials & Processes	
TECH 2513 Fabrication Processes I	
TECH 3613 Power Systems	
Electives (Technology 3000/4000 level).....	3
Total	18

INFORMATION SYSTEMS	CODE 109
Required Courses.....	9
COMSC 1033 Computer Science I	
OR COMSC 1433 Visual Basic Programming	
COMSC 1103 Introduction to Information Security	
ENTRP 3113 Intro to MIS	
Computer Science Electives	9
1000/2000 level Computer Science Electives (0-3 hours)	
3000/4000 level Computer Science Electives (6-9 hours)	
Total	18

MANAGEMENT	CODE 213
Required Courses.....	12
MNGMT 3233 Management	
MNGMT 3333 Human Resource Management	
MNGMT 3433 Dynamics of Organizational Management	
MNGMT 3533 Organizational Behavior	
3000-4000 Level Elective in Management.....	3
3000-4000 Level Elective from Accounting, Entrepreneurship, Finance, or Marketing	3
Total	18

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

(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)

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 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. 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**

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. **Corequisite: 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 plans 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 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 socio-cultural 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, stereophotographs 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: 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**

PHIL 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. **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 2013

A self-paced study of Microsoft Access 2013 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 2013

A self-paced study of Microsoft Access 2013 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 2013

A self-paced study of Microsoft Access 2013 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 2013

A self-paced study of Microsoft Excel 2013 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 2013

A self-paced study of Microsoft Excel 2013 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 2013

A self-paced study of Microsoft Excel 2013 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 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 1901 BASIC 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 pages, stacking and layering objects, working with frames, and working with colors.

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 pages, 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 pages, 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, creating special effects with filters, adjusting colors, 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 2013

A self-paced study of Microsoft PowerPoint 2013 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 2013

A self-paced study of Microsoft PowerPoint 2013 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 2013

A self-paced study of Microsoft PowerPoint 2013 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 1901 BASIC PUBLISHER 2013

A self-paced study of Microsoft Publisher 2013 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 INTERMEDIATE PUBLISHER 2013

A self-paced study of Microsoft Publisher 2013 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 2013

A self-paced study of Microsoft Publisher 2013 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 1901 BASIC WORD 2013

A self-paced study of Microsoft Word 2013 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 INTERMEDIATE WORD 2013

A self-paced study of Microsoft Word 2013 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 2013

A self-paced study of Microsoft Word 2013 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.

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

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 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 draftsmanship 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.

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. F**

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 the 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 3313 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.**

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. **Prerequisites: COMM 1263 and COMM 2763**

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, libel, 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. 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. FE**

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. FO**

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. FE (BIOL 3053 and BIOL 3253 recommended).**

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. S**

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. SE**

BIOL 4604 TERRESTRIAL ECOLOGY

A study of terrestrial biomes with emphases 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. SO**

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 3053, 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, senior 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/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**

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**

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 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 of 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, Thevenin, 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 Schrodinger 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**

DEPARTMENT OF LANGUAGE AND LITERATURE

English

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. SE

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 is 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. FE

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. SO

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.

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.

Prerequisite: LATIN 1054. 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 communication 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.

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 3153 SURVEY OF SPANISH LITERATURE TO 1800

History of Peninsular Spanish literature through the 18th Century. Outstanding selections from each literary period. **Prerequisite: SPAN 2153. D**

SPAN 3253 SURVEY OF SPANISH LITERATURE SINCE 1800

History of outstanding examples of Peninsular Spanish literature from beginning of the 19th century to present. **Prerequisite: SPAN 2153. D**

SPAN 3353 SPANISH AMERICAN LITERATURE

Survey of outstanding examples of poetry, short story, essay and selections of drama and the novel from the beginning until the present. **Prerequisite: SPAN 2153 or equivalent. D**

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 4012-3 SEMINAR IN SPANISH

Group study of specified topic for undergraduate students. **Prerequisite: SPAN 2053 or equivalent. D**

SPAN 4043 ADVANCED SPANISH CONVERSATION

Course designed to continue the development of language skills with a focus on listening and speaking to increase vocabulary and conversational ability in realistic situations for the new millennium with emphasis on Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text; no English spoken. **Prerequisite: SPAN 3653. FO**

SPAN 4053 ADVANCED SPANISH COMPOSITION AND GRAMMAR

Intensive writing course to increase Spanish writing proficiency. Review of grammatical forms that typically cause problems for advanced student. Interactive methods used. **Prerequisite: SPAN 3853. FO**

SPAN 4373 HISPANIC LITERATURE

Study of Peninsular Spanish and Latin American literature from its beginnings to the present with readings or representative texts. Readings and assignments are mostly in Spanish. **Prerequisite: SPAN 3653 and SPAN 3753. F**

SPAN 4473 HISPANIC AMERICAN WRITERS

Students survey Hispanic American writers, life and culture from their origins to modern times. Readings and assignments are mostly in Spanish with representative texts from original works. Students engage in advanced topics of cultural significance. **Prerequisite: SPAN 3653 and SPAN 3753. SE**

SPAN 4551-4 STUDIES IN SPANISH ABROAD/INTERNSHIP

Immersion experience in Spanish-speaking culture with home-stay family whenever possible. Varying lengths of stay and location. Cross-cultural experiences require maturity, flexibility, and open-mindedness. Travel expenses, paid by student, may vary. Alternative is internship with native speakers dealing with selected projects. Approval required. **D**

SPAN 4570 SENIOR SPANISH CAPSTONE

Students review and refine listening, speaking, reading, and writing skills in the Spanish language while surveying Hispanic contributions of literary, artistic and international significance. Emphasis on preparedness to enter the work place. **S**

SPAN 4923 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. **D**

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. **SE**

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/CHAUCE

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. **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 4553 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 European contact through the time of 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, Spenser, 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 0114 FUNDAMENTALS OF ALGEBRA I

A course in beginning algebra, including real-number arithmetic rules, solving linear equations, percents, graphs of lines, polynomial arithmetic, units and dimensions, and general problem solving strategies. Successful completion removes math deficiency for enrolling in MATH 1143 OR MATH 1153 and is preparation for MATH 0133. **F, S, SU**

MATH 0133 FUNDAMENTALS OF ALGEBRA II

A second course in algebra, including factoring polynomials, solving polynomial and rational equations, solving equations involving radicals and rational exponents, completing the square and the quadratic formula, quadratic and radical functions, and complex numbers. **F, S, SU**

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:** MATH-0133, Department 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, SU

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, SU

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, SU

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 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**

MUSIC 1032 INTRODUCTION TO WORLD MUSIC

A study of the music of various non-western cultures throughout the world. **F, S**

MUSIC 1112 FUNDAMENTALS OF MUSIC

Basic course in music notation for students who cannot read music symbols. Open to all students and majors. **F, S**

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 rhythmic, 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.

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.

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 1321 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 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

American Indian Studies

CATC 1111 INTRODUCTION TO AMERICAN INDIAN STUDIES

A survey course intended to orient student to American Indian Culture and history. **F, S**

CATC 1204 CHEYENNE LANGUAGE I

Introduces students to the Cheyenne Language, its orthography, syntax, grammar, and pronunciation. Develops written and oral skills. **F**

CATC 1214 CHEYENNE LANGUAGE II

Continues the study of the Cheyenne Language, further examining its syntax, grammar, and pronunciation and developing written and oral skills. **Prerequisite:** CATC 1204. **S**

CATC 1254 ARAPAHO LANGUAGE I

Introduces students to the Arapaho Language, its orthography, syntax, grammar, and pronunciation. Develops written and oral skills. **F**

CATC 1264 ARAPAHO LANGUAGE II

Continues the study of the Arapaho Language, further examining its syntax, grammar, and pronunciation and developing written and oral skills. **Prerequisite:** CATC 1254. **S**

CATC 1402 CHEYENNE AND ARAPAHO CONSTITUTION

A selected study of the Cheyenne and Arapaho Constitution. **D**

CATC 1413 AMERICAN INDIAN BELIEF SYSTEMS

A selected study of American Indian belief systems from both historical and contemporary perspectives. **D**

CATC 1553 LITERATURE OF THE AMERICAN INDIAN

A study of oral traditions, fiction and non-fiction, beginning with creation accounts to the present with emphasis on the diversity of American Indian cultures and traditions. Emphasis is placed on writers from Oklahoma and the Southwest. **D**

CATC 1563 MUSIC OF THE AMERICAN INDIAN

A selected study of American Indian music. **D**

CATC 2001-4 INDIVIDUAL STUDY

Individual study of specified topic for undergraduate students. Credit one to four semester hours. **D**

CATC 2011-4 SEMINAR TOPIC

Group study of specified topic for undergraduate students. Credit one to four semester hours. **D**

CATC 2143 ART HISTORY OF THE PLAINS INDIAN

A study of American Indian art. **D**

CATC 2203 AMERICAN INDIANS TODAY

A study of contemporary American Indian life and culture. **D**

CATC 2062 INTERNSHIP: TRIBAL ADMINISTRATION

A designated period of practical experience devoted to serving an apprenticeship in tribal administration under the supervision of selected administrators. **Prerequisite:** Consent of instructor and approval of CATC administrative staff. **D**

CATC 2103 BUDGET OPERATIONS

This course will provide students with the budget's role in tribal government and key aspects of the budget process, including budget formulation, budget execution, revisions, supplemental funding, and emergency spending. Students will learn to establish goals and assess tribal needs, getting community input, and determine how to prepare an annual budget based on availability of funds. **D**

CATC 2123 INTRODUCTION TO TRIBAL ADMINISTRATION

This course is designed to provide students with an understanding of the day-to-day administration and overall program operations of tribal programs. Students will learn, discuss, and critique the daily business of government operations and insure goals and objectives are met by the tribe. **D**

CATC 2133 TRIBAL GOVERNMENT I

This course provides an overview of tribal governments and their relationship with the federal government, as well as current day-to-day tribal government functions. Students will learn and discuss the functions and structures of government, tribal constitution laws, tribal enrollment, tribal court systems, tribal election ordinances, the legislative systems, law making functions, and executive functions in tribal governments. **D**

CATC 2233 TRIBAL GOVERNMENT II

Continuation of CATC 2133 to include further discussion of government, tribal constitution laws, tribal enrollment, tribal court systems, tribal election ordinances, the legislative systems law making functions, and executive functions in tribal governments. **Prerequisite:** CATC 2133. **D**

CATC 2313 SELF-DETERMINATION CONTRACTS AND EDUCATION ASSISTANCE ACT

This course is designed to provide a basic understanding and knowledge on the contract administration process and procedures of the Indian Self-Determination and Education Assistant Act. Emphasis is on preparing a contract and grant application and its internal and external administrative procedures. Students will prepare, review, and discuss application content and process, statement of work and budget preparation. **D**

CATC 2413 SELF-DETERMINATION CONTRACTS ADMINISTRATION I

This course is designed to provide a basic understanding and knowledge on the contract administration process and procedures. Emphasis is on preparing a contract and grant application and its internal and external administrative procedures that governs Self-Determination Contract Administration. Students will prepare, review, and discuss application content and process, statement of work and budget preparation. **D**

CATC 2513 SELF-DETERMINATION CONTRACTS ADMINISTRATION II

This course is a continuation of CATC 2413 and is designed to be a "hands on" exercise in contract administration. Students will learn regulations to internal and external administrative procedures that govern Self-Determination Contract Administration. Students will prepare, review, and critique non-procurement contracts, documents, monitoring plan, program evaluations, and closeout of contracts. **Prerequisite:** CATC 2413. **D**

CATC 2523 OFFICE OF MANAGEMENT AND BUDGET CIRCULARS

This course is designed to provide the common rules for administration of grants and cooperative agreements, cost principles, and audit requirements of federal programs. Students will review, discuss, and learn the impact of each circular on Tribal Administration and management. **D**

CATC 2603 CHEYENNE AND ARAPAHO HISTORY

In depth study of Cheyenne and Arapaho people and their journey on the road of life. **D**

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 DEVIANT 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 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**

Economics

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**

Geography

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**

History

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. – 1989

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 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**

POLSC 2623 CRIMINAL LAW AND PROCEDURE

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

Along with Model United Nations I, explores the United Nations in action, represents different nations at the Midwest Model United Nations and hosts SWOSU Model United Nations. **Prerequisite: POLSC 1103. S, D**

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 4303 INTERNATIONAL ORGANIZATIONS

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. **F, S, SU**

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**

Sociology

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, orients 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

0 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. A 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 phoned 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 5301.

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 5234.

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 EXPERIENCE - INSTITUTIONAL

A full-time monthly practicum conducted in an institutional setting. The advanced student utilizes their previous coursework and training to demonstrate the application of pharmaceutical care. Drug policy management, distribution systems and administrative activities are also covered. **Prerequisites:** 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 A, B & C

Each is a full-time monthly practicum with supervised instruction in a patient care 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. **Prerequisites:** 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 pharmaceuticals.

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 post-graduate 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.

PHARM 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.

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**

SW 5860 Workshops, Seminars (Summer Institute)

University of Utah School on Alcoholism and Other Drug Dependencies
Credit provided by the University of Utah, College of Social Work.
Credits must be transferred to SWOSU to qualify.

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

ECONO 5653 ADVANCED MANAGERIAL ECONOMICS

ECONO 5763 ADVANCED BUSINESS STATISTICS

FINAN 5263 ADVANCED FINANCIAL MANAGEMENT

MNGMT 5xx3 MANAGEMENT ELECTIVE

MNGMT 5433 ADV HUMAN RESOURCE MANAGEMENT

MNGMT 5533 MNGMT & ORGANIZATIONAL BEHAVIOR

MNGMT 5643 ADV QUANT METHODS & OPER ANALYSIS

MNGMT 5923 BUSINESS STRATEGY & POLICY

MRKTG 5623 MARKETING STRATEGY

LEADERSHIP DEVELOPMENT PROGRAM ELECTIVE COURSES

PHARM 5432 LEADING TRANSFORMATIONAL CHANGE IN PHARMACY

Two-hour lecture. This course develops participant's knowledge and expertise in leading transformational change. Some change happens incrementally, while others are disruptive requiring transformation to achieve positive outcomes. The transformational change model is a systems approach that addresses human behavior, social systems, and organizational structures. Leaders of transformational change must develop skills in the development of resilience, creation of a compelling vision, collaboration, and development of a learning culture. **Prerequisite:** Second professional year standing.

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.

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

General Study

EDUC 3000/3012 STUDENT LEADERSHIP

The purpose of this course is to provide new and future students with learning opportunities to develop knowledge, attitudes and skills necessary to be effective in leadership positions both on campus and after graduation. Upon completion of the course, Orientation Leaders will have gained the skills necessary to facilitate and team teach 1001 Freshman Orientation. The course will utilize a variety of learning strategies and activities including lecture, discussion, reflection, guest lectures, student presentation, role-playing, community service, and simulation exercises. Course can be taken for zero credit or two hours credit.

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

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. FO

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

Scientific 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 and practice of scientific and research based 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 the Teacher Education Program.**

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: SPCED-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, FITNESS, & 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 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 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 to how these affect the perception of the sport, the rules of the sport, and those involved will be given. **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

Natural Resource Management

NRM 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 FIRELINE 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 2993 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 professional in a local, state, federal or non-profit agency. **Prerequisite:** NRM 2103.

NRM 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 professional in a local, state, federal or non-profit agency. **Prerequisite:** NRM 2103.

NRM 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 4352 WILDLAND FUEL REDUCTION

This course combines classroom instruction with practical field exercises to demonstrate effective fuel reduction on wildlands. **Prerequisite:** NRM 2103.

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 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.

Parks and Recreation Management

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 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 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 3122 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 3132 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 3133 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 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-rope 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. SU

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 3441 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 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 3552 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.

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

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.

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 4332 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.

Prerequisites: PRM 4301 and PRM 4322.

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.

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.

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.**

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.

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.

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.

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.**

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.

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.

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.

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.

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

Educational 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: PSYCH3224L 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)

Seminar 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 both 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**

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. A detailed journal and term report are required. Open only to students majoring in Accounting who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by 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

Computer Science

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, assembly 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-processing 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), elements of 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 multimedia 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 information 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 two hundred forty hours of employment with an approved employer in the area of computer information support or development. Reports, meeting with other interns, and a presentation to the faculty are required. **Prerequisites:** COMSC 2413 and departmental approval. 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 COMSC1023. 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 career 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 laws, 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, spreadsheet, database, and presentation software. **Prerequisite: COMSC 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 4333 INTERNSHIP IN ENTREPRENEURSHIP

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in Entrepreneurship who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite: Approval by 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:** MNGMT 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. A detailed journal and term report are required. Open only to students majoring in Finance who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by 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**

Management

MNGMT 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**

MNGMT 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:** MNGMT 3233. **S**

MNGMT 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**

MNGMT 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**

MNGMT 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:** MNGMT 3233. **F, S**

MNGMT 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:** MNGMT 3233. **F, S**

MNGMT 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**

MNGMT 4013 SEMINAR IN MANAGEMENT (TOPIC)

Group study of special topics in management. **Prerequisite:** Instructor and Advisor approval. **D**

MNGMT 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:** MNGMT 3233. **S**

MNGMT 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 MNGMT 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. A detailed journal and term report are required. Open only to students majoring or minoring in Management

who have completed 80 credit hours. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by 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 and credit management; 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 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**

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. A detailed journal and term report are required. Open only to students majoring or minoring in Marketing who have completed 80 credit hours. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by 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

The Department of Engineering Technology schedules all major courses at night on a rotating semester basis.

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 ELECTRICAL 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 3113 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**

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**

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**

MFET 3433 AUTOMATION/ROBOTICS

A survey of automated manufacturing and related activities. **F**

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 technologies 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**

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**

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**

MFET 4443 MATERIALS HANDLING AND FACILITY PLANNING

A study of the factors influencing location, layout, and planning of industrial facilities. **Prerequisite: TECH 1203. S**

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**

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: MATH 2823 and Senior standing. 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**

Aviation Education

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) 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 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 3971 HEALTH CARE FIELD EXPERIENCE

A designated period of focused shadowing devoted to observing and participating in activities within a specific health care profession. Students will serve under the mentorship of a licensed/certified practitioner in one health care field 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. Completed during breaks, interims or summer. Credit 1 hour. **Prerequisite: Instructor signature.**

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**

ALHLT 4043 HEALTHCARE LAW & ETHICS

Healthcare law, ethics, and privacy. An introduction to the U.S. Legal System with subsequent emphasis 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**

ALHLT 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**

ALHLT 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)**

ALHLT 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**

ALHLT 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**

Health Information Management Program 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:** ALHLT 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, 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 CAHIM 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 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 of 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 therapy assistant. **S**

NURSING

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

These courses are specifically designed for the licensed RN returning to school for a baccalaureate degree.

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 information and enhance evidence-based nursing practice, including the arenas of nursing administration, education, research, and direct patient care. Other areas of focus include ethical and legal issues associated with informatics. 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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