



2004

# Weatherford: Undergraduate Catalog 2004-2005

Southwestern Oklahoma State University

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## **Catalog 2004-2005**

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

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*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 Board of Regents of Oklahoma Colleges and the Oklahoma State Regents for Higher Education. 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 during the 2003-2004 academic year. The current tuition/fee schedule may be viewed at <http://www.swosu.edu/administration/busaffairs/>*

# University and Program Accreditations

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ASSOCIATION OF COLLEGIATE BUSINESS SCHOOLS AND PROGRAMS	Phone: (913) 339-9356 FAX: (913) 339-6226 Web site: <a href="http://www.acbsp.org">http://www.acbsp.org</a> E-mail: <a href="mailto:info@acbsp.org">info@acbsp.org</a>	7007 College Boulevard, Suite 420 Overland Park, Kansas 66211
AMERICAN CHEMICAL SOCIETY COMMITTEE ON PROFESSIONAL TRAINING	Phone: (202) 872-4589 FAX: (202) 872-6066 Web site: <a href="http://www.acs.org">http://www.acs.org</a> E-mail: <a href="mailto:cpt@acs.org">cpt@acs.org</a>	1155 16 <sup>th</sup> Street, N.W. Washington, D.C. 20036
OKLAHOMA COMMISSION FOR TEACHER PREPARATION (OCTP)	Phone: (405) 525-2612 FAX: (405) 525-0373 Web site: <a href="http://www.octp.org">http://www.octp.org</a> E-mail: <a href="mailto:octp@octp.org">octp@octp.org</a>	4545 N. Lincoln Blvd., Suite 275 Oklahoma City, Oklahoma 73105-3418
TECHNOLOGY ACCREDITATION COMMISSION (TAC) OF THE ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY (ABET)	Phone: (410) 347-7700 FAX: (410) 625-2238 Web site: <a href="http://www.abet.org">http://www.abet.org</a>	111 Market Pl., Suite 1050 Baltimore, Maryland 21202
ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS	Phone: (703) 917-9503 E-mail: <a href="mailto:info@abhes.org">info@abhes.org</a>	7777 Leesburg Pike, Suite 730 Falls Church, Virginia 22043
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NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC	Phone: (703) 437-0700 FAX: (703) 437-6312 Web site: <a href="http://www.art-accredit.org">http://www.art-accredit.org</a> E-mail: <a href="mailto:info@art-accredit.org">info@art-accredit.org</a>	11250 Roger Bacon Drive, Suite 21 Reston, Virginia 20190
AMERICAN MUSIC THERAPY ASSOCIATION, INC.	Phone: (301) 589-3300 FAX: (301) 589-5175 Web site: <a href="http://www.musictherapy.org">http://www.musictherapy.org</a> E-mail: <a href="mailto:amta@musictherapy.org">amta@musictherapy.org</a>	8455 Colesville Road Suite 1000 Silver Springs, Missouri 20910
NATIONAL LEAGUE FOR NURSING ACCREDITING COMMISSION	Phone: (800) 669-1656 ext. 362 FAX: (212) 812-0390 Web site: <a href="http://www.nlnac.org">http://www.nlnac.org</a> E-mail: <a href="mailto:rdesantis@nlnac.org">rdesantis@nlnac.org</a>	61 Broadway 33 <sup>rd</sup> Floor New York, New York 10006
OKLAHOMA BOARD OF NURSING	Phone: (405) 962-1800 FAX: (405) 962-1821 Web site: <a href="http://www.youroklahoma.com/nursing">http://www.youroklahoma.com/nursing</a>	2915 N. Classen Boulevard, Suite 524 Oklahoma City, Oklahoma 73106
ACCREDITATION COUNCIL ON OCCUPATIONAL THERAPY EDUCATION	Phone: (301) 652-2682 FAX: (301) 652-7711 E-mail: <a href="mailto:accred@aota.org">accred@aota.org</a>	P.O. Box 31220 Bethesda, Maryland 20824-1220
ACCREDITATION COUNCIL FOR PHARMACY EDUCATION	Phone: (312) 664-3575 FAX: (312) 664-7008	20 North Clark Street, Suite 2500 Chicago, Illinois 60602-5109
COMMISSION ON ACCREDITATION IN PHYSICAL THERAPY EDUCATION	Phone: (703) 706-3245	1111 North Fairfax Street Alexandria, Virginia 22314
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
COUNCIL ON SOCIAL WORK EDUCATION	Phone: (703) 683-8080 FAX: (703) 683-8099 Web site: <a href="http://www.cswe.org">http://www.cswe.org</a>	1725 Duke Street, Suite 500 Alexandria, Virginia 22314-3457
NATIONAL COUNCIL FOR THE ACCREDITATION OF TEACHER EDUCATION	Phone: (202) 466-7496 FAX: (202) 296-6620	2010 Massachusetts Avenue, N.W. Suite 500 Washington, D.C. 20036-1023
NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS (NCA))	Phone: (800) 621-7440 FAX: (312) 263-7462	30 North LaSalle Street, Suite 2400 Chicago, Illinois 60602-7462

## AMERICANS WITH DISABILITIES ACT

*The Americans with Disabilities Act (ADA) 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 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. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner 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 each semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University's documentation guidelines may be received in the Dean of Students Office, Room 214, Gen. Thomas P. Stafford Center, (580) 774-3024.*

## AFFIRMATIVE ACTION COMPLIANCE STATEMENT

*Southwestern Oklahoma State University in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans With Disabilities Act of 1990 and other Federal laws and regulations does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, and educational service.*

**SOUTHWESTERN OKLAHOMA STATE UNIVERSITY  
ACADEMIC CALENDAR 2004-2005**

**\*FALL SEMESTER 2004**

August 13	Friday .....	Freshman Orientation Clinic
August 16	Monday (8:30 a.m.) .....	Faculty Workshop
August 17	Tuesday .....	Enrollment for students who did not pre-enroll
August 18	Wednesday (8:00 a.m.) .....	Class work begins
August 23	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
August 23	Monday (as scheduled) .....	Monday night classes meet
August 27	Friday (4:30 p.m.) .....	Last day to add classes
August 31	Tuesday .....	Last day to drop a class or totally withdraw for a refund
September 6	Monday .....	Labor Day Holiday
October 20	Wednesday (10:00 p.m.) .....	Fall break begins
October 25	Monday (8:00 a.m.) .....	Class work resumes
November 23	Tuesday (10:00 p.m.) .....	Thanksgiving vacation begins
November 29	Monday (8:00 a.m.) .....	Class work resumes
December 13	Monday (as scheduled) .....	Final examinations for Monday night classes
December 9, 10	Thursday, Friday .....	Final examinations
13-15	Monday-Wednesday .....	Final examinations
December 16	Thursday (12:00 noon) .....	Final grades due
December 17	Friday .....	Semester ends

**\*SPRING SEMESTER 2005**

January 5	Wednesday .....	Enrollment for students who did not pre-enroll
January 6	Thursday (8:00 a.m.) .....	Class work begins
January 10	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
January 10	Monday (as scheduled) .....	Monday night classes meet
January 14	Friday (4:30 p.m.) .....	Last day to add classes
January 19	Wednesday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
March 11	Friday (5:00 p.m.) .....	Spring break begins
March 21	Monday (8:00 a.m.) .....	Class work resumes
May 2	Monday (as scheduled) .....	Final examinations for Monday night classes
April 28, 29	Thursday, Friday .....	Final examinations
May 2-4	Monday-Wednesday .....	Final examinations
May 5	Thursday (12:00 noon) .....	Final grades due
May 7	Saturday (10:00 a.m.) .....	Convocation
May 7	Saturday .....	Semester ends

**\*SUMMER SEMESTER 2005**

June 6	Monday .....	Enrollment for students who did not pre-enroll
June 7	Tuesday (8:00 a.m.) .....	Class work begins
June 9	Thursday (4:30 p.m.) .....	Last day to add classes
June 13	Monday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
July 4	Monday .....	Independence Day Holiday
July 6	Wednesday .....	Final examinations for the 1 <sup>st</sup> 4 week classes
August 2, 3	Tuesday, Wednesday .....	Final examinations for the 2 <sup>nd</sup> 4 week classes
August 4	Thursday (12:00 noon) .....	Final grades due
August 4	Thursday .....	Semester ends

*\*See early enrollment dates listed in class schedules.*

# SOUTHWESTERN OKLAHOMA STATE UNIVERSITY

## ACADEMIC CALENDAR 2005-2006

### \*FALL SEMESTER 2005

August 19	Friday .....	Freshman Orientation Clinic
August 22	Monday (8:30 a.m.) .....	Faculty Workshop
August 23	Tuesday .....	Enrollment for students who did not pre-enroll
August 24	Wednesday (8:00 a.m.) .....	Class work begins
August 29	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
August 29	Monday (as scheduled) .....	Monday night classes meet
September 2	Friday (4:30 p.m.) .....	Last day to add classes
September 5	Monday .....	Labor Day Holiday
September 7	Wednesday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
October 19	Wednesday (10:00 p.m.) .....	Fall break begins
October 24	Monday (8:00 a.m.) .....	Class work resumes
November 22	Tuesday (10:00 p.m.) .....	Thanksgiving vacation begins
November 28	Monday (8:00 a.m.) .....	Class work resumes
December 19	Monday (as scheduled) .....	Final examinations for Monday night classes
December 15, 16	Thursday, Friday .....	Final examinations
19-21	Monday-Wednesday .....	Final examinations
December 21	Wednesday (10:00 p.m.) .....	Semester break begins
December 22	Thursday (12:00 noon) .....	Final grades due
December 23	Friday .....	Semester ends

### \*SPRING SEMESTER 2006

January 11	Wednesday .....	Enrollment for students who did not pre-enroll
January 12	Thursday (8:00 a.m.) .....	Class work begins
January 16	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
January 16	Monday (as scheduled) .....	Monday night classes meet
January 20	Friday (4:30 p.m.) .....	Last day to add classes
January 25	Wednesday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
March 10	Friday (5:00 p.m.) .....	Spring break begins
March 20	Monday (8:00 a.m.) .....	Class work resumes
May 8	Monday (as scheduled) .....	Final examinations for Monday night classes
May 4, 5	Thursday, Friday .....	Final examinations
8-10	Monday-Wednesday .....	Final examinations
May 11	Thursday (12:00 noon) .....	Final grades due
May 13	Saturday (10:00 a.m.) .....	Convocation
May 13	Saturday .....	Semester ends

### \*SUMMER SEMESTER 2006

June 5	Monday .....	Enrollment for students who did not pre-enroll
June 6	Tuesday (8:00 a.m.) .....	Class work begins
June 8	Thursday (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
July 4	Tuesday .....	Independence Day holiday
July 5	Wednesday .....	Final examinations for the 1 <sup>st</sup> 4 week classes
August 1, 2	Tuesday, Wednesday .....	Final examinations for the 2 <sup>nd</sup> 4 week classes
August 3	Thursday (12:00 noon) .....	Final grades due
August 3	Thursday .....	Semester ends

*\*See early enrollment dates listed in class schedules.*

**SOUTHWESTERN OKLAHOMA STATE UNIVERSITY  
ACADEMIC CALENDAR 2006-2007**

**\*FALL SEMESTER 2006**

August 18	Friday .....	Freshman Orientation Clinic
August 21	Monday (8:30 a.m.) .....	Faculty Workshop
August 22	Tuesday .....	Enrollment for students who did not pre-enroll
August 23	Wednesday (8:00 a.m.) .....	Class work begins
August 28	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
August 28	Monday (as scheduled) .....	Monday night classes meet
September 1	Friday (4:30 p.m.) .....	Last day to add classes
September 4	Monday .....	Labor Day Holiday
September 6	Wednesday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
October 18	Wednesday (10:00 p.m.) .....	Fall break begins
October 23	Monday (8:00 a.m.) .....	Class work resumes
November 21	Tuesday (10:00 p.m.) .....	Thanksgiving vacation begins
November 27	Monday (8:00 a.m.) .....	Class work resumes
December 18	Monday (as scheduled) .....	Final examinations for Monday night classes
December 14, 15	Thursday, Friday .....	Final examinations
18-20	Monday-Wednesday .....	Final examinations
December 20	Wednesday (10:00 p.m.) .....	Semester break begins
December 21	Thursday (12:00 noon) .....	Final grades due
December 22	Friday .....	Semester ends

**\*SPRING SEMESTER 2007**

January 10	Wednesday .....	Enrollment for students who did not pre-enroll
January 11	Thursday (8:00 a.m.) .....	Class work begins
January 15	Monday (4:30-6:00 p.m.) .....	Enrollment for Monday night students who did not pre-enroll
January 15	Monday (as scheduled) .....	Monday night classes meet
January 19	Friday (4:30 p.m.) .....	Last day to add classes
January 24	Wednesday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
March 9	Friday (5:00 p.m.) .....	Spring break begins
March 19	Monday (8:00 a.m.) .....	Class work resumes
May 7	Monday (as scheduled) .....	Final examinations for Monday night classes
May 3, 4	Thursday, Friday .....	Final examinations
7-9	Monday-Wednesday .....	Final examinations
May 10	Thursday (12:00 noon) .....	Final grades due
May 12	Saturday (10:00 a.m.) .....	Convocation
May 12	Saturday .....	Semester ends

**\*SUMMER SEMESTER 2007**

June 4	Monday .....	Enrollment for students who did not pre-enroll
June 5	Tuesday (8:00 a.m.) .....	Class work begins
June 7	Thursday (4:30 p.m.) .....	Last day to add classes
June 11	Monday (4:30 p.m.) .....	Last day to drop a class or totally withdraw for a refund
July 3	Tuesday .....	Final examinations for the 1 <sup>st</sup> 4 week classes
July 4	Wednesday .....	Independence Day holiday
July 31-August 1	Tuesday, Wednesday .....	Final examinations for the 2 <sup>nd</sup> 4 week classes
August 2	Thursday (12:00 noon) .....	Final grades due
August 2	Thursday .....	Semester ends

*\*See early enrollment dates listed in class schedules.*

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Jim James; B.A., M.Ed., Ed.D. .... Dean, College of Associate and Applied Programs - Sayre Campus

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James Waites; B.S., M.Ed. .... Assistant to the President for Institutional Advancement  
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# FACULTY

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

RADWAN AL-JARRAH (1991) .....Dean  
College of Arts & Sciences; Professor; B.Sc., Baghdad University; M.Sc.,  
Ph.D., Ohio State University.

SUSAN AL-JARRAH (1995)..... Language Arts  
Instructor; B.A., Ohio State University; M.Ed., Southwestern Oklahoma  
State University.

GEORGE C. ALSBACH (1974).....Library  
Cataloging Librarian; B.A.Ed., East Central Oklahoma State University,  
North Texas State University; M.L.S., University of Oklahoma.

FRED ALSBERG (1991)..... Language Arts  
Assistant Professor; B.A., Columbia College (Illinois); M.F.A., University  
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KYLE D. ASHBY (2001)..... Chemistry and Physics  
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MELODY ASHENFELTER (1987). .... Business  
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma  
State University; Ed.D., Oklahoma State University; C.P.A.

ARDEN ASPEDON (2000)..... Allied Health Sciences  
Assistant Professor; B.S., M.S., Kearney State College; Ph.D., University  
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Nebraska.

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Instructor; B.S.Ed., M.Ed., Southwestern Oklahoma State University.

DONNA M. BARLOW (2003).....Social Sciences  
Assistant Professor; B.S., Oklahoma State University; M.S., M.S.,  
Oklahoma State University.

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

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

GARY L. BELL (1983) .....Technology  
Department Chair and Associate Professor; B.S., M.S., Southwestern  
Oklahoma State University; Ed.D., Oklahoma State University.

H. DAVID BERGMAN (1988) ..... Dean, College of Pharmacy  
Professor; B.S., University of Houston; M.S., University of Iowa; Ph.D.,  
Purdue University.

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

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

RUTH BOYD (2004).....Education  
Instructor; B.S., M.B.A., Southwestern Oklahoma State University.

DAVID D. BRADNEY (2002) ..... Technology  
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Automation Librarian; B.S., M.L.I.S., University of Oklahoma.

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# EMERITI

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Associate Professor; A.B., M.S., California State University (Humboldt);  
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LAMAR CRALL (1967) ..... Accounting/Finance  
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Assistant Professor; B.A., Southwestern Louisiana Institute; M.A., Louisiana State University, Western State (Colorado) College, University of Oklahoma.

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ALBERT GABRIEL (1956) .....Economics and Business  
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LOWELL V. GADBERRY (1981) .....Elementary/Secondary  
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THOMAS M. GRAY (1958) .....Biological Sciences  
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DUWAYNE J. GRAYBILL (1987) .....Technology  
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Texas Christian University; Ph.D., University of Arkansas.

DONALD I. HAMM (1951) .....Dean, School of Arts and  
Sciences; Professor of Chemistry; B.S., University of Oklahoma; M.S.,  
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VERLIN F. KOPER (1964) .....Mathematics Associate Professor; B.S., Southwestern Oklahoma State University; A.M., University of Missouri; Ed.D., Oklahoma State University.

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LESLIE M. LEVY (1971)..... Psychology Department Chair and Professor; B.S., University of Houston; M.S., Ph.D., University of Oklahoma.

JOHN LOFTIN (1981)..... Health, Physical Education, and Recreation; Instructor; B.S., West Texas State University; M.Ed., Southwestern Oklahoma State University.

JOHN A. LUDRICK (1967) .....Dean, School of Education and Dean of Graduate School; Bernhardt Professor; B.S.Ed., M.T., Southwestern Oklahoma State University; Ed.D., University of Oklahoma.

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RAYMOND L. McKELLIPS (1959) .....Mathematics Chair and Professor; B.S., Southwestern Oklahoma State University; M.S.Ed., M.A. Mathematics; Ed.D., Oklahoma State University.

VERDA C. McKELLIPS (1966) ..... Accounting Professor B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., University of Oklahoma.

DENNIS A. MESSMER (1968) ..... Allied Health Sciences Professor; B.S., M.S., South Dakota State University; Ph.D., Kansas State University.

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CAROLINE B. MITCHELL (1985) ..... Language Arts Assistant Professor; B.A., University of Oklahoma; M.A., National University of Mexico; Ph.D., University of Oklahoma.

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CHARLES NITHMAN (1970)..... Pharmacy Practice Professor; B.S., Oklahoma State University; B.S.; M.S., University of Oklahoma; Pharm.D., Mercer University.

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ELEANORE M. WAGGONER (1969) ..... English  
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Associate Professor; B.S., Southwestern Oklahoma State University;  
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DELENN L. WILLIAMS (1966) ..... Speech  
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KAY WILLIAMS (1984) ..... Secondary Education  
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# **SCHOOLS OF MEDICAL TECHNOLOGY**

**(12-Month Clinical Programs)**

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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 four 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; and a professional doctorate, the Doctor of Pharmacy (PharmD), 1998.

## MISSION AND PURPOSES

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 Board of Regents of Oklahoma Colleges. 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 is to provide educational opportunities in higher education that meet the needs of the state and region; contribute to the educational, economic, and cultural environment; and support scholarly activity. Major areas of study on the Weatherford campus, associate degree programs on the Sayre campus, the general education curriculum, and participation in student activities/organizations provide opportunities for students to obtain skills, knowledge, and cultural appreciation that lead to productive lives and effective citizenship.

The mission and the purposes of the University are accomplished through the following:

Insuring quality education, the University recruits qualified faculty without regard to national origin, race, gender, disability, age or religion. Faculty growth opportunities are provided through an organized faculty development program. Excellence in teaching, scholarship, and service are encouraged and recognized. An organizational and intellectual environment is provided that insures freedom of individual expression and inquiry, provides representative governance for all members of the University community, and promotes student/faculty interaction. An assessment program provides the basis for continuous evaluation and program improvement.

Meeting its commitment to student development, the University recruits qualified students without regard to national origin, race, gender, disability, age, or religion and provides a community that encourages participation in intellectual and physical activities and leadership development. A curriculum is provided that develops communication and analytical skills; a comprehension of the arts, humanities, and cultural diversity; and knowledge of the scientific/technological world and of our historical heritage. Student orientation, advisement, enrichment, and participation in organizations and activities contribute to student growth and development.

Fulfilling its role as a cultural and educational resource for western Oklahoma, the University provides distance learning opportunities, continuing education associated with career enhancement, personal development, and cultural growth. Performances, exhibitions, and research that enhance knowledge and enrich society are supported and services to communities are provided through academic departments and other university agencies.

Southwestern Oklahoma State University at Sayre enables the university to focus its mission on that campus to provide lower division programs and educational opportunities in higher education that meet the needs of the Sayre campus student body.

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:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Arts in Education
- Bachelor of Science in Athletic Training
- Bachelor of Science in Education
- Bachelor of Science in Health Information Management
- Bachelor of Science in Medical Technology
- Bachelor of Science in Nursing
- Bachelor of Business Administration
- Bachelor of Music
- Bachelor of Music Education
- Bachelor of Social Work
- Master of Business Administration
- Master of Education
- Master of Music
- 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:

**ADMINISTRATION BUILDING:** This building contains the offices of the President, Provost, Assistant Vice President for Academic Affairs, Business Affairs, Campus Operator, Human Resources, Institutional Advancement, Institutional Research, Mailroom, Payroll, Public Information, Registrar, and the Telecommunications Coordinator.

**AL HARRIS LIBRARY:** Located near the center of the campus, the library houses the books, periodicals, documents, and electronic databases of the University. Individual study carrels are provided for students with private study offices for faculty, seminar rooms for group use, and a 125 seat auditorium in the lower level.

**ART BUILDING:** This building contains functional classrooms, offices, and special facilities for art classes.

**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, CLEP, CPT, GRE, PCAT, and PRAXIS. Assessment offices are located in this building as well as the office of the Special Activities Director for Alumni and Foundation.

**ATHLETIC FIELDS:** Milam Stadium, the football field, has a seating capacity of approximately 10,000 and includes a quarter-mile track. Adjoining Milam Stadium to the south are practice fields and tennis courts. An intramural football field is 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. At the present time, all varsity baseball and softball games are played at the complex. Two soccer fields have been constructed for varsity and intramural competition for the fall of 2004. Future construction will be additional softball fields for intramurals, a cross country track, as well as a new building for concessions, offices for coaches, and public restrooms.

**BULLDOG APARTMENTS:** Located in the southwest area of the campus, these one-bedroom units provide housing for married students.

**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 Counseling and Career services. The New Student Orientation Program also resides in this location. Tutoring services are now provided by individual departments.

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

**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 west of Milam Stadium. The facility is used for conferences, continuing education courses, and special events.

**DEPARTMENT OF PUBLIC SAFETY:** 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.

**ECONOMIC AND BUSINESS DEVELOPMENT CENTER/UNIVERSITY NURSE:** Both the University Nurse and the Economic and Business Development Center are housed in this building located at North Bradley and Davis.

**EDUCATION BUILDING:** This two-story building houses the Dean of the College of Professional Studies and Graduate Studies, Department of Education, Graduate School Office, Social Work Program, Distance Learning, and ITV 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 was completed in 1986 and 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 Bernhard Lecture Hall, 10 classrooms, five computer labs, and two seminar rooms. The School of Business and the Office of Web Site Management occupy the third floor of the building. The second floor houses Information Technology Services, the Department of Computer Science, Admissions and Recruitment Office, Student Financial Services, Sponsored Programs, and the Dean of Students and Director of Student Activities.

**MEMORIAL STUDENT CENTER:** This building houses a cafeteria, a food court and adjoining recreation areas, a bookstore, a ballroom, lounges, club rooms, and banquet facilities.

**MUSIC BUILDING:** This building includes facilities for practice rooms, as well as large rehearsal rooms and classrooms.

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

**RANKIN WILLIAMS HEALTH AND PHYSICAL EDUCATION BUILDING:** This building houses a basketball gymnasium with a seating capacity of 3,000, a swimming pool, physical education classrooms and offices, and dressing rooms for athletic teams and classes. An addition to the building, completed in 1982, provided a second gymnasium and facilities for the Department of Psychology.

**RESIDENCE HALLS:** There are two residence halls for women; Stewart Hall and Oklahoma Hall. There are three men's residence halls: Neff Hall, Jefferson Hall, and Rogers Hall. The office for the Director of Residence Life is located in the basement 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, Department of Biological Sciences, the Department of Social Sciences, and the School of Allied Health Sciences. It also contains an auditorium. 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.

**TECHNOLOGY COMPLEX:** Two buildings in the northeast quadrant of the campus house the Department of Technology.

**TENNIS COMPLEX:** A lighted, six-court tennis complex located west of the health and physical educational building. The community of Weatherford has use of the courts at designated hours. Courts are open to the public on weekends.

**Y CHAPEL:** The native stone structure was built in 1941. Recently renovated, it serves as a picturesque reminder of an earlier period. The chapel now serves as the home of University historical documents and other memorabilia.

## **RESIDENCE LIFE HOUSING INFORMATION AND REGULATIONS**

The housing program at Southwestern Oklahoma State University holds an important position in the university's concern for developing the whole student in an atmosphere of high personal integrity and responsibility and a serious commitment to learning. Students living together share with each other an awareness of university life in a setting conducive to these intended goals.

### **RESIDENCE HALLS**

The University residence halls provide on-campus housing for a maximum of 1225 students. Oklahoma and Stewart Halls are for women, and Jefferson, Neff, and Rogers Halls are for men. Each room is air-conditioned and comes with two twin size beds, two dressers, two desks, two chairs, and two closets. Each building has common lobbies, bathrooms, laundry facilities, and vending machines. Each residence hall has a residence hall director who resides in the building. In addition, each floor has resident advisors to serve in the buildings. Reserving a room can be accomplished by completing a room contract and making a \$60.00 deposit. Students are held responsible for damages (beyond that of normal wear and tear) to University property and are assessed for the cost of repairs or replacement.

The cost of a room is \$650 for a semi-private room and \$1,100 for a private room per semester. This cost includes utilities, local telephone service, local cable service, and wireless internet. Meal plans range from 7 to 19 meals per week costing from \$690.00 to \$925.00 per semester. (Rates are subject to change.) All residence hall contracts are binding for the academic semester in which the student wishes housing. These contract periods are per semester.

### **MARRIED STUDENT HOUSING BULLDOG APARTMENTS**

There are 32 University-owned one-bedroom apartments available to married and single parent full-time students. All of these units are unfurnished. Rent is \$220 a month (utility bills paid). Inquiry should be made in the office of the Director of Residence Life. (Rates are subject to change.) The Residence Life Department is located in 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). A student's registration is complete only when all fees are paid or when payment arrangements have been made with the Business Office (ADM 111, 580-774-3018)

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

Rates shown are per semester hour.

## LOWER DIVISION (1000-& 2000-level courses)

Resident Students .....	\$91.05
Non-Resident Students .....	\$221.05

## UPPER DIVISION (3000-& 4000-level courses)

Resident Students .....	\$91.05
Non-Resident Students .....	\$221.05

## GRADUATE (5000-level courses)

Resident Students .....	\$111.05
Non-Resident Students .....	\$266.05

\*Tuition rates include the following special fees per credit hour:  
Assessment Fee - \$1.00, Library Resources Fee - \$2.25, Facility Fee - \$7.30, Student Activity Fee - \$5.15, Technology Service Fee - \$7.00; Graduation and Records Fee - \$.35; Cultural and Rec. Services Fee - \$1.00

## CHARGES FOR SPECIAL SERVICES

ACT Residual Exam .....	\$35.00
Application Fee.....	\$15.00
Art Supplies Fee (selected courses).....	\$30.00/\$50.00
Audit (without credit), each semester hour .....	same charge
..... as tuition	
Biology Lab Fee.....	\$3.00 per credit hour
Biology Field Trip Fee (selected courses).....	\$50.00
CLEP Exams.....	\$70.00
Electronic Media Fee (telecourses, per semester hour).....	\$5.00
(in addition to tuition cost per semester hour)	
Freshman Orientation Fee.....	\$5.00
Health Fee (Full-time Weatherford campus).....	\$10.00
(summer semester).....	\$5.00
Interactive Video Course Fee.....	\$20.00
Remedial Course Fee:	
(per semester hour, in addition to regular tuition).....	\$20.00
Safety Services Fee (per semester).....	\$5.00
Science Laboratory Course .....	Cost of breakage
Art, Technology, Instructional Media. ....	Cost of
..... material used	
Student Identification Card (per term).....	\$1.50
Web-based Course Fee.....	\$20.00
Pharm.D. Lab Fee .....	(Fall/Spring) \$100.00
..... (Summer)	\$50.00

## Nursing Clinical/Laboratory Fee

Nursing students are required to pay a \$50.00 clinical/laboratory fee in each fall and spring semester and a \$25.00 clinical/laboratory fee in the summer term. R.N. challenge students will be assessed a one-time clinical/laboratory fee of \$50.00.

## APPLIED MUSIC CHARGES

Private lessons in music, (in addition to tuition)

Music majors, minors, per semester hour.....	\$50.00
Non-music majors, per semester hour .....	\$100.00
Semi-private music lesson fee, per semester hour.....	\$25.00

Enrollment priority in private lessons is given to majors. Enrollment in applied music is by permission of the department.

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

## REFUNDS

Refunds for approved withdrawals from the institution (see current class schedule for calendar dates)

During the first ten days of a regular semester, or during the	
first five days of a summer semester.....	85%
After ten class days of a regular semester, or after five class	
days of a summer semester .....	No Refund
Classes dropped after ten class days of a regular semester or	
five class days of a summer semester.....	No Refund

Any student, who totally withdraws from the University enrollment during the defined add/drop period shall be charged an administrative amount of 15% of the total tuition and fees assessed to that student, excluding non-resident tuition. After the add/drop period, the charge shall be 100% of the total tuition and fees assessed to that student, including non-resident tuition.

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

# SERVICES, ACTIVITIES & ORGANIZATIONS

## THE AL HARRIS LIBRARY

The Al Harris Library, named in honor of a former University president, is a major resource of the University. It serves a vital role in research, which occupies a significant place in the life of the university.

The library building is centrally located on the campus. It is open seven days a week (84.5 hours a week). Open stacks and loans of library materials make the library resources easily accessible to students and faculty. The reference desk is staffed by faculty librarians to assist both students and faculty.

The SWOSU Library has 292,000 bound volumes and subscribes to 1,300 periodicals. The collection is expanded by 1,000,000 microforms. A partial U. S. Government and state document depository, the Library has approximately 40,000 documents.

Interlibrary loan service and library instruction sessions on research skills and information literacy are also available.

## HEALTH SERVICES

The University employs a registered nurse who sees students, staff and faculty for health related needs and concerns. Immunizations appropriate for the college population are available, and allergy shots and other medications may be administered with a doctor's order. The University physicians see a limited number of students referred by the University Nurse during their regular office hours. To qualify for University physician services, students must be enrolled in 12 or more credit hours, have a completed health form on file in Student Health Services and pay a \$5.00 co-pay per visit to Student Health Services. Student Health Services is located at the intersection of Bradley and Davis and is open Monday through Friday, 8:00 a.m. - 4:00 p.m, when classes are in session.

## ADMISSIONS

The Admissions 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.

## 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.

## NEW STUDENT ORIENTATION/ENROLLMENT

All freshmen are required to participate in New Student Orientation. NSO includes enrollment sessions prior to the beginning of the fall semester in which students receive academic advisement and enroll for the fall semester; Mass Orientation, a SWOSU tradition where students meet as an entire class; and an eight-week freshman orientation course. More than 30 student Orientation Leaders (OLs) assist in all aspects of the program to help new students make a smooth transition into college life at SWOSU.

For more information, contact the New Student Orientation Office in the Burton House (580) 774-3233 or e-mail [swosuol@swosu.edu](mailto:swosuol@swosu.edu).

Transfer students may attend a New Student Program on the first day of class in the fall or spring semesters. Watch for signs early in the semester for the exact time and location.

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

## CAREER SERVICES

Southwestern Oklahoma State University provides career and placement services for all seniors and alumni. Career Services also provides a number of services to assist students in selecting a major, securing internships, summer work opportunities and full-time employment upon graduation. Students should register with the office early in their senior year. Some of the services include resume writing, mock interviews, on-campus interviews, resume referrals, job listings, company research material and three career fairs. Visit Career Services at [www.swosu.edu/careers](http://www.swosu.edu/careers) for complete details or visit the office in the Burton House south of the Al Harris Library.

## PUBLIC INFORMATION

The Public Information 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. The office also assists in the promotion of interscholastic events and other University projects on and off campus.

## PUBLIC SAFETY

SWOSU maintains a Department of Public Safety pursuant to authority granted by Statutory Law of the state of Oklahoma (74 OSA 360.11). Police officers of the SWOSU Department of Public Safety are bona fide peace officers, bonded and commissioned by the Board of Regents of Oklahoma Colleges. The SWOSU Department of Public Safety has the responsibility of enforcing state law and all regulations of the University. This department is also responsible for University safety, OSHA regulations, hazard communications, workers compensation, and risk management.

## 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.

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 in the fall, as well as an Enrollment Report each semester.

The School of Business has a quarterly publication *The Great Plains General Business Index* which measures economic activity for nine southwest Oklahoma counties. The index provides a numerical gauge of economic activity covering the entire spectrum of the regional economy. A copy is provided free for those who request it.

The School of Education publishes the *Student Teaching Handbook*.

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

*Channel One* is an annual publication of writings from Freshman English classes of the previous year. It is used as a text in Freshman English classes.

*Chapbook* is an anthology of student and faculty writing published by the Language Arts Department.

*The Mayfly Newsletter* is published by the Department of Biological Sciences with support from SWOSU Publications.

The Department of Music publishes a semiannual alumni newsletter.

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

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

The Office of the Dean of Students publishes the *Student Handbook*.

*The Faculty Handbook* is published by the Office of the Provost.

*The Staff Handbook* is published by the Human Resources Office.

*The University Catalog* is the responsibility of the Assistant Vice President for Academic Affairs.

*Westview* is a journal of western Oklahoma and is published with support from SWOSU Publications.

#### 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 COUNSELING SERVICES

Student Counseling Services provides academic, career, and personal counseling to increase student success. Services include computerized career decision-making, career information, academic support, tutoring, and skills development seminars.

#### STUDENT FINANCIAL SERVICES

The Student Financial Services Office coordinates, monitors and records scholarship data from all sources in the student file. 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.

#### DEAN OF STUDENTS

Major functions and responsibilities of the Office of the Dean of Students include the supervision of student health services and student counseling. Areas of direct responsibility include student organizations and activities, student ombudsperson, accommodations for students with documented disabilities, student conduct, student appeals, parental contacts, verification of student records and oversight of the Student Government Association. Health insurance for international students is coordinated through this office.

#### TESTING SERVICES

The Assessment Center serves as a clearinghouse for students wishing to take advanced standing examinations. The advanced standing plan at Southwestern Oklahoma State University 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.

#### 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 available in the Registrar's Office.

#### VOCATIONAL REHABILITATION

The State Board of Vocational Rehabilitation maintains an office on the Southwestern Oklahoma State University campus. Guidance and financial assistance is provided to eligible physically-handicapped students. Contact the Registrar's Office for information.

#### STUDENT ORGANIZATIONS

All students are encouraged to become active in one or more of the following campus organizations:

**Accounting/Finance Club:** Organization to develop interest and understanding in the field of accounting and finance.

**Alpha Alpha Sigma:** Promotes interest and understanding of health care administration field.

**Alpha Phi Omega:** National service fraternity to bring opportunities to campus.

**Alpha Phi Sigma:** Honorary scholastic society to promote and reward academic excellence.

**Alpha Psi Omega:** National honorary dramatic fraternity.

**American Society of Health Systems Pharmacists:** A national professional organization for students interested in pharmacy health systems.

**Baptist Student Union/Baptist Collegiate Ministry:** Center to promote Christian growth and fellowship.

**Biology Club:** See Tri-Beta.

**Beta Beta Beta:** See Tri-Beta.

**Black Student Association:** Organization to raise black awareness for every race.

**Campus Crusade for Christ:** An interdenominational Christian fellowship.

**Catholic Student Association:** Social and service club for Catholic students.

**Cheerleaders:** Eight students selected to support athletic activities.

**Chemistry Club/American Chemical Society:** Social organization to promote interest in chemistry.

**Chi Alpha Gamma Delta:** Assembly of God student association.

**Church of Christ Student Center:** Student organization for Church of Christ students.

**Coalition for the Promotion of Peace:** Organization whose main purpose is to promote peace.

**Collegiate Oklahoma Music Teachers Association:** Organization to promote music education throughout school, community, and world.

**Computer Club:** Professional organization to promote interest in computer science.

**Criminal Justice Students' Association:** To promote the interest of criminal justice, alert students of career opportunity, and to promote fellowship and scholarship.

**Delta Mu Delta:** National Honor Society in Business Administration.

**Fellowship of Christian Athletes:** Social Christian organization for coaches and athletes.

**Fellowship of Christian Pharmacists:** FCP is an active organization of pharmacy students who join to show and express their love for God within the context of the College of Pharmacy. FCP is open to all students who would like to engage in a fellowship of caring, devoted disciples.

**Gamma Delta Kappa:** Women's honor society devoted to public service.

**Graphic Design Student Association:** Organization to promote student exposure to graphic design professionals and their work.

**Health Professions Club:** Organization to inform and present the opportunities that are available within the health care professions.

**History Club:** Student organization to promote interest in history.

**Information Systems Association:** An organization geared towards information systems that gives students a service opportunity.

**Kappa Delta Omega:** Social organization to provide an accepted environment for young women.

**Kappa Delta Pi:** Society in professional education.

**Kappa Epsilon:** Membership in this professional fraternity is limited to students enrolled in the College of Pharmacy. The purpose is to encourage and promote the social and professional advancement of women in pharmacy.

**Kappa Gamma Beta:** Organization to provide school spirit and to add to the Greek life at SWOSU.

**Kappa Kappa Psi:** Organization to support college band and the Music Department.

**Kappa Mu Epsilon:** Honor society for students interested in mathematics.

**Kappa Phi:** National sorority for young women that concentrates on service and learning.

**Kappa Psi Pharmaceutical Fraternity:** A national professional pharmaceutical fraternity, Kappa Psi objectives are to advance the profession of pharmacy and to promote leadership and scholarship among its members.

**Kappa Sigma:** International men's social fraternity.

**Latter Day Saints Student Association:** Association for religious and social activities.

**Marketing/Management Club:** Organization for business majors to enhance knowledge in the areas of marketing and management.

**Mu Phi Epsilon:** Professional international music sorority.

**Mu Rho Alpha:** Medical Record Administration student organization.

**Music Educator's National Conference:** Professional organization to promote opportunities for the growth and advancement of music education.

**Music Therapy Student Association:** Organization to promote the profession of music therapy.

**NCPA Student Chapter:** This student organization is devoted to the professional and ethical advancement of pharmacy students who have a primary interest in independent community pharmacy practice. This organization is affiliated with the National Community Pharmacists Association (NCPA).

**Native American Club:** Promote knowledge of cultural heritage and support service for the Native American Youth.

**Organization of Student Athletic Trainers:** Organization that is separate from athletics yet works with athletics and any other student or faculty members who need assistance.

**Phi Alpha Delta:** Pre-Law fraternity.

**Phi Alpha Honor Society:** Honor society in the field of social work.

**Phi Alpha Theta:** International honor society for students interested in history.

**Phi Beta Lambda:** Professional organization for business students.

**Phi Delta Chi:** A national professional and social fraternity in pharmacy, Phi Delta Chi has as its objectives service to the College of Pharmacy and the providing of social life for its members. Students enrolled in pharmacy are eligible to join.

**Phi Lambda Sigma:** A national pharmacy leadership society with the purpose of promoting the development of leadership qualities among pharmacy students.

**Phi Mu Alpha Sinfonia:** Professional music fraternity.

**Physics/Engineering Club:** Professional organization for students interested in physics, engineering, and related sciences.

**Pi Kappa Delta:** Speech fraternity created to promote, encourage, and improve communication skills.

**Pine Acres Church College Ministry:** Ministry to promote spiritual development and to provide wholesome fellowship.

**Political Science Association:** Student and faculty organization to promote fellowship and scholarship.

**Pom Pon Squad:** Organization to generate school spirit.

**Psychology Club:** Student and faculty professional and social association.

**Residence Hall Association:** Organization to provide additional social activities for dormitory residents.

**Rho Chi Society:** Membership is limited to men and women who have displayed academic excellence, a capacity for achievement in the science and art of pharmacy and the allied sciences, and strength of character, personality, and leadership. Students ranking in the highest 20 percent of the class, having achieved a minimum grade point average of 3.00 in at least seven semesters of the required curriculum, are eligible for election to membership.

**Sigma Sigma Chi:** Organization to promote social activities and serve the community.

**Sigma Tau Delta/English Club:** Professional organization for those interested in literature and writing.<sup>1</sup>

**Sigma Tau Gamma:** Men's social fraternity.

**Social Work Association:** Service and social organization to promote a communal bond among students interested in the field of social work.

**Society of Manufacturing Engineers:** Professional organization for students interested in all areas of manufacturing.

**Sorority Council:** To oversee the social sororities on campus.

**Southwestern Achievement in Nursing Scholarship:** Honor society for nursing students and practicing nurses.

**Southwestern Art Association:** Social organization for the Art Department.

**Southwestern Hispanic Association:** Social organization promoting Spanish culture.

**Southwestern International Student Association:** Student social and educational organization.

**Southwestern Nontraditional Students Organization:** Organization for non-traditional students (23 years old and older).

**Southwestern Oklahoma State University Nursing Student Association (SOSUNSA):** Professional Organization for Student Nurses.

**Southwestern Pharmaceutical Association:** This student organization is devoted to the professional and ethical advancement of pharmacy students. Membership is open to full-time SWOSU students who have declared a Pre-Pharmacy or Pharmacy major. This organization is affiliated with both the Oklahoma Pharmaceutical Association and the American Pharmaceutical Association.

**Southwestern Roller Hockey Club:** Organized competition for roller hockey.

**Spanish Club:** Study club for Hispanic culture and language.

**Student Council for Exceptional Children:** Student association to advocate education of exceptional children.

**Student Government Association:** Major institutional organization of students.

**Student Oklahoma Education Association:** Professional association to assist education majors in exploring opportunities in education.

**Tau Beta Sigma:** Music organization to initiate projects which support the University bands.

**Technology Education Collegiate Association:** Professional organization for students preparing to teach technology.

**Tri-Beta:** Professional organization to promote biological interest in a pre-professional setting.

**University Media Association:** Student association to promote interest and professional development in print and broadcast communications.

**Wesley Foundation:** Methodist Christian student fellowship association.

**Young Democrats:** Organization encouraging political awareness and a sense of civic responsibility.

**Zeta Phi:** Organization to help develop and better the lives of respectable women, utilizing community service, friendships and campus involvement.

# 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 \$17,000,000 annually in federal and state financial aid including Federal Pell Grants, Federal SEOG grants, Oklahoma Tuition Aid Grants, 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 service 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 his/her abilities. Scholarships are generally not cash awards, but instead fee waivers applied toward 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.

## HOW TO APPLY FOR FINANCIAL ASSISTANCE

Students should complete a Free Application for Federal Student Aid (FAFSA), which is available from the Office of Student Financial Services and online at <http://www.fafsa.ed.gov>.

Once the application is completed and the student has been admitted to Southwestern Oklahoma State University, the student has three options for submitting the application to the federal processor:

1. Mail in the application in the envelope provided with the application.
2. Complete the application on the internet to transmit electronically; or
3. Submit the application to the Office of Student Financial Services at Southwestern Oklahoma State University for electronic submission.

Once the federal processor has completed calculations, the University will automatically receive the student's data. When the University receives this data, the Office of Student Financial Services will notify the student regarding necessary steps in the application process. 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:

Freshman Scholarship Application	March 1
Continuing Fee Waiver Application	May 1
Foundation Scholarship Application	March 1
Free Application for Federal Student Aid-Fall/Spring	April 30

## 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, and Federal Parent PLUS Loan.

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/](http://www.swosu.edu/sfs/).

## RETURN OF TITLE IV FUNDS

Federal law requires that students who receive financial aid and completely withdraw before the 60percent point of a semester may 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 SCHOLARSHIP PROGRAMS**

### **Federal Pell Grant**

Over \$4,000,000 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 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.

### **Federal Stafford Loans**

#### **Subsidized**

Subsidized Federal Stafford Loans are low-interest, need-based loans made to the student by a lender, such as a bank, credit union, or savings and loan association 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 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 a lender, such as a bank, credit union or savings and loan association 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 the 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 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 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.

# SCHOLARSHIPS, AWARDS, AND HONORS

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 (Administration Building, Room 201). All other scholarships and awards are administered by organizations, academic departments, and schools. Contact the appropriate department chair for additional information.

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)**

**CARL HICKERSON SCHOLARSHIP:** Established by Carl Hickerson, a life long 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)**

**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 12 credit hours at Southwestern Oklahoma State University during the fall and/or spring terms. To be considered for an award, a student must complete the appropriate application form available from the Office of Student Financial Services and return the completed application to the Office of Student Financial Services postmarked no later than May 1. Awards are competitively assigned based upon a point total comprised 50% of the student's cumulative grade point average, 25% by the most recent fall semester grade point average and 25% by the most recent spring semester grade point average.

**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 granted to persons selected on the basis of need and scholastic achievement. Taken into account are ACT scores and high school GPA. Scholarship awards are made without regard to race, creed, sex, ethnic group, or age. Applications may be obtained from the Office of Financial Services. 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 and are in good standing, with a 3.0 GPA are eligible to apply. **(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 chosen on the basis of need and scholarship. **(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)**

**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 ALBRIGHT MEMORIAL SCHOLARSHIP:** This annual scholarship is given in memory of the late Glenn Albright, an outstanding Oklahoma citizen and farmer. 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)**

**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 not to be used for athletic purposes. **(F)**

**HINKLE MEMORIAL SCHOLARSHIP:** Established by Edna Hansen in memory of her son-in-law Leland Hinkle for a student from Watonga. This award is based on good grades and financial need. Preference is given to a history major. **(F)**

**HONOR GRADUATES:** Seniors with outstanding academic records are recognized during the graduation convocation. Those with four-year 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)**

**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)**

**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)**

**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)**

**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)**

**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)**

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

**R/B/G KOBEL MEMORIAL FUND:** Established by Cecil Pettie, executor of the estate of Glenn 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)**

**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)**

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

**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)**

**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)**

**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 Regent Wayne Salisbury and Joi Dell Salisbury to provide scholarship assistance for students in education, pharmacy, and arts and sciences. **(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)

WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES: Forty-eight 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

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)

### 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 science 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.

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.

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)

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 FUND: This fund was established by Casey Peters in memory of her husband. The scholarship will be awarded to a student pursuing a science or pre-med degree. They 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)

### CHEMISTRY AND PHYSICS

#### Chemistry

STUART BURCHETT ANALYTICAL CHEMISTRY AWARD: Presented to the outstanding student in Analytical Chemistry who has completed Quantitative Analysis and Instrumental Analysis. The award includes a check for \$25, a subscription to *Analytical Chemistry*, and membership in the Analytical Chemistry Division of the American Chemical Society.

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 award includes a check for \$25 and a Handbook of Chemistry and Physics (a \$120 value).

G. E. CASTLEBERRY FRESHMAN SCHOLARSHIP: Presented to one or more outstanding freshman Chemistry majors who will be enrolling in Organic Chemistry I (majors) in the fall. This award is \$200/semester for up to six semesters. Selections are based on standardized exam results. (F)

CHEMISTRY CHAIR'S SCHOLARSHIP: A one-year scholarship of \$200/semester given to a Chemistry major for service to the department. The chair of the Chemistry Department selects the recipient.

CRONIN SCHOLARSHIP: Two or more annual scholarships of \$200/semester are awarded to sophomore, junior, and senior Chemistry majors selected by a faculty committee from qualified students making application. (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)

HAROLD M. WHITE ORGANIC CHEMISTRY ACHIEVEMENT AWARD: Presented to the outstanding student in Organic Chemistry II for majors. The recipient will receive the Polymer Education Division award and a Lange's Chemistry Handbook (an \$80 value). (F)

**ED NEPARKO SENIOR CHEMIST AWARD:** Presented to the outstanding graduating senior in Chemistry, this award includes a check for \$25, associate membership in the American Institute of Chemists, and a subscription to *The Chemist*.

### **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 is 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)**

**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.

**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 ARTS**

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

**CEDRIC CRINK MEMORIAL SCHOLARSHIP:** This scholarship is presented annually to an outstanding Speech-Theatre major who is active in the forensics program. **(F)**

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

**ENGLISH CLUB SCHOLARSHIPS:** The English Club awards one or more scholarships of \$50 to \$100 annually to outstanding members of the club.

**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 Arts 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.

**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. **(F)**

**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 ARTS DEPARTMENT SCHOLARSHIP:** 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 Arts faculty member. **(F)**

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

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

**SPANISH CLUB SCHOLARSHIP:** The SWOSU Spanish Club, "Sombreros y Mantillas," awards \$50 annually to a student who minors in Spanish.

**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 Arts faculty member. **(F)**

### **MUSIC**

**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)**

**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 AND ALICE JURRENS 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)**

**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)**

**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 2.5 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 financial need. **(F)**

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

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

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

## **SOCIAL SCIENCES**

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

## **COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES**

### **SCHOOL OF 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.

**SOUTHWESTERN MEMORIAL HOSPITAL SCHOLARSHIP:** This scholarship provides financial assistance to academically successful students with financial need in either the School of Nursing or School of Allied Health Sciences. The student must have completed a minimum of 60 hours for Medical Technology or Allied Health or been formally admitted to Nursing or Health Information Management Programs. **(F)**

#### **Allied Health**

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

**LAMBDA TAU AWARD:** This award is presented annually to a Medical Technology major selected by Beta Alpha Chapter of the National Medical Technology Honor Society, Lambda Tau.

**MALCOLM T. MACEACHERN-GRACE WHITING MYERS STUDENT LOAN:** This loan is available to senior Health Information Management students from the American Health Information Management Association.

**MU RHO ALPHA AWARD:** A monetary award is presented by the Health Information Management Club to a sophomore or junior Health Information Management student.

**OKLAHOMA SOCIETY FOR MEDICAL TECHNOLOGY (OSMT) SCHOLARSHIP:** This scholarship is for students eligible for clinical education in Medical Technology. Applications are made through the Oklahoma Society for Medical Technology.

**OUTSTANDING ADMINISTRATION OF HEALTH CARE SERVICES STUDENT AWARD:** An annual award is presented by the local chapter of Alpha Alpha Sigma.

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

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

### **SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION**

#### **Education**

**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. JOHN AND JACQUELINE LUDRICK SCHOLARSHIP:** This scholarship fund was established by Dr. John A. Ludrick to support a Teacher Education student in Elementary or Secondary Education. This scholarship will be awarded based on academic achievement. Applicant must be a full-time, junior or senior student working toward a Teacher Education degree. The student must also be a citizen of the United States, have a home residence in Oklahoma, and have at least a 3.0 GPA. **(F)**

**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.

**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.

**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 Elementary Education majors with a strong commitment to teaching.

**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)**

**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.

**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)

### **Health and Physical Education Athletics**

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)

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 a graduate student for outstanding academic achievement in Psychology. Recipients are selected by a faculty committee.

JERRY LEVY MEMORIAL SCHOLARSHIP: Established by Dr. Les Levy in honor of his father, Jerry. Recipient must be a Psychology student and is selected on the basis of need and academic performance by Dr. Levy and a committee. (F)

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)

LES AND 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)

ROBERT S. TYLER: An annual award given to an undergraduate student for exceptional academic achievement in Psychology. Recipients are selected by a faculty committee.

### **Social Work**

CHILD WELFARE PROFESSIONAL ENHANCEMENT: This program, in partnership with the Oklahoma Department of Human Services, provides educational stipends for selected social work students planning a career working with Oklahoma's children and families to promote safety, permanency and well-being. Participants, as BSW graduates, enter DHS employment as Child Welfare Specialists.

### **SCHOOL OF 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)

DOBSON COMMUNICATIONS CORPORATION ENDOW-MENT FUND: This fund was established by Everett Dobson, President and CEO of Dobson Communication Corporation, for the general and unrestricted use of the School of Business. (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 the School of Business and be funded on the basis of academic merit and need. **(F)**

**FRANK AND SHIRLEY (DOUGLAS) POLK SCHOLARSHIP:** Scholarship fund used to provide financial assistance for students in the School of Business. 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 member of the School of Business faculty. **(F)**

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

**SCHOOL OF BUSINESS SCHOLARSHIPS:** Departmental scholarships are presented annually from funds provided by donors to the School of Business. Scholarships awarded on a competitive basis as determined by academic performance and leadership potential. **(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)**

## **SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY**

### **Computer Science**

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

### **Technology**

**DEAN AINSWORTH MEMORIAL SCHOLARSHIP:** This scholarship was established by the family of Dean Ainsworth, long time teacher, administrator, and supporter of technology education. Recipients are selected by a faculty committee of the Department of Technology. Award is based on financial need. **(F)**

**JOHN L. CERMAK AWARD:** This award is given to an outstanding Technology Education student and is based on scholastic averages, involvement in departmental affairs, and professional advancement in technology. Recipients are selected by a faculty committee of the Department of Technology.

**RICHARD T. BRUCE AWARD:** An award is given to an outstanding Engineering Technology student. This award is based on scholastic averages, involvement in departmental affairs, and professional advancement in technology. Recipients are selected by a faculty committee of the Department of Technology.

**SOCIETY OF MANUFACTURING ENGINEERS SCHOLARSHIP:** This scholarship is awarded annually to an Engineering Technology student by Society of Manufacturing Engineers Chapter #125, Oklahoma City.

## **SCHOOL OF NURSING**

**BARTLETT LOAN AGREEMENT, CLINTON REGIONAL HOSPITAL, CLINTON OKLAHOMA:** Loan includes \$2400 per year for tuition, room, board, uniforms, books, equipment, and clinical practice travel expenses. Student agrees to seek employment as an RN in the western Oklahoma area for two years. Sum of loan will be repayable on monthly basis within five years. Contact Director of Nursing, Clinton Regional Hospital, P.O. Box 1569, Clinton, OK 73601, (580) 323-2363.

**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 student (>40 at the start of the Nursing Program) senior level student who is pursuing Nursing as a second career. **(F)**

**CHAIR'S LIST:** This is an intra-divisional letter of recognition for Nursing students who are enrolled in the major in 12 or more hours per semester. Students must have a GPA of 3.5 or higher with no grade below a "C".

**CHARLENE BUCK AWARD:** This is an annual cash award presented to an outstanding registered nurse who has completed the Nursing professional coursework for a Bachelor of Science in Nursing degree with a minimum GPA of 3.0.

**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 or senior level Nursing major. The student must have a 2.5 GPA on all completed coursework. 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 or senior 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.

**HELEN FENSTERMACHER EMERGENCY STUDENT  
LOAN FUND:** Student needing to borrow \$100 or less may  
submit an application to the Chair of the Student Affairs  
Committee.

**INDIAN HEALTH SERVICE SCHOLARSHIP  
PROGRAM:** Scholarships are available to qualified Native  
Americans through this program.

**J.O. POLLACK & COMPANY STUDENT NURSE  
ACHIEVEMENT AWARD:** This is a \$1,000 cash award.  
Application information is available through the Student  
Affairs Committee.

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

**LORENE DOUGLAS AWARD:** Vinita Sperry (1995)  
alumni established this annual award in memory of her  
mother, Lorene Douglas. The recipient is a Registered  
Nurse who has completed nine hours, is currently enrolled in  
nursing coursework, and completes a statement of  
educational career goals.

**NATIONAL COLLEGIATE NURSING AWARDS:** Each  
year outstanding student leaders in Nursing are nominated  
for this award.

**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 or senior Nursing major. Student must be a U. S.  
citizen with home residence in Oklahoma. Financial need  
will be considered. (F)

**OKLAHOMA DONOR COALITION SCHOLARSHIP:**  
This scholarship is available to a senior student with a 3.0  
GPA who has a critical care focus.

**OKLAHOMA REGION 5 NURSES ASSOCIATION  
AWARD:** On an annual basis, members of Region 5 will  
determine what type of award(s) will be presented.

**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. Deadline March 1.

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

**OUTSTANDING R.N. AWARD:** R.N. to B.S.N. student.  
This is an annual award presented to an outstanding  
registered nurse who has completed the Nursing  
professional coursework for a Bachelor of Science in  
Nursing degree with a GPA of 3.00.

**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.

**U.S. DEPARTMENT OF HEALTH AND HUMAN  
SERVICES NURSING EDUCATION LOAN  
REPAYMENT PROGRAM FOR REGISTERED NURSES:**  
Registered Nurses interested should contact the Student  
Affairs Committee for more information.

**VETERANS ADMINISTRATION SCHOLARSHIPS:**  
Selected Ready Reserves interested in careers in nursing are  
eligible for \$400/month for full-time study. Repaid by 2  
year work commitment in a VA medical center.

**WINONA MADISON AWARD:** A cash award is presented  
annually to a senior Nursing student who has demonstrated  
exceptional abilities in the clinical setting interacting with  
clients.

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 and senior Nursing students. **(F)**

## 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.

**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.

**ALBERTSONS SCHOLARSHIP:** Provided by Albertsons.

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

**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.

**B. G. KELLER FAMILY MEMORIAL SCHOLARSHIP:** In memory of Mr. and Mrs. Keller.

**B. G. KELLER, JR. 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 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.

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

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

**EDWARD C. CHRISTENSEN MEMORIAL AWARD:** In memory of Edward C. Christensen, a former Professor 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.

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

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

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

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

**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.

**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.

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

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

MCKESSON, INC. OF OKLAHOMA CITY SCHOLARSHIP: Provided by McKesson Wholesale Company.

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

OKLAHOMA COUNTY PHARMACISTS ASSOCIATION SCHOLARSHIP: Provided by the Oklahoma County Pharmacists Association.

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

OKLAHOMA PHARMACISTS ASSOCIATION DISTRICT 1 SCHOLARSHIP: Provided by District 1 of the Oklahoma Pharmacists Association.

PHARMACISTS MUTUAL INSURANCE COMPANY SCHOLARSHIP: Provided by Pharmacists Mutual Insurance Company.

QUEST FOR EXCELLENCE 50TH ANNIVERSARY SCHOLARSHIP: In honor of the 50th Anniversary of the College of Pharmacy.

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

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

SECUNDUM ARTUM COMPOUNDING SCHOLARSHIPS: Scholarships presented to professional students with an interest in compounding.

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

TARRANT COUNTY PHARMACEUTICAL ASSOCIATION SCHOLARSHIP: A scholarship provided by the Tarrant County Pharmaceutical Association.

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

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

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:

AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS STUDENT LEADERSHIP AWARD: This annual book award is presented to a professional student with leadership skills and who has demonstrated a professional interest in hospital pharmacy.

APhA-ASP MORTAR & PESTLE PROFESSIONALISM AWARD: This award consists of a mortar and pestle trophy, presented to an outstanding professional student in Pharmacy on the basis of leadership, scholarship, and the factors that contribute to professional success.

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

ELI LILLY & COMPANY ACHIEVEMENT AWARD: This gold medal is awarded for superior scholastic and professional achievement. Leadership qualities, professional attitude, and academic performance are considered.

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.

GLAXO SMITH-KLINE PATIENT CARE AWARD: Glaxo Smith-Kline presents an engraved plaque to the Pharmacy student who has demonstrated an appreciation of and superior achievement in the clinical aspects of Pharmacy Practice.

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 annual book award is presented to a professional student on the basis of excellent scholarship and leadership achievement.

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.

**PERRIGO EXCELLENCE IN NONPRESCRIPTION MEDICATION STUDIES AWARD:** A cash award and plaque is presented to a professional student based on scholarly performance in the area of nonprescription medications.

**PFIZER PHARMACEUTICAL COMMUNITY PHARMACY INTERNSHIP AWARD:** A plaque is given to a professional student who has displayed excellence in the community practicum program.

**PHARMACISTS MUTUAL INSURANCE COMPANY BOOK AWARD:** A copy of a significant book in pharmacy is given to a professional student for scholastic performance.

**ROCHE PHARMACY COMMUNICATIONS AWARD:** A plaque is awarded to a student who has demonstrated excellence in communications during the clerkship and practicum rotations.

**ROCHE PRECEPTOR OF THE YEAR AWARD:** This annual award is provided by Roche Laboratories, Inc., to an outstanding member of the adjunct Pharmacy Practice faculty in recognition of his or her contribution to the educational processes through the Pharmacy Practicum component.

**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.

**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 PHARMACY ALUMNI ASSOCIATION:** The Alumni Association provides financial support for the annual Senior Awards Banquet and other student functions.

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

# 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 970 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.
- meets the minimum high school curricular requirements:
  - 4 years of English (grammar, composition, literature)
  - 3 years of mathematics (Algebra I and higher level math)
  - 2 years of lab sciences (may not include general science)
  - 2 years of history (must include one unit of American History)
  - 1 year of citizenship skills (economics, geography, multicultural history, American government)
  - 3 years additional units (computer science, foreign language, or any additional units of subjects previously listed)
- 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.

## 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 remedial courses.\* The computer placement test (CPT) is used as the second level test. Students who score below 19 on any ACT subtest should contact the University Assessment Center for information about the CPT and placement in required remedial courses. The following CPT scores have been established for remedial course placement for entering freshmen:

<b>Mathematics</b>	Below 65	0123 Basic Algebra
<b>English</b>	Below 75	0123 Fundamentals of English
<b>Reading</b>	Below 75	0122 Improvement of Reading

## Science

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

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

\*Students who score below 19 on any ACT subtest areas may elect to enroll in appropriate remedial courses without completing second level testing.

## 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. If the course(s) is (are) successfully completed with a "C" or equivalent, the student will be admitted. Individuals with one curricular deficiency may enroll in a fall or spring semester. Students must successfully complete deficiency courses during the first 24 hours attempted or have all subsequent enrollments restricted to deficiency removal courses until all deficiencies are removed.
- 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 enrolled in less than a full time load (fewer than six credit hours per semester) at the high school which the student is attending as attested by the high school principal.
- 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.

#### **INTERNATIONAL STUDENTS**

- Before being considered for admission as a first time freshman, the applicant must provide the Office of Admissions with a certification that s(he) earned a minimum TOEFL score of 500 and a satisfactory ACT or SAT score.
- International student applicants must provide a financial certificate on a university-provided form showing sufficient resources to pay for the student's entire program of study and living expenses. A deposit is required at the time of application.
- Application deadlines for international students are June 1 for fall semesters, October 1 for spring semesters, and March 1 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.
- The student is responsible for notifying the Admissions Office and personally seeing that correct forms are supplied to the Immigration Service at the proper time. The I-20 and I-538 forms are kept in supply, but the

student must provide other necessary forms required for his or her study.

- Any foreign student under a student visa is required to pay non-resident tuition and fee costs each semester while at Southwestern Oklahoma State University.
- It is assumed by the required financial statement that resources are adequate. The foreign student will not ordinarily be permitted to work while a student at Southwestern Oklahoma State University.
- Financial aid is not ordinarily available to foreign students at Southwestern Oklahoma State University and should not be expected.
- 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. 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.
- A non-citizen who has attained a "permanent" resident immigrant status and 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.)
- Medical insurance is required.

#### **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.
- NOTE: Transfer students whose scholastic records do not meet minimum standards may be admitted on probation for a semester on the same basis as SWOSU students.

#### **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 TOEFL score of at least 500.
- must provide financial certificate and deposit.

# 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 advisers 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 two academic forgiveness provisions. The **repeated courses policy** and the **academic reprieve 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

The Americans with Disabilities Act (ADA) 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 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 may be received in the Dean of Students Office, Room 214, Gen. Thomas P. Stafford Center, (580) 774-3024

## 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 freshman clinic. 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 Office of Student Services.

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

### CLASSIFICATION

Freshman:	A student with fewer than 32 semester hours of college credit.
Sophomore:	With 32 or more and fewer than 64 semester hours.
Junior:	With 64 or more and fewer than 96 semester hours.
Senior:	With 96 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 School 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 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, nursing, 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). 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 extension and correspondence work. In general, the residence work must include at least 15 of the final 30 credit hours that apply toward the degree.
- A maximum of 64 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 from the Office of the Registrar. (Beginning freshman with no college hours earned are required to attend a New Student Orientation session in order to enroll for the fall semester.)

## 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.

During the regular semesters, the two/three days prior to the beginning of finals are considered "dead days" in that no examinations, quizzes, extracurricular events (other than unscheduled league play-off events), or required field trips are to be scheduled, and no papers, reports or projects are to be due or presented during these days.

Examinations for single classes must follow the schedule. Multi-section examinations must be approved by the Assistant Vice President for Academic 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

An undergraduate student must be enrolled in at least 12 credit hours in the fall or spring semester or at least six credit hours in the summer term to be considered a full-time student. A graduate student must be enrolled in at

least nine credit hours in the fall or spring semester or at least four credit hours in the summer term to be considered a full-time student.

## 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 artificial 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 11 weeks of class work during a regular semester or within the first four 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 officially any time prior to and including Friday of the week before final examinations begin 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.

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 using all credit hours attempted.

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.

December graduates may now walk through the graduation ceremony early. For example, if a student is scheduled to graduate in December 2003, s/he may (1) walk through the ceremony in May 2003 (before graduating) or (2) walk through the ceremony in May 2004 (after graduating).

## 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

SWOSU students are expected to use computer labs, writing labs, the online library card catalog, computer information sources, and computer networks. In order to use computer information technology effectively and efficiently while at SWOSU and as a job related skill, keyboarding proficiency is necessary. Freshmen students who completed a typing or keyboarding class in high

school meet requirements of the program. Students who do not have a typing or keyboarding credit on the high school transcript may take a keyboarding proficiency test. A minimum of 35 words per minute on a three-minute timed writing with not more than seven errors will allow students to meet the minimum proficiency requirement. Students who do not meet course or testing proficiency must enroll in a one credit hour keyboarding course (GSTDY 0121) during the first semester of enrollment.

## 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 adviser, a student may take a maximum of 20 hours during a regular semester and 10 hours during a summer term. With the approval of both the adviser and the Provost or the Assistant Vice President for Academic Affairs, 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:

- Basic skills in communication and mathematics—these include the ability to understand the ideas of others; to communicate one's ideas through writing, speech, and symbols; to understand mathematics concepts, principles, symbols, and logic; to think logically, critically, and creatively; and to use computers and other information technologies.
- Appreciation of our scientific heritage—this includes an understanding of the basic laws and concepts of science; a knowledge of the basic methodologies and phenomena of natural science; and the impact of scientific discovery and the ensuing technology on society.
- Appreciation of the fine arts—this includes knowledge of important individuals and some of their works and an appreciation of aesthetic, technical, symbolic, and historic effects of the fine arts.
- Knowledge of social and intellectual beings and their institutions—this includes studies of behavioral aspects of individuals and society; past and present world cultures; current social issues and trends; the importance of health and wellness; the rights and responsibilities of citizens in a democratic society; an understanding of global, social, economic, political, and ecological interdependence; and an appreciation of cultural diversity.

## 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, APP, 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 Assistant Vice President for Academic 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

REQUIRED HOURS .....	43 - 44
Composition .....	6
ENGL 1113 English Composition I	
ENGL 1213 English Composition II	
Mathematics .....	3
MATH 1143 Math Concepts	
MATH 1513 College Algebra OR	
higher numbered math course	
Computer Applications.....	2
COMSC 1022 Computers & Information Access	
Natural Sciences.....	8
BIOL 1004 Biological Concepts (required)	
SCI 1514 Concepts of Physical Science	
ASTRO 1904 Astronomy	
GEOL 1934 Physical Geology	
CHEM 1004 General Chemistry	
OR higher numbered chemistry course	
Humanities & Fine Arts .....	6
ART 1223 Art Survey	
LIT 2413 Introduction to Literature	
MUSIC 1013 Introduction to Music I	
PHILO 1453 Introduction to Philosophy	
COMM 1313 Introduction to Public Speaking	
U.S. History & Government.....	6
POLSC 1103 American Government & Politics	
HIST 1063 U.S. History	
Economic & International Studies.....	6
HIST 1033 World History	
GEOG 1103 World Cultural Geography	
ECONO 2263 Intro to Macroeconomics	
OR ECONO 2363 Intro to Microeconomics	
Behavioral, Social, & Cultural Studies.....	6 - 7
PSYCH 1003 General Psychology	
SOCIO 1003 Introduction to Sociology	
4 World Languages	
TECH 1223 Technology and Society	
HPE 1133 Wellness Concepts & Exercise	
Applications	

# COLLEGE OF ARTS AND SCIENCES

**Dr. Radwan Al-Jarrah, Dean**

The College of Arts and Sciences offers a wide variety of professional and general education programs that also underpins and reinforces all the other programs of the University. The college's seven departments: *Art, Biological Sciences, Chemistry and Physics, Language Arts, Mathematics, Music, Social Sciences*, and the *Interdisciplinary Studies Degree*, currently offer programs leading to the Bachelor of Arts, the Bachelor of Science, and other baccalaureate degrees; 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, Radiologic Technology, 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 is an essential component 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, science and technology, and the personal rewards of learning and living.

We expect our graduates to not only excel within their major areas of study but to also 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

Bachelor of Arts in Graphic Design

### DEPARTMENT OF BIOLOGICAL SCIENCES

Bachelor of Science

### DEPARTMENT OF CHEMISTRY AND PHYSICS

#### Chemistry

Bachelor of Arts

Bachelor of Science

Bachelor of Science (Professional Program)

#### Physics

Bachelor of Science (Engineering Physics)

### INTERDISCIPLINARY STUDIES DEGREE PROGRAM

Bachelor of Arts

### DEPARTMENT OF LANGUAGE ARTS

Bachelor of Arts (English – Writing Emphasis)

Bachelor of Arts (English – Literature Emphasis)

Bachelor of Arts

(Communication Arts – Mass Comm. Emphasis)

(Communication Arts – Speech Comm. Emphasis)

(Communication Arts – Theatre Emphasis)

### DEPARTMENT OF MATHEMATICS

Bachelor of Science

### 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

### DEPARTMENT OF SOCIAL SCIENCES

Bachelor of Arts (Criminal Justice)

Bachelor of Arts (History)

Bachelor of Arts (Political Science)



# DEPARTMENT OF ART

## COLLEGE OF ARTS AND SCIENCES

### FACULTY

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Art Building, Room 222  
Phone: (580) 774-3756  
E-mail: [joe.london@swosu.edu](mailto:joe.london@swosu.edu)  
<http://www.swosu.edu/art/>

A. Marvick..... ART 324.....[andrew.marvick@swosu.edu](mailto:andrew.marvick@swosu.edu) .....(580) 774-3032  
S. Rosser..... ART 210.....[steven.rosser@swosu.edu](mailto:steven.rosser@swosu.edu) .....(580) 774-3758  
P. Roys..... ART 410.....[pamela.roys@swosu.edu](mailto:pamela.roys@swosu.edu) .....(580) 774-3793

### DEPARTMENTAL GOALS

1. Prepare students for careers or graduate work in art.
2. To provide a supportive and enriching understanding or artistic expression.
3. Help students develop visual methods of personal communication.

### PROGRAMS OF STUDY

**Majors:** B.A.Ed. Art Education  
B.A. Graphic Design

**Minors:** Art  
Graphic Design

**Master:** M.Ed. Art  
(See Graduate Catalog for more information.)

### GENERAL INFORMATION

Through a sequential program, students are given opportunities to obtain a degree in Art Education or Graphic Design. Both of these programs of study include foundational art classes as well as a choice of exciting studio classes.

The Art Education program prepares the student for an art career in public education, while the Graphic Design program prepares the artist for a career in the design profession. Both areas cover theory as well as practice. The Art Education student will be trained in methods and materials and also have opportunities for classroom observation and internship. Graphic Design students will learn design and software technology while functioning as a working graphic designer, producing work for essential University publications.

For more information visit our web site at:  
<http://www.swosu.edu/art/>

# BACHELOR OF ARTS IN GRAPHIC DESIGN

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS**.....43 - 44

**Composition** .....6

**ENGL 1113 English Composition I**

**ENGL 1213 English Composition II**

**Mathematics**.....3

MATH 1143 Math Concepts

MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications** .....2

**COMSC 1022 Computer & Information Access**

**Natural Sciences**.....8

**BIOL 1004 Biological Concepts (required)**

SCI 1514 Concepts of Physical Science

ASTRO 1904 Astronomy

GEOL 1934 Physical Geology

CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts**.....6

ART 1223 Art Survey

LIT 2413 Intro to Literature

MUSIC 1013 Intro to Music I

PHILO 1453 Intro to Philosophy

COMM 1313 Intro to Public Speaking

**U.S. History & Government**.....6

**POLSC 1103 American Government & Politics**

**HIST 1063 U.S. History**

**Economic & International Studies** .....6

HIST 1033 World History

GEOG 1103 World Cultural Geography

ECONO 2263 Intro to Macroeconomics **OR**

ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies**..... 6 - 7

PSYCH 1003 General Psychology

SOCIO 1003 Intro to Sociology

\_\_\_\_\_4 World Languages

TECH 1223 Technology and Society

HPE 1133 Wellness Concepts & Exercise Applications

Continuation in the Graphics Program is contingent upon a portfolio review. Portfolio reviews are held at the end of each spring term. Student's work should be reviewed after the completion of 18 hours in the program.

## Graphic Design Major Code No. 102

**Required Art & Design courses**..... 25

ART 1123 Foundations I

ART 1133 Foundations II

ART 1143 Foundations III

ART 2133 Introduction to Graphic Design

ART 2143 History & Theory of Graphic Design

ART 3483 Printmaking Studio\*

ART 3513 Media for Artists

ART 4163 Portfolio

ART 4651 Senior Exhibit

**Approved Graphic Design courses**..... 18

ART 3213 Computer Graphics

ART 3683 Illustration Studio\*

ART 3783 Photographic/Digital Illustration\*

ART 3853 Typographic Design\*

ART 3883 Advertising Design\*

ART 3923 Publication Design\*

ART 3953 Professional Practice for Designers &  
Illustrators\*

ART 4413 Package Design\*

**Approved Elective Studio Art courses**..... 12

A minimum of two studio art areas below must be taken.

### DRAWING AREA

ART 1213 Perspective

ART 3153 Figure Drawing\*

ART 3753 Life Drawing\*

ART 4333 Studio Drawing\*

### PAINTING AREA

ART 2113 Acrylic Techniques

ART 3113 Watercolor Studio\*

ART 4313 Painting Studio\*

### THREE DIMENSIONAL STUDIO AREA

ART 3353 Clay Studio\*

ART 3413 Sculpture Studio\*

ART 4253 Applied Design

**Art History**..... 9

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** ..... 64

\*Denotes upper level studio classes that are repeatable twice in order to fulfill the free electives needed to reach 120 hours.

**Electives to bring total to** ..... 120

43-44 hrs G.E. + 64 hrs Art and Design + free electives = 120 hrs

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 (including last 8) .....	30
Minimum Grade Point Average in all coursework .....	2.00
Minimum Grade Point Average in major .....	2.00

# GRAPHIC DESIGN (CODE 102)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1133 Foundations II..... 3	1143 Foundations III.....3	Art History (as offered).....3
1123 Foundations I.....3	2143 Hist of Graphic Design .... 3	2133 Intro Graphic Design .....3	Studio Elective.....3
Studio Elective .....3	2113 Acrylic Techniques ..... 3	Gen Educ Crses .....6	Design Elective .....3
1113 English Comp I.....3	1213 English Comp II..... 3	Typographic Design .....3	Gen Educ Crses..... 7
Gen Educ Crses.....6			
Total: ..... 16	Total: ..... 12	Total: .....15	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Art History (as offered).....3	Art History (as offered)..... 3	Studio Elective .....3	Design Elective .....3
3513 Media For Artist.....3	Studio Elective..... 3	Design Elective .....3	Free Electives..... 12
3483 Printmaking Studio.....3	Design Elective..... 3	Gen Educ Crses .....9	4651 Senior Exhibit ..... 1
Gen Educ Crses.....4	Gen Educ Crses ..... 6		
Design Elective .....3			
Total: ..... 16	Total: ..... 15	Total: .....15	Total:..... 16

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

# DEPARTMENT OF BIOLOGICAL SCIENCES

## COLLEGE OF ARTS AND SCIENCES

### FACULTY

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 Science Building, Room 214  
 Phone: (580) 774-3293  
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L. Boggs .....	SCI 110 B .....	<a href="mailto:lisa.boggs@swosu.edu">lisa.boggs@swosu.edu</a> .....	(580) 774-3090
H. Cole.....	SCI 110 E .....	<a href="mailto:harold.cole@swosu.edu">harold.cole@swosu.edu</a> .....	(580) 774-3099
J. Maness .....	SCI 110 C .....	<a href="mailto:joseph.maness@swosu.edu">joseph.maness@swosu.edu</a> .....	(580) 774-3096
S. O'Neal .....	SCI 110 D.....	<a href="mailto:steven.oneal@swosu.edu">steven.oneal@swosu.edu</a> .....	(580) 774-3091
R. Segal .....	SCI 307 A.....	<a href="mailto:ronald.segal@swosu.edu">ronald.segal@swosu.edu</a> .....	(580) 774-3230
B. Seibert .....	SCI 307 B .....	<a href="mailto:bill.seibert@swosu.edu">bill.seibert@swosu.edu</a> .....	(580) 774-3097
M. Ubeidat .....	SCI 110 A.....	<a href="mailto:muatasem.ubeidat@swosu.edu">muatasem.ubeidat@swosu.edu</a> .....	(580) 774-3298

### DEPARTMENTAL GOALS

1. To provide high quality instruction in biological sciences, which emphasizes the delicate nature of the biosphere and our responsibility to care for this biosphere.
2. To provide students with an individualized degree program, designed within the limits of graduation requirements that allows them to pursue life goals.
3. To provide programs that give students a knowledge base that enables them to educate themselves about the scientific and technological issues of their time, with an understanding of the nature of science and its place in society, and with an understanding of the methods and processes of scientific inquiry.
4. To provide opportunities that enable students to enrich their lives by increasing awareness of themselves and the environment.
5. To provide a resource center for investigating and disseminating information about the living environment of western Oklahoma.

### GENERAL INFORMATION

(Programs and Advisors)

#### Biological Sciences

All faculty advise Biology majors

#### Pre-Medicine, Pre-Dentistry

H.D. Cole

#### Pre-Veterinary Medicine

P.M. Grant

#### Pre-Optometry, Pre-Medicine

R.H. Segal

#### Pre-Physical Therapy, Pre-Occupational Therapy, Pre-Physician Associate, Pre-Radiologic Technology, Pre-Communication Sciences Disorders, Pre-Nutritional Sciences

W.S. Ball

#### Pre-Dental Hygiene

J.D. Maness

#### Marine/Aquatic Biology

S.W. O'Neal

#### Natural Science Education

R.W. Seibert

L. L. Boggs

#### Genetics, Molecular Biology, Biotechnology

M. Ubeidat

### PROGRAMS OF STUDY

**Majors:** B.S. Biological Sciences  
 B.S. Ed. Natural Science Ed. (Biology)

**Minor:** Biological Sciences

**Pre-Professional:** Communication Sciences & Disorders  
 Dental Hygiene  
 Dentistry  
 Medicine  
 Nutritional Sciences/Clinical Dietetics  
 Occupational Therapy  
 Optometry  
 Physical Therapy  
 Physician Associate/Assistant  
 Radiologic Technology/Radiology  
 Veterinary Medicine

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

The course offerings in the Department of Biological Sciences span the sub-disciplines within the life sciences. This diversity prepares students for professional schools as well as a variety of options for graduate study and careers in professional biology.

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.

Opportunities for teaching and research are offered to selected students. Positions as teaching assistants are available in course laboratory sections. Students may also receive independent study course credit for participation in ongoing faculty research projects.

Membership in the Biology Club can further enhance the training received by biology majors. This student organization, established in 1930, assists the department in such areas as display preparation, arrangement for seminar speakers and scheduling of tours of research laboratories and wildlife refuges. Beta Beta Beta, a national biological science honor fraternity, recognizes the achievements of biology students.

For more information visit our web site at:

<http://www.swosu.edu/biology/>

# BACHELOR OF SCIENCE BIOLOGY

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition ..... 6**

<b>ENGL</b>	<b>1113</b>	<b>English Composition I</b>
<b>ENGL</b>	<b>1213</b>	<b>English Composition II</b>

**Mathematics ..... 3**

<b>MATH</b>	<b>1143</b>	<b>Math Concepts</b>
<b>MATH</b>	<b>1513</b>	<b>College Algebra OR higher numbered math course</b>

**Computer Applications ..... 2**

<b>COMSC</b>	<b>1022</b>	<b>Computer &amp; Information Access</b>
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**Natural Sciences ..... 8**

BIOL	1004	Biological Concepts (required)*
SCI	1514	Concepts of Physical Science
ASTRO	1904	Astronomy
GEOL	1934	Physical Geology
CHEM	1004	General Chemistry <b>OR</b> higher numbered chemistry course**

**Humanities & Fine Arts ..... 6**

ART	1223	Art Survey
LIT	2413	Intro to Literature
MUSIC	1013	Intro to Music I
PHILO	1453	Intro to Philosophy
COMM	1313	Intro to Public Speaking

**U.S. History & Government ..... 6**

<b>POLSC</b>	<b>1103</b>	<b>American Government &amp; Politics</b>
<b>HIST</b>	<b>1063</b>	<b>U.S. History</b>

**Economic & International Studies ..... 6**

HIST	1033	World History
GEOG	1103	World Cultural Geography
ECONO	2263	Intro to Macroeconomics <b>OR</b>
ECONO	2363	Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH	1003	General Psychology
SOCIO	1003	Intro to Sociology
	___4	World Languages
TECH	1223	Technology and Society
HPE	1133	Wellness Concepts & Exercise Applications

\* Biological Concepts may be satisfied by Principles of Biology (BIOL 1054) which is a requirement for this degree.

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

## Biology Major Code No. 103

Required Courses ..... 19

*BIOL	1054	Principles of Biology
BIOL	2022	Biological Orientation
BIOL	2204	Introductory Zoology
BIOL	2404	Introductory Botany
BIOL	3254	Genetics
BIOL	4901	Senior Seminar in Biological Sciences

*\*Principles of Biology is a pre-requisite for most higher numbered biology courses.*

Major Electives ..... 21

(Majors must complete at least one field biology course\* or a 4 hr lab course from the Gulf Coast Research Lab)

BIOL	3012	Biological Terminology
*BIOL	3304	Aquatic Biology
BIOL	3403	Plant Morphology
*BIOL	3504	Natural History
*BIOL	3604	General Entomology
BIOL	3704	Human Anatomy
BIOL	3804	Plant Physiology
BIOL	3904	Human Physiology
BIOL	4154	Developmental Biology
BIOL	4284	Animal Parasitology
*BIOL	4314	Environmental Biology
ALHLT	4355	Microbiology
*BIOL	4454	Plant Taxonomy
*BIOL	4604	General Ecology
BIOL	4622	Economically Important Plants
BIOL	4933	Cellular Physiology
BIOL	4964	Molecular Biology
BIOL	4974	Histology
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.)

Other Requirements..... 24-33

### Mathematics

MATH	1613	College Trigonometry (or 1834 Calculus I)
MATH	3413	Statistical Methods I

### Chemistry

CHEM	1203 & 1252	General Chemistry I (Lecture and Lab)
CHEM	1303 & 1332	General Chemistry II (Lecture and Lab)
CHEM	2114	Organic/Biochemistry (or 3013 & 3111 Organic Chemistry I and 4113 & 4021 Organic Chemistry II)

### Physics

PHY	1064	General Physics (or 1044 Basic Physics I and 1054 Basic Physics II)
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Electives to bring total to ..... 120

For the minor program, refer to the Biological Sciences 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 (including last 8)..... 30

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

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

## BIOLOGY (CODE 103)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	2404 Introd Botany..... 4	2204 Introd Zoology..... 4	3254 Genetics.....4
1054 Princ of Biology..... 4	1213 English Comp II..... 3	1203 Gen Chem I Lect ..... 3	1303 Gen Chem II Lect .....3
1113 English Comp I..... 3	1613 College Trig..... 3	1252 Gen Chem I Lab ..... 2	1332 Gen Chem II Lab .....2
1513 College Algebra ..... 3	2022 BioOrientation ..... 2	3413 Statistical Methods I..... 3	Gen Educ Crses .....6
Gen Educ Crses..... 4	Gen Educ Crses ..... 3	Gen Educ Crse..... 3	
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1064 General Physics..... 4	Minor Course..... 4	Biology Field Course..... 4	4901 Senior Seminar .....1
2114 BioOrganic Chem ..... 4	Major Elective ..... 8	Major Elective ..... 4	Major Elective.....2
Gen Educ Crses..... 4	Gen Educ Crse..... 3	Minor Course..... 4	Minor /Gen Ed Courses .....9
Major Elective ..... 3		Gen Educ Crse..... 3	Gen Educ Crse .....3
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: .....15

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

## BIOLOGY PRE-PROFESSIONAL MAJOR (CODE 103)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	2404 Introd Botany..... 4	2204 Introd Zoology..... 4	3254 Genetics.....4
1054 Princ of Biology..... 4	1213 English Comp II..... 3	1203 Gen Chem I Lect ..... 3	1303 Gen Chem II Lect .....3
1113 English Comp I..... 3	1613 College Trig..... 3	1252 Gen Chem I Lab ..... 2	1332 Gen Chem II Lab .....2
1513 College Algebra ..... 3	2022 BioOrientation ..... 2	3413 Statistical Methods I..... 3	Gen Educ Crses .....6
Gen Educ Crses..... 4	Gen Educ Crses ..... 3	Gen Educ Crse..... 3	
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3704 Human Anatomy..... 4	3904 Human Physiology..... 4	Field Course ..... 4	4901 Senior Seminar .....1
1044 Basics Physics I..... 4	1054 Basic Physics II ..... 4	Major Elective..... 4	Major Elective.....5
3013 Organic Chem I..... 3	4113 Organic Chem II ..... 3	Gen Educ Crse..... 2	Gen Educ Crse .....3
3111 Organic Chem Lab ..... 1	4021 Organic Chem II Lab ..... 1	Free Elective..... 5	Free Elective .....6
Gen Educ Crse..... 3	Gen Educ Crse..... 3		
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: .....15

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



# DEPARTMENT OF CHEMISTRY AND PHYSICS

## COLLEGE OF ARTS AND SCIENCES

### FACULTY

Blake Sonobe, Chair  
Chemistry, Pharmacy, Physics Building, Room CPP202  
Phone: (580) 774-3266  
Email: [blake.sonobe@swosu.edu](mailto:blake.sonobe@swosu.edu)  
<http://www.swosu.edu/chemphys/>

### CHEMISTRY

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B. Campbell .....	CPP 201 D .....	<a href="mailto:brian.campbell@swosu.edu">brian.campbell@swosu.edu</a> .....	(580) 774-3118
S. Esjornson .....	CPP 208 .....	<a href="mailto:sylvia.esjornson@swosu.edu">sylvia.esjornson@swosu.edu</a> .....	(580) 774-7032
J. Johnson .....	CPP 201 B .....	<a href="mailto:jason.johnson@swosu.edu">jason.johnson@swosu.edu</a> .....	(580) 774-3110
W. Kelly .....	CPP 201 A .....	<a href="mailto:william.kelly@swosu.edu">william.kelly@swosu.edu</a> .....	(580) 774-3202
A. Lane .....	CPP 205 B .....	<a href="mailto:allen.lane@swosu.edu">allen.lane@swosu.edu</a> .....	(580) 774-3114
R. McCarty .....	CPP 205 D .....	<a href="mailto:robbie.mccarty@swosu.edu">robbie.mccarty@swosu.edu</a> .....	(580) 774-3265
D. McGurk .....	CPP 201 C .....	<a href="mailto:don.mcgurk@swosu.edu">don.mcgurk@swosu.edu</a> .....	(580) 774-3220
K. McGurk .....	CPP 201 E .....	<a href="mailto:karen.mcgurk@swosu.edu">karen.mcgurk@swosu.edu</a> .....	(580) 774-3200

### PHYSICS

T. Goforth .....	CPP 101 C .....	<a href="mailto:terry.goforth@swosu.edu">terry.goforth@swosu.edu</a> .....	(580) 774-3109
C. Rogers .....	CPP 101 D .....	<a href="mailto:charles.rogers@swosu.edu">charles.rogers@swosu.edu</a> .....	(580) 774-3108
T. Stein .....	CPP 101 B .....	<a href="mailto:tony.stein@swosu.edu">tony.stein@swosu.edu</a> .....	(580) 774-3107

### CHEMISTRY GOALS

1. To prepare students for careers in chemistry, graduate studies in chemistry, or professional studies in medicine, veterinary medicine, or optometry.
2. To provide supportive coursework for students in Elementary and Secondary Science Education.
3. To provide supportive coursework in related sciences such as biology, nursing, environmental science, medical technology, physics, pre-pharmacy, pre-dentistry, pre-engineering, pre-medicine, pre-veterinary, and technology.

### PHYSICS GOALS

1. To provide a broad foundation in the physical sciences for students who wish to pursue careers in physics, engineering, medicine, pharmacy, optometry, or education.
2. To provide a specialized training in classical and modern physics for students majoring in engineering physics.
3. To provide general education courses for all students in the College of Arts and Sciences to enrich their educational experience in physical sciences.
4. To prepare technically competent students to join the engineering staff of industries or of government laboratories.
5. To advise students and administer the B.S. in Engineering Physics program.

### CHEMISTRY PROGRAMS OF STUDY

<b>Majors:</b>	B.A. Chemistry B.S. Chemistry B.S. Professional Chemistry B.S.Ed.Natural Science Education
<b>Minor:</b>	Chemistry
<b>Master:</b>	M.Ed. Natural Sciences (See Graduate Catalog for more information.)

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 any of the three degree options may choose to specialize in environmental chemistry by taking the asterisked advanced electives shown in the program descriptions on the following pages.

## PHYSICS PROGRAMS OF STUDY

<b>Majors:</b>	B.S. in Engineering Physics B.S.Ed. in Natural Science Education
<b>Minors:</b>	Physics Physical Science
<b>Pre-Professional:</b>	Pre-Engineering Pre-Medicine Pre-Optometry
<b>Master:</b>	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 currently hold positions at Conoco Phillips, 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. Chemistry graduates from SWOSU have also had a high acceptance rate at professional (medical, dental, and optometry) schools.

## 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

## GENERAL EDUCATION

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

**TOTAL HOURS** ..... 43 - 44

**Composition**.....6

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

**Mathematics** .....3

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications**.....2

COMSC 1022 **Computer & Information Access**

**Natural Sciences**.....8

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 **General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts**.....6

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government** .....6

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies**.....6

HIST 1033 **World History**  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies** ..... 6 - 7

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Chemistry Major (B.A.)

**Code No. 104**

Required Courses ..... 29

CHEM 1203 General Chemistry I  
CHEM 1252 General Chemistry I Lab  
CHEM 1303 General Chemistry II  
CHEM 1352 General Chemistry II Lab  
CHEM 3015 Organic Chemistry I  
CHEM 3124 Quantitative Analysis  
CHEM 4115 Organic Chemistry II  
CHEM 4234 Instrumental Analysis  
CHEM 4901 Senior Seminar in Chemistry

*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 ..... 8

*At least 4 hours must be in chemistry.*

CHEM 3234 Inorganic Chemistry  
\*CHEM 3244 Environmental Chemistry with lab  
CHEM 4001-4 Chemistry Research  
CHEM 4011-4 Sem. Chem. Spec. Topics (when offered)  
CHEM 4124 Biochemistry  
CHEM 4223 Polymer Chemistry  
\*CHEM 4254 Industrial Chem. and Environ Regs  
CHEM 4554 Advanced Organic Spectroscopy  
CHEM 4673 Advanced Metabolism  
\*MATH 3433 Statistics I

*\*Requirements for Specialization in Environmental Chemistry.*

Secondary Requirements

MATH 1613 College Trigonometry (1715 Coll. Alg. and Trig. will satisfy both GE & Chemistry secondary requirements)  
Biological Science (8 hours beyond GE requirement)  
Physics (6-8 hours)  
PHY 1044 Basic Physics I & PHY 1054 Basic Phys II  
**OR**  
PHY 1064 Gen Physics & Physics elective

Specialization in Environmental Chemistry: Students are advised to consider the following additional electives:

GEOG 4083 Environmental Studies  
MNGMT 3623 Risk Management

Electives to bring total to ..... 120

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

## 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

# BACHELOR OF SCIENCE CHEMISTRY

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition ..... 6**

ENGL 1113 English Composition I  
ENGL 1213 English Composition II

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications ..... 2**

COMSC 1022 Computer & Information Access

**Natural Sciences ..... 8**

BIOL 1004 Biological Concepts (required)  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts ..... 6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

POLSC 1103 American Government & Politics  
HIST 1063 U.S. History

**Economic & International Studies ..... 6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics OR  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Chemistry Major (B.S.) Code No. 105

Required Courses ..... 35-37

CHEM 1203 General Chemistry I  
CHEM 1252 General Chemistry I Lab  
CHEM 1303 General Chemistry II  
CHEM 1352 General Chemistry II Lab  
CHEM 3015 Organic Chemistry I  
CHEM 3124 Quantitative Analysis  
CHEM 4001-4 Chemistry Research (min 2 hrs)  
CHEM 4115 Organic Chemistry II  
CHEM 4234 Instrumental Analysis  
CHEM 4344 Physical Chemistry I  
CHEM 4901 Senior Seminar in Chemistry

*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 ..... 8

*At least 4 hours must be in chemistry.*

CHEM 3234 Inorganic Chemistry  
\*CHEM 3244 Environmental Chemistry with lab  
CHEM 4011-4 Sem in Chem Spec.Topics (when offered)  
CHEM 4124 Biochemistry  
CHEM 4223 Polymer Chemistry  
\*CHEM 4254 Industrial Chem. and Environmental Regs.  
CHEM 4454 Physical Chemistry II  
CHEM 4554 Advanced Organic Spectroscopy  
CHEM 4673 Advanced Metabolism  
\*MATH 3453 Statistics II  
MATH 4213 Differential Equations I  
PHY 3563 Thermodynamics

*\*Requirements for Specialization in Environmental Chemistry.*

## Secondary Requirements

Completion of these courses satisfies requirement for a math minor:

MATH 1613 College Trigonometry (1715 Coll. Alg and Trig. will satisfy both GE & Chemistry secondary requirements)  
MATH 1834 Calculus I  
MATH 2834 Calculus II  
MATH 3834 Calculus III  
PHY 2145, 2155 preferred

Specialization in Environmental Chemistry -- Students are advised to consider the following additional electives:

GEOG 4083 Environmental Studies  
MNGMT 3623 Risk Management

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  
(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**

<b>FIRST YEAR</b>		<b>SECOND YEAR</b>	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I.....3	1303 Gen Chem II.....3	3015 Organic Chemistry I.....5	4115 Org Chem II.....5
1252 Chem I Lab.....2	1352 Chem II Lab.....2	1044 Basic Physics I.....4	1054 Basic Physics II.....4
1113 English Comp I.....3	1213 English Comp II.....3	Gen Educ Crses.....6	Gen Educ Crses.....6
1715 College Alg/Trig.....5	Gen Educ Crses.....6		
1022 Comp & Info Access.....2			
1001 Freshman Orient*.....1			
Total:.....16	Total:.....14	Total:.....15	Total:.....15

<b>THIRD YEAR</b>		<b>FOURTH YEAR</b>	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis.....4	4234 Instru Analysis.....4	4901 Sr Sem in Chem.....1	4234 Instru Analysis.....4
Biology Elective.....4	OR Chemistry Elective	Chemistry Elective.....4	OR Chemistry Elective
Minor Elective.....4	Biology Elective.....4	Minor Elective.....4	Chemistry Elective.....4
Gen Educ Crses.....3	Minor Elective.....4	Free Elective.....3	Free Elective.....4
	Gen Educ Crse.....3	Gen Educ Crse.....3	Gen Educ Crses.....3
Total:.....15	Total:.....15	Total:.....15	Total:.....15

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

**CHEMISTRY (B.S.) (CODE 105)****Suggested Course Sequence**

<b>FIRST YEAR</b>		<b>SECOND YEAR</b>	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I.....3	1303 Gen Chem II.....3	3015 Organic Chemistry I.....5	4115 Org Chem II.....5
1252 Chem I Lab.....2	1352 Chem II Lab.....2	3124 Quantitative Analysis.....4	2145 Gen Physics I.....5
1113 English Comp I.....3	1834 Calculus I.....4	2834 Calculus II.....4	3834 Calculus III.....4
1715 College Alg/Trig.....5	1213 English Comp II.....3	Gen Educ Crse.....3	
1022 Comp & Info Access.....2	Gen Educ Crses.....3		
1001 Freshman Orient*.....1			
Total:.....16	Total:.....15	Total:.....16	Total:.....14

<b>THIRD YEAR</b>		<b>FOURTH YEAR</b>	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4344 Physical Chemistry I.....4	4234 Instru Analysis.....4	4344 Physical Chemistry I.....4	4234 Instru Analysis.....4
OR Elective	OR Chemistry Elective	OR Elective	OR Chemistry Elective
2155 Gen Physics II.....5	Chemistry Elective.....4	4001 Research.....1	Research.....1
Gen Educ Crses.....6	Free Elective.....3	4901 Senior Sem in Chem.....1	Free Elective.....3
	Gen Educ Crses.....4	Free Elective.....3	Gen Educ Crses.....6
		Ge Educ Crses.....6	
Total:.....15	Total:.....15	Total:.....15	Total:.....14

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

# BACHELOR OF SCIENCE CHEMISTRY - PROFESSIONAL

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition ..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications..... 2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences ..... 8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 **General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government ..... 6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies ..... 6**

HIST 1033 **World History**  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Chemistry Major (B.S. Professional) Code No. 106

Required Courses .....47 - 49

CHEM 1203 General Chemistry I  
CHEM 1252 General Chemistry I Lab  
CHEM 1303 General Chemistry II  
CHEM 1352 General Chemistry II Lab  
CHEM 3015 Organic Chemistry I  
CHEM 3124 Quantitative Analysis  
CHEM 3234 Inorganic Chemistry  
CHEM 4001-4 Chemistry Research (min 2 hr)  
CHEM 4115 Organic Chemistry II  
CHEM 4124 Biochemistry  
CHEM 4234 Instrumental Analysis  
CHEM 4344 Physical Chemistry I  
CHEM 4454 Physical Chemistry II  
CHEM 4901 Senior Seminar in Chemistry

*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 ..... 6 - 7

CHEM 4011-4 Sem./Chem. Spec. Topics (when offered)  
CHEM 4223 Polymer Chemistry  
CHEM 4554 Advanced Organic Spectroscopy  
CHEM 4673 Advanced Metabolism  
MATH 3453 Statistics II  
MATH 4213 Differential Equations I  
PHY 3563 Thermodynamics

## Secondary Requirements

Completion of these courses satisfies math minor.

MATH 1613 College Trigonometry, 1715 Coll. Alg. and  
Trig. will satisfy both GE & Chemistry secondary  
requirements  
MATH 1834 Calculus I  
MATH 2834 Calculus II  
MATH 3834 Calculus III  
PHY 2145 General Physics I  
PHY 2155 General Physics II

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  
(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.S. PROFESSIONAL) (CODE 106)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I.....3	1213 English Comp II..... 3	2834 Calculus II ..... 4	2145 Gen Physics I..... 5
1252 Chem I Lab.....2	1303 Gen Chem II ..... 3	3015 Organic Chemistry I ..... 5	3834 Calculus III ..... 4
1113 English Comp I .....3	1352 Chem II Lab..... 2	3124 Quantitative Analysis ..... 4	4115 Org Chem II ..... 5
1715 College Alg/Trig .....5	1834 Calculus I..... 4	Gen Educ Crses ..... 3	
1022 Comp & Info Access .....2	Gen Educ Crses ..... 3		
1001 Freshman Orient* .....1			
Total:..... 16	Total: ..... 15	Total: ..... 16	Total: ..... 14

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2155 Gen Physics II ..... 5	4454 Physical Chem II..... 4	4001 Research ..... 1	4001 Research ..... 1
4344 Physical Chemistry I .....4	OR Chemistry Elective	Free Elective..... 3	4234 Instru Analysis..... 4
OR 4124 Biochemistry	4234 Instru Analysis ..... 4	4344 Physical Chemistry I..... 4	Or 3234 Inorg Chem
Gen Educ Crses..... 6	OR 3234 Inorg Chem	OR 4124 Biochemistry	Gen Educ Crses ..... 6
	Gen Educ Crses ..... 6	4901 Senior Sem chem..... 1	4454 Physical Chem II ..... 4
		Gen Educ Crses ..... 6	OR Chemistry Elective
Total:..... 15	Total: ..... 14	Total: ..... 15	Total: ..... 15

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



# BACHELOR OF SCIENCE ENGINEERING PHYSICS

## GENERAL EDUCATION

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

**TOTAL HOURS**..... 43- 44

**Composition** .....6

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

**Mathematics**.....3

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications** .....2

COMSC 1022 **Computer & Information Access**

**Natural Sciences** .....8

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 **General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts** .....6

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government** .....6

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies** .....6

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies** ..... 6 - 7

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Engineering Physics Major Code No. 153

**Required Courses** .....47 - 48 hours

PHY 2011 Introduction to Physics and Engineering  
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** ..... 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

*\*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.*

## 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 (including last 8) .....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		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	2145 Gen Physics I..... 5	2155 Gen Physics II ..... 5	3403 Modern Physics ..... 3
2011 Intro to Phys & Eng..... 1	1303 Gen Chem II ..... 3	2834 Calculus II ..... 4	3411 Mod Phys Lab ..... 1
1113 English Comp I ..... 3	1352 Chem II Lab..... 2	2203 Rigid Body Mechanics ... 3	2213 Strength of Materials ..... 3
1203 Gen Chem I..... 3	1834 Calculus I..... 4	Gen Educ Courses ..... 3	3834 Calculus III..... 4
1252 Chem I Lab..... 2	1213 English Comp II..... 3		Gen Educ Courses ..... 3
1715 College Alg/Trig ..... 5			
1022 Comp & Info Access ..... 2			
Total: ..... 17	Total: ..... 17	Total: ..... 15	Total: ..... 14

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3112 Expt Techniques ..... 2-4	3424 Optics..... 4	3112 Expt Techniques ..... 2-4	3424 Optics ..... 4
OR 4644 Elec & Mag I	OR 3544 Digital Elec	OR 4644 Elec & Mag I	OR 3544 Digital Elec
3573 Heat Transfers ..... 3	3603 Mechanics..... 3	3573 Heat Transfer ..... 3	3603 Mechanics ..... 3
OR 4723 Quant Mech	OR 3563 Thermo	OR 4723 Quant Mech	OR 3563 Thermo
4213 Diff Equations ..... 3	Engineering Graphics ..... 2-3	Physics Elective..... 3-4	4011 Physics Seminar ..... 1
Gen Educ Courses ..... 5-7	Gen Educ Courses ..... 4-5	Gen Educ Courses ..... 3-6	Gen Educ Courses ..... 6
Total: ..... 15	Total: ..... 14	Total: ..... 14	Total: ..... 14

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

# INTERDISCIPLINARY STUDIES

## COLLEGE OF ARTS AND SCIENCES

Dr. Radwan Al-Jarrah, Dean  
Science Building, Room 210  
Phone: (580) 774-3704  
E-mail: [radwan.aljarrah@swosu.edu](mailto:radwan.aljarrah@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 for learners.
- 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

## GENERAL EDUCATION

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

**TOTAL HOURS..... 43 - 44**

**Composition..... 6**

**ENGL 1113 English Composition I**

**ENGL 1213 English Composition II**

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

MATH 1143 Math Concepts

MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences ..... 8**

**BIOL 1004 Biological Concepts (required)\***

SCI 1514 Concepts of Physical Science

ASTRO 1904 Astronomy

GEOL 1934 Physical Geology

CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey

LIT 2413 Intro to Literature

MUSIC 1013 Intro to Music I

PHILO 1453 Intro to Philosophy

COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

**POLSC 1103 American Government & Politics**

**HIST 1063 U.S. History**

**Economic & International Studies..... 6**

HIST 1033 World History

GEOG 1103 World Cultural Geography

ECONO 2263 Intro to Macroeconomics **OR**

ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 General Psychology

SOCIO 1003 Intro to Sociology

\_\_\_\_ 4 World Languages

TECH 1223 Technology and Society

HPE 1133 Wellness Concepts & Exercise  
Applications

\*Students who select Biology as a discipline area, must take  
BIOL 1054 Principles of Biology in place of Biological Concepts.

## Interdisciplinary Studies Major/Minor

**Code No. 190**

**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	History
Art	Math
Biology	Music
Business	Physics
Chemistry	Political Science
Communication Arts	Psychology
Computer Science	Parks & Rec. Mngmt
Criminal Justice	Social Work
Education	Spanish
English	Technology

*Maximum Independent Study / Directed Reading courses are limited to one course per discipline.*

**Free Electives ..... 12-13**

### Total Minimum 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.*

### REGULATION 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

(including last 8)..... 30

Minimum grade point average in all coursework..... 2.00

### FOR INFORMATION CONTACT:

Dr. Radwan Al-Jarrah

[radwan.aljarrah@swosu.edu](mailto:radwan.aljarrah@swosu.edu)

(580) 774-3704

**DISCIPLINE AREA REQUIREMENTS** (Choose 3 areas with 21 hours each to total 63 hours)**ALLIED HEALTH SCIENCES**

ALHLT1401	Allied Health Careers	ALHLT4523	Environ Microbiology	MEDRC3333	Coding I
ALHLT2442	Medical Terminology	ALHLT4523L	Environ Micro Lab	MEDRC3333L	Coding I Lab
ALHLT3193	Health Care Delivery	ALHLT4802	History of Medicine	MEDRC3342	Coding II
ALHLT3933	Mngmt Hlth Care Inst	ALHLT4872	Hominology	MEDRC4023	Hlth Inf Application
ALHLT3963	Health Care Adm	MEDRC3023	Health Info Systems	MEDRC4023L	Hlth Inf Appl Lab
ALHLT4093	Epidemiology	MEDRC3023L	Health Info Sys Lab	MEDRC4033	Health Inform Mngmt
ALHLT4213	Immunology	MEDRC3033	Intro Hlth Information	MEDRC4033L	Health Infor Mngmt Lab
ALHLT4355	Microbiology	MEDRC3033L	Intro Hlth Inform Lab	MEDRC4043	Medicolegal Concepts
ALHLT4355L	Microbiology Lab	MEDRC3043	Health Statistics	MEDRC4063	Pathophysiology I
ALHLT4404	Pathogenic Microbiolog	MEDRC3043L	Health Statistics Lab	MEDRC4073	Pathophysiology II
ALHLT4404L	Pathogenic Micro Lab	MEDRC3052	Advanced Med Term I	MEDRC4082	HIM Seminar
ALHLT4453	Virology	MEDRC3072	Adv Medical Term II	MEDRC4112	Quality Improvement

**ART**

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

**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	BIOL 3504	Natural History	BIOL 4284L	Animal Parasitology Lab
BIOL 1054L	Princ Biology Lab	BIOL 3504L	Natural History Lab	BIOL 4314	Environmental Biology
BIOL 2204	Introductory Zoology	BIOL 3604	General Entomology	BIOL 4314L	Environmental Biology Lab
BIOL 2204L	Intro Zoology Lab	BIOL 3604L	General Entomology Lab	BIOL 4454	Plant Taxonomy
BIOL 2404	Introductory Botany	BIOL 3704	Human Anatomy	BIOL 4454L	Plant Taxonomy Lab
BIOL 2404L	Intro Botany Lab	BIOL 3704L	Human Anatomy Lab	BIOL 4604	General Ecology
BIOL 3012	Biol Terminology	BIOL 3804	Plant Physiology	BIOL 4604L	General Ecology Lab
BIOL 3254	Genetics	BIOL 3804L	Plant Physiology Lab	BIOL 4622	Econ Import Plants
BIOL 3254L	Genetics Lab	BIOL 3904	Human Physiology	BIOL 4933	Cellular Physiology
BIOL 3304	Aquatic Biology	BIOL 3904L	Human Physiology Lab	BIOL 4964	Molecular Biology
BIOL 3304L	Aquatic Biology Lab	BIOL 4154	Developmental Biology	BIOL 4964L	Molecular Biology Lab
BIOL 3403	Plant Morphology	BIOL 4154L	Developmental Biol. Lab	BIOL 4974	Histology
BIOL 3403L	Plant Morphology Lab	BIOL 4284	Animal Parasitology	BIOL 4974L	Histology Lab

**BUSINESS**

ACCTG2213	Principles Acctg I	ECONO2463	Business Statistics	GEBUS3223	Commercial Law
ACCTG2313	Princ Acctg II	ECONO3863	Money and Banking	GEBUS3323	Estates, Prop, Bus Org
ACCTG3213	Acctg Info Systems	ECONO4013	Sem in Economics	GEBUS3373	Info Systems & Tech
ACCTG3313	Intermediate Acctg I	ECONO4563	Managerial Economics	GEBUS3423	Busin Communications
ACCTG3323	Intermediate Acctg II	ECONO4963	International Economic	GEBUS3723	International Business
ACCTG3333	Intermediate Acctg III	FINAN3213	Risk Management	GEBUS3823	Quantitative Meth Bus
ACCTG3523	Income Tax Acctg I	FINAN3313	Real Estate	GEBUS3923	Adv Comp Business App
ACCTG3613	Income Tax Acctg II	FINAN3343	Business Finance	GEBUS4013	Sem In Gen Bus
ACCTG3713	Cost Accounting	FINAN3353	Personl Financial Plan	GEBUS4123	Professional Issues
ACCTG4013	Sem In Accounting	FINAN3493	Analyzing Finan Statem	MIFOS3113	Intro to MIS
ACCTG4113	Acctg Not for Prof Org	FINAN3663	Investments	MNGMT3233	Management
ACCTG4213	Auditing I	FINAN4013	Sem in Finance	MNGMT3333	Human Resource Mngmt
ACCTG4513	Auditing II	FINAN4063	Financial Inst & Mkt	MNGMT3433	Administrative Theory
ACCTG4613	Advanced Accounting	FINAN4213	Commercial Bank Mngmt	MNGMT3533	Organizational Behav
ACCTG4623	Accounting Theory	FINAN4263	Financial Management	MNGMT4013	Sem In Management
ACCTG4643	Glob/Acctg Fin & Inves	FINAN4763	Opt, Fut & Der Securit	MNGMT4133	Prod/Oper Management
ACCTG4763	Adv Cost/Manager Topic	GEBUS2723	Computer Business App	MNGMT4433	Entrepren/New Ventur
ECONO2263	Intro To Macroeconomic	GEBUS3123	Legal Env of Business	MNGMT4633	International Mngmt
ECONO2363	Intro To Microeconomic	GEBUS3173	Info/Records Mgmt Sys	MNGMT4923	Strat Mngmt & Policy

MRKTG3143	Principles of Marketng	MRKTG4013	Seminar in Marketing	MRKTG4443	Channel of Distribution
MRKTG3243	Promotional Strategy	MRKTG4143	Marketing Management	MRKTG4543	Industrial Mrktg
MRKTG3443	Market/Consumer Behv	MRKTG4243	Marketing Research	MRKTG4643	International Mrktg

### 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 Chemistr	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		

### COMMUNICATIONS

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

### COMPUTER SCIENCE

COMSC1033	Computer Science I	COMSC3053	Operating Systems	COMSC4033	Programming Languages
COMSC1053	Computer Science II	COMSC3103	Hardware/Software Conc	COMSC4053	Object-Oriented Prog
COMSC1433	Visual Basic Programming	COMSC3133	Software Engineering	COMSC4133	Des & Anal of Com. Algo
COMSC2053	JAVA Programming	COMSC3153	Data Communica/Network	COMSC4433	Database Systems
COMSC2463	C# Programming	COMSC3353	Sys Analysis and Design	COMSC4453	Advanced Database System
COMSC2433	Programmers Visual Bas	COMSC3513	IS Project Management	COMSC4503	Information Sys & Security
COMSC2503	Info Sys in Organizations	COMSC3913	Web Development	COMSC4513	Decision Sup & Expert Sys
COMSC2913	Internet Telecomputing	COMSC3933	Multi Sys – Des & Eval	COMSC4913	Web Development II
COMSC3013	Computer Organization	COMSC4001	Ind Study Comp Sci	COMSC4921-3	Computer Sci Internship
COMSC3033	Data Structures	COMSC4011	Computer Science Sem	COMSC4953	Capstone I
COMSC3043	Systems Programming	COMSC4023	Discrete Structures	COMSC4963	Capstone II

### CRIMINAL JUSTICE

CRMJS1113	Intro Criminal Justice	CRMJS3803	Privat of Criminal Justice	CRMJS4153	U.S. Corrections
CRMJS2503	Criminal Justice Admin	CRMJS4013	Sem/Criminal Justice	CRMJS4333	Victimology
CRMJS3163	Socio Devnt & Crim Beh	CRMJS4103	Juvenile Justice	CRMJS4413	Law Enforcement Policy
CRMJS3243	Comp Crim Justice System	CRMJS4143	Crit Issues Criminal Just		

### 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	HPE 3553	M&M in Elem HPER	RDNG 3432	Teaching of Reading II
EDPSY3413	Child Psychology	LIBED 3423	Media & Technology	RDNG 4443	Diag Prac Tchng Reading
EDUC 2113	Foundations of Educ	LIT 4463	Children's Literature	SCI 3314	Geol Science Elem Teacher
ELEM 3453	Lang Arts in El Sch	MATH 1503	Algebra for Elem Tchrs	SCI 3314L	Geol Sci/Elem Tchrs Lab
ELEM 3513	CMM Math Elem Tchrs	MATH 2133	Geometry for Elem Tchr	SCI 4352	Tchng Sci in Elem School
ELEM 3522	CMM/Social Stu/Elem Tc	MUSIC 3202	Mus Meth Elem Tchrs	SPCED3132	Exceptional Children
ELEM 4222	Phonics & Penmanship	RDNG 3423	Teaching of Reading I	SPCED3213	Intro to Special Educ

**ENGLISH**

ENGL 2011	Sem in Engl	ENGL 4653	Writing for Multimedia	LIT 3463	19th Cent Am Realism
ENGL 2012	Sem in Engl	ENGL 4663	Creative Nonfiction	LIT 3493	Modern Drama
ENGL 2013	Sem in Engl	ENGL 4675	Teaching of HS English	LIT 3513	Lit of the Amer West
ENGL 2014	Sem in Engl	LIT 2001	Ind Study Literature	LIT 3523	Victorian Poetry
ENGL 2703	Creative Writing	LIT 2002	Ind Study Literature	LIT 3533	Brit Renaissance Drama
ENGL 3013	Writing Theory/Practice	LIT 2003	Ind Study Literature	LIT 3543	Literature of South
ENGL 3113	Contemporary Fiction	LIT 2004	Ind Study Literature	LIT 3613	Amer Romantic Period
ENGL 3123	Contemporary Poetry	LIT 2011	Sem in Literature	LIT 4001	Ind Study Literature
ENGL 3473	Beg Creat Writ of Fiction	LIT 2012	Sem in Literature	LIT 4002	Ind Study Literature
ENGL 3483	Beg Creat Writ of Poetry	LIT 2013	Sem in Literature	LIT 4003	Ind Study Literature
ENGL 3553	Writing for the Workplace	LIT 2014	Sem in Literature	LIT 4004	Ind Study Literature
ENGL 3603	English Grammar	LIT 2333	Intro to Film	LIT 4011	Seminar in Literature
ENGL 4002	Ind Study in English	LIT 2543	Myster/Detect Fiction	LIT 4012	Seminar in Literature
ENGL 4003	Ind Study In English	LIT 2743	Mythology	LIT 4013	Seminar in Literature
ENGL 4004	Ind Study In English	LIT 2833	Science Fiction	LIT 4014	Seminar in Literature
ENGL 4012	Sem in English	LIT 3023	Literature Theory/Practice	LIT 4113	Modern World Literature
ENGL 4013	Sem in English	LIT 3033	World Mythology	LIT 4232	Bks and Mat Yng People
ENGL 4014	Sem in English	LIT 3113	Early World Literature	LIT 4473	Mod Brit and Amer Poetry
ENGL 4423	Intro to Linguistics	LIT 3223	Romantic Movement	LIT 4593	Diversity in Amer Lit
ENGL 4453	Advanced Composition	LIT 3333	Shakespeare in Context	LIT 4623	17 <sup>th</sup> Cent Engl Poetry
ENGL 4473	Adv Creat Writ of Poetry	LIT 3343	World Folk Literature	LIT 4883	Women and Literature
ENGL 4483	Adv Creat Writ of Fiction	LIT 3443	Middle English/Chaucer	LIT 4993	The Novel
ENGL 4553	Tech Writing & Editing	LIT 3453	Age of Reason		

**HEALTH AND PHYSICAL EDUCATION**

HPE 1153	Nutrition	HPE 2242	Sports Officiating	HPE 4122	Org & Adm Athletics
HPE 1932	Tech Ap Gym Fit Aqua	HPE 2502	Care/Prev of Athl Inj	HPE 4222	Org&Mgmt Intra Sport
HPE 1942	Tech App Indiv Sports	HPE 3333	Safety Education	HPE 4243	Ther/Prescrip Phy Ed
HPE 1952	Tech Appl to Team Sprt	HPE 4052	Sociology of Sports	HPE 4802	Theo Coach Football
HPE 2212	First Aid	HPE 4063	Legal Aspect HPER/Athl	HPE 4832	Theo Coach Bsktball
HPE 2222	Foundations of HPER	HPE 4113	Org/Adm HPER	HPE 4862	Theo Coach Baseball

**HISTORY**

HIST 3033	Historians/Middle Ages	HIST 4001	Ind Study History	HIST 4083	Contemporary America
HIST 3043	Early Modern Europe	HIST 4011	Seminar in History	HIST 4093	Historical Resrch/Writ
HIST 3063	Modern Ireland	HIST 4012	Seminar in History	HIST 4103	American Indians
HIST 3073	19th Century Europe	HIST 4013	Seminar in History	HIST 4133	Women in American Hist
HIST 3083	Nationalism/Ethnicity	HIST 4014	Seminar in History	HIST 4313	American West
HIST 3093	20th Century Europe	HIST 4023	Colonl Amer, 1492-1765	HIST 4353	History of Oklahoma
HIST 3103	Medieval England	HIST 4033	Revol Amer, 1765-1808	HIST 4901	Dir Read In History
HIST 3113	Elizabeth I	HIST 4043	New Nation/Age Jackson	HIST 4902	Dir Read In History
HIST 3203	History of Germany	HIST 4053	Civil War & Reconstr	HIST 4903	Dir Read In History
HIST 3303	Hist Imperial Russia	HIST 4063	Gilded Age: 1877-1920	HIST 4904	Dir Read In History
HIST 3403	Modern France	HIST 4073	20th Cent Amer 1920-60		

**MATHEMATICS**

MATH 1513	College Algebra	MATH 3113	Foundations In Math	MATH 4004	Ind Study in Math
MATH 1613	College Trigonometry	MATH 3413	Statistical Methods I	MATH 4011	Sem in Mathematics
MATH 1715	College Algebra & Trig	MATH 3433	Statistics I	MATH 4012	Sem in Mathematics
MATH 1834	Calculus I	MATH 3453	Mathematical Stats	MATH 4013	Sem in Mathematics
MATH 2001	Ind Study Mathematics	MATH 3473	Intro to Probability	MATH 4014	Sem in Mathematics
MATH 2002	Ind Study Mathematics	MATH 3533	Tech/Prog Mathematics	MATH 4133	Intro to Math Logic
MATH 2003	Ind Study Mathematics	MATH 3553	Numerical Analysis	MATH 4152	History of Mathematics
MATH 2004	Ind Study In Mathematic	MATH 3653	Linear Algebra	MATH 4213	Differ Equations I
MATH 2011	Sem in Mathematics	MATH 3673	Elem Number Theory	MATH 4223	Differ Equations II
MATH 2012	Sem in Mathematics	MATH 3713	College Geometry	MATH 4233	Vector Analysis
MATH 2013	Sem in Mathematics	MATH 3834	Calculus III	MATH 4653	Modern Algebra
MATH 2014	Sem in Mathematics	MATH 4001	Ind Study In Math	MATH 4753	Intro Point Set Topolo
MATH 2823	Applied Calculus	MATH 4002	Ind Study In Math	MATH 4853	Advanced Calculus
MATH 2834	Calculus II	MATH 4003	Ind Study In Math	MATH 4873	Complex Variables

**MUSIC**

Required	MUSIC1214	Music Theory I
Required	MUSIC1032	Introduction To Music II
Required	MUSIC2981	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.)

MUSIC1691	Orchestral Instruments	MUSIC1592	Organ	MUSIC2391	Piano
MUSIC1692	Orchestral Instruments	MUSIC2491	Organ	MUSIC2392	Piano
MUSIC1791	Orchestral Instruments	MUSIC2492	Organ	MUSIC1091	Voice
MUSIC1792	Orchestral Instruments	MUSIC2591	Organ	MUSIC1092	Voice
MUSIC2691	Orchestral Instruments	MUSIC2592	Organ	MUSIC1192	Voice
MUSIC2692	Orchestral Instruments	MUSIC1291	Piano	MUSIC2091	Voice
MUSIC2791	Orchestral Instruments	MUSIC1292	Piano	MUSIC2092	Voice
MUSIC2792	Orchestral Instruments	MUSIC1391	Piano	MUSIC2191	Voice
MUSIC1491	Organ	MUSIC1392	Piano	MUSIC2192	Voice
MUSIC1492	Organ	MUSIC2291	Piano		
MUSIC1591	Organ	MUSIC2292	Piano		

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

MUSIC2811	Class Piano I
MUSIC2821	Class Piano II

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

MUSIC1411	Brass Class
MUSIC1511	Woodwind Class
MUSIC1611	Percussion Class
MUSIC1711	String Class
MUSIC1911	Begin Guitar Class
MUSIC2101	Voice Class

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

MUSIC4021	Woodwind Ensemble	MUSIC4041	Percussion Ensemble	MUSIC4071	Jazz Ensemble
MUSIC4031	Brass Ensemble	MUSIC4051	Orchestra	MUSIC4101	Band
MUSIC4141	Chorus				

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

**Electives - Select 5 hours from the following list**

MUSIC1112	Fund of Music	MUSIC2101	Voice Class	MUSIC3253	Music Theory III
MUSIC1314	Music Theory II	MUSIC2831	Class Piano III	MUSIC3303	Music Theory IV
MUSIC1411	Brass Class	MUSIC2841	Class Piano IV	MUSIC3331	Jazz Improvisation
MUSIC1511	Woodwind Class	MUSIC3101	Instrumental Conducting	MUSIC3353	History of Music I
MUSIC1611	Percussion Class	MUSIC3101L	Instrument Cond Lab	MUSIC3403	History of Music II
MUSIC1711	String Class	MUSIC3151	Choral Conducting	MUSIC4261	Intro to Music Tech
MUSIC1911	Begin Guitar Class	MUSIC3151L	Choral Conduct Lab		

**PARKS AND RECREATION MANAGEMENT**

PRM 2102	Found of Parks and Rec	PRM 3421	Basic Ropes Course	PRM 4201	Park Ranger
PRM 3113	Sailing, Canoeing, Hiking and Climbing	PRM 3432	Ropes Course Facilitation	PRM 4211	Game and Fish Law
		PRM 3441	High Angle Rescue	PRM 4221	Small Craft Safety
PRM 3122	Wilderness First Aid	PRM 3452	Advanced Ropes	PRM 4231	Custody and Control
PRM 3133	Emergency Response	PRM 3663	Recreation Management	PRM 4241	Firearm Safety
PRM 3152	Scuba	PRM 3702	Rec Areas and Fac Manage	PRM 4502	Rodeo Management
PRM 3161	Lifeguarding	PRM 4011	Sem in PRM	PRM 4663	Outdoor Recreation
PRM 3162	Adv SCUBA/SLAM	PRM 4012	Sem in PRM	PRM 4773	Nat Res Rec Management
PRM 3171	Lifeguard Instructor	PRM 4013	Sem in PRM	PRM 4993	Internship in Pro Rec
PRM 3211	Outdoor Ed/Adv Program	PRM 4014	Sem in PRM		
PRM 3221	Outdoor Ed for Tchrs	PRM 4163	Community Recreation		

**PHYSICS**

ASTRO4011	Sem In Astronomy	PHY 1044	Basic Physics I	PHY 2012	Seminar in Physics
ASTRO4012	Sem In Astronomy	PHY 1044L	Basic Physics I Lab	PHY 2013	Seminar in Physics
ASTRO4013	Sem In Astronomy	PHY 1054	Basic Physics II	PHY 2014	Seminar In Physics
ASTRO4014	Sem In Astronomy	PHY 1054L	Basic Physics II Lab	PHY 2145	General Physics I
GEOL 4011	Seminar in Geology	PHY 1064	General Physics	PHY 2145L	General Physics I Lab
GEOL 4012	Seminar in Geology	PHY 1072	Intro Electronics	PHY 2155	General Physics II
GEOL 4013	Seminar in Geology	PHY 1072L	Intro Electronics Lab	PHY 2155L	Gen Physics II Lab
GEOL 4014	Seminar in Geology	PHY 2011	Seminar in Physics	PHY 2203	Rigid Body Mechanics



PHY 2213	Strength of Materials	PHY 3501	Physics Seminar (Topic)	PHY 4011	Seminar In Physics
PHY 3013	Materials Science	PHY 3523	Solid-State/Nucl Phys	PHY 4012	Seminar in Physics
PHY 3112	Expermntl Techniques	PHY 3523L	Solid-State/Nucl Lab	PHY 4013	Seminar in Physics
PHY 3243	Lin Circuit Analysis	PHY 3544	Digital Electronics	PHY 4014	Seminar in Physics
PHY 3303	History of Physics	PHY 3544L	Digital Electronic Lab	PHY 4644	Elect/Magnetism I
PHY 3311	Modern Phy/Engnrs Lab	PHY 3563	Thermodynamics	PHY 4644L	Elect/Magnetism I Lab
PHY 3403	Modern Physics/Enginr	PHY 3573	Heat Transfer	PHY 4663	Elect/Magnetism II
PHY 3413	Analog Electronics	PHY 3583	Meth Theoretical Phys	PHY 4723	Quantum Mechanics
PHY 3413L	Analog Electronics Lab	PHY 3603	Mechanics I	PHY 4743	Solid State Physics
PHY 3424	Optics	PHY 3603L	Mechanics I Lab	PHY 4763	Nuclear Physics
PHY 3424L	Optics Lab	PHY 3633	Fluid Mechanics		

#### POLITICAL SCIENCE

POLSC2303	Comparative Politics	POLSC3113	Political Theory	POLSC4233	Urban Politics & Elections
POLSC2623	Criminal Law & Procedure	POLSC3163	Prin International Rela	POLSC4303	International Organ
POLSC2803	The Judicial Process	POLSC3323	Legislative Exec Relations	POLSC4403	Public Policy Formation
POLSC3003	Federal Constitution	POLSC3343	Women & Politics	POLSC4613	Civil Rights/Liberties
POLSC3033	Political Parties	POLSC3363	Public Adm Theory/Prac		

#### PSYCHOLOGY

EDPSY3413	Child Psychology	PSYCH3014	Seminar in Psychology	PSYCH4001	Ind Study Psychology
EDPSY3433	Adolescent Psychology	PSYCH3173	Applied Psychology	PSYCH4002	Ind Study Psychology
EDPSY3453	Education Psych (Elem)	PSYCH3201	Contemp Prob in Psych	PSYCH4003	Ind Study Psychology
EDPSY3653	Educational Psych (Sec)	PSYCH3202	Contemp Prob in Psych	PSYCH4004	Ind Study Psychology
PSYCH2001	Ind Study Psychology	PSYCH3203	Contemp Prob in Psych	PSYCH4011	Sem In Psych (Topic)
PSYCH2002	Ind Study Psychology	PSYCH3204	Contemp Prob in Psych	PSYCH4012	Sem In Psychology
PSYCH2003	Ind Study Psychology	PSYCH3213	Developmental Psych	PSYCH4013	Sem In Psychology
PSYCH2004	Ind Study Psychology	PSYCH3224	Research Methods	PSYCH4014	Sem In Psychology
PSYCH2011	Seminar in Psychology	PSYCH3224L	Research Methods Lab	PSYCH4113	Iss In Chem Dep Trtmt
PSYCH2012	Seminar in Psychology	PSYCH3233	Learning and Cognition	PSYCH4123	Theor & Princ of Psych
PSYCH2013	Seminar in Psychology	PSYCH3243	Cross-Cultural Psych	PSYCH4313	Intro Clinical Psych
PSYCH2014	Seminar in Psychology	PSYCH3253	Psychological Tests	PSYCH4333	Physiological Psych
PSYCH2313	Developmental Psych	PSYCH3274	Psych of Motivation	PSYCH4343	Psych of Perception
PSYCH2413	Adv General Psychology	PSYCH3274L	Psych Motivation Lab	PSYCH4371	Psychological Research
PSYCH2423	Social Psychology	PSYCH3322	Abnormal Psychology	PSYCH4372	Psychological Research
PSYCH2433	Psychological Statist	PSYCH3323	Abnormal Psychology	PSYCH4373	Psychological Research
PSYCH2511	Honors Sem in Psych	PSYCH3333	Behavior Management	PSYCH4374	Psychological Research
PSYCH2512	Honors Sem in Psych	PSYCH3363	Psych of Personality	PSYCH4391	Adv Seminar in Psych
PSYCH2513	Honors Sem in Psych	PSYCH3503	Indust/Org Psychology	PSYCH4392	Adv Seminar in Psych
PSYCH2514	Honors Sem in Psych	PSYCH3611	Pract in Career Areas	PSYCH4393	Adv Seminar in Psych
PSYCH3011	Seminar in Psychology	PSYCH3612	Pract in Career Areas	PSYCH4394	Adv Seminar in Psych
PSYCH3012	Seminar in Psychology	PSYCH3613	Pract in Career Areas	PSYCH4423	Marriage/Family Dynmic
PSYCH3013	Seminar in Psychology	PSYCH3614	Pract in Career Areas	PSYCH4533	Language Development

#### SOCIAL WORK

PSYCH2433	Psychological Statistics	SOCWK3503	Social Welfare Pol & Serv	SOCWK4603	Micro Systems Practice
SOCWK2503	Intro to Social Work	SOCWK3863	Research for Social Work	SOCWK4613	Small Group Practice
SOCWK3263	Human Beh & Soc Env I	SOCWK4013	Sem:Child Abuse & Neglect	SOCWK4623	Macro Systems Practice
SOCWK3273	Human Beh & Soc Env II	SOCWK4313	Cultural Diversity	SOCSC3853	Statistics for Social Sci

#### SPANISH

SPAN 1054	Elementary Spanish I	SPAN 2153	Inter Spanish II	SPAN 4002	Ind Study in Spanish
SPAN 1154	Elementary Spanish II	SPAN 2353	Spanish Conversation	SPAN 4003	Ind Study in Spanish
SPAN 2001	Ind Study Spanish	SPAN 3153	Spanish Lit To 1800	SPAN 4004	Ind Study in Spanish
SPAN 2002	Ind Study Spanish	SPAN 3253	Span Lit Since 1800	SPAN 4010	Seminar in Spanish
SPAN 2003	Ind Study Spanish	SPAN 3353	Spanish-American Lit	SPAN 4011	Seminar in Spanish
SPAN 2004	Ind Study Spanish	SPAN 3553	Hispanic Life/Culture	SPAN 4012	Seminar in Spanish
SPAN 2011	Seminar in Spanish	SPAN 3652	Interm Spanish Convers	SPAN 4013	Seminar in Spanish
SPAN 2012	Seminar in Spanish	SPAN 3753	Readings in Spanish	SPAN 4014	Seminar in Spanish
SPAN 2013	Seminar in Spanish	SPAN 3853	Spanish Composition	SPAN 4553	Spanish Study Abroad
SPAN 2014	Seminar in Spanish	SPAN 4000	Ind Study in Spanish		
SPAN 2053	Inter Spanish I	SPAN 4001	Ind Study in Spanish		

## TECHNOLOGY

MFET 3183	Statics and Strengths	TECH 3263L	Machine Drafting I Lab	TECH 4253	Machine Drafting II
MFET 3183L	Statics and Strength Lab	TECH 3413	Manufacturing Process	TECH 4253L	Machine Drafting II Lab
MFET 3433	Automation/Robotics	TECH 3453	Industrial Plastics	TECH 4273	Practical Photography
MFET 3433L	Automation/Robotic Lab	TECH 3453L	Ind Plastics Lab	TECH 4273L	Pract Photography Lab
MFET 4443	Material Hand/Fac Plan	TECH 3463	Manufacturing Oper I	TECH 4283	Advanced Photography
MFET 4951	Capstone I	TECH 3513	Material Test/Analysis	TECH 4283L	Adv Photography Lab
MFET 4962	Capstone II	TECH 3513L	Mater Test/Analysi Lab	TECH 4293	Machine Design
TECH 1013	Electronic Devices	TECH 3523	Fabrication Process II	TECH 4293L	Machine Design Lab
TECH 1101	Intro to Technology	TECH 3523L	Fabrication Proc II Lb	TECH 4313	Const Systems I
TECH 1203	Engineering Drafting	TECH 3613	Power Systems	TECH 4313L	Const Systems Lab
TECH 1203L	Engineer Draft I Lab	TECH 3613L	Power Systems Lab	TECH 4343	Estimating I
TECH 1223	Technology & Society	TECH 3623	Fluid Power	TECH 4364	Furniture/Cabinet Make
TECH 1313	Wood Mat & Processes	TECH 3623L	Fluid Power Lab	TECH 4364L	Furn/Cabinet Make Lab
TECH 1313L	Wood Mat & Process Lab	TECH 3813	Electro/Mech Controls	TECH 4373	Economic Decision Anal
TECH 1323	Digital Electronics	TECH 3813L	Elect/Mech Control Lab	TECH 4383	Mech/Elect System Bldg
TECH 1813	Basic Electronics I	TECH 3823	Industrial Electronics	TECH 4433	Quality Control
TECH 1813L	Basic Elect I Lab	TECH 3823L	Indust Electronics Lab	TECH 4433L	Quality Control Lab
TECH 1913	Basic Electronics I	TECH 3833	Commun Electronics	TECH 4454	Computer Aided Manufac
TECH 2026	Telecommunications	TECH 3833L	Comm Electr Lab	TECH 4454L	Comp Aid Mfg (Cam) Lab
TECH 2113	Solid State Devices	TECH 3843	Telecommunications	TECH 4493	Manufacturing Oper II
TECH 2203	Communication Circuits	TECH 3843L	Telecommunications Lab	TECH 4514	Machine Tool Processes
TECH 2223	Electronic Circuit Ana	TECH 3853	Electronic Instrum	TECH 4514L	Mach Tool Process Lab
TECH 2423	Microprocessors	TECH 3853L	Electronic Instrum Lab	TECH 4583	Metrology & Metallurgy
TECH 2513	Fabrication Process I	TECH 3863	Elect Trouble Shooting	TECH 4583L	Metrology/Metallurgy L
TECH 2513L	Fabrication Proc I Lab	TECH 3863L	Elec Trouble Shoot Lab	TECH 4813	Networking Electron II
TECH 2543	Weld Proc & Metal	TECH 3873	Applied Electronics	TECH 4813L	Networking Elect II Lab
TECH 2543L	Weld Proc & Metal Lab	TECH 3873L	Applied Electronics Lab	TECH 4823	Digital Electronics
TECH 2813	Basic Electronics II	TECH 4003	Ind Study Technology	TECH 4823L	Digital Elect Lab
TECH 2813L	Basic Elec II Lab	TECH 4113	Hist/Phil Voc Adult Ed	TECH 4833	Micro Comp Elec
TECH 2913	Basic Electronics II	TECH 4123	Industrial Supervision	TECH 4833L	Micro Comp Elec Lab
TECH 3113	Industrial Safety	TECH 4223	Elect Circuit Design	TECH 4843	Programmable Controlrs
TECH 3143	Tech Presentations	TECH 4223L	Elect Cir Design Lab	TECH 4843L	Prog Controllers Lab
TECH 3173	Environmental Regulatn	TECH 4233	Graphic Comm Systems	TECH 4903	Manuf Enterprises
TECH 3203	Comp Aided Draft (Cad)	TECH 4233L	Graphic Comm Sys Lab	TECH 4903L	Manuf Enterprise Lab
TECH 3203L	Computer Aided Draft L	TECH 4243	Computer Aid Draft II		
TECH 3263	Machine Drafting I	TECH 4243L	Comp Aid Draft II Lab		

# DEPARTMENT OF LANGUAGE ARTS COLLEGE OF ARTS AND SCIENCES

## FACULTY

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## DEPARTMENTAL GOALS

### English

1. To strengthen the use of the English language as an effective means of oral and written expression.
2. To provide a knowledge of English grammatical concepts.
3. To foster the ability to evaluate, synthesize, and present research.
4. To cultivate critical, logical, and analytical thinking.
5. To promote an understanding of significant authors, works, genres, historical backgrounds, and recurrent themes of American, British, and world literature.
6. To encourage the use of a variety of critical paradigms.
7. To enhance knowledge of the multi-cultural diversity of the national and world communities through the study of literature.
8. To promote a functional understanding of foreign language and culture.
9. To provide skills and knowledge necessary to qualify for a variety of jobs and to continue education.
7. To encourage students to become more analytical and critical of the mass media.
8. To provide opportunities for students to develop marketable skills in print or broadcast media.
9. To provide opportunities for students to develop skills in theatre design, technology, and production by providing hands-on experience.
10. To assist students in developing critical thinking skills.
11. To provide opportunities for students to improve their communication skills through student publications and productions.
12. To provide opportunities for students to improve their theatre skills through an active theatre performance program.

### Communication Arts

1. To prepare students for entry into professions related to speech, 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 acting skills.
4. To expose students to historical and contemporary practices in communication arts.
5. To enhance students' skills in the oral interpretation of literature.
6. To facilitate students' understanding of the dynamics of human communication.
13. To provide opportunities for students to improve their communication skills through an active intercollegiate forensics program.
14. To make students aware of the increasing demand for effective communicators in the work force.
15. To develop students' appreciation of theatre arts for personal and community enrichment.
16. To provide educational and technological opportunities that meet the needs of the communication age.
17. 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.

### **PROGRAMS OF STUDY**

- Majors:** B.A. Communication Arts  
Mass Communication Emphasis  
Speech Communication Emphasis  
Theatre Emphasis  
B.A.Ed. English Education  
B.A. English  
Literature Emphasis  
Writing Emphasis
- Minors:** Communication Arts  
English  
Spanish
- Master:** M.Ed. English  
(See Graduate Catalog for more information.)

### **GENERAL INFORMATION**

The Language Arts Department offers numerous opportunities for students to practice their skills as readers, writers, speakers, actors, and editors.

Four full-length plays are typically presented yearly, with some shorter productions also offered.

Student organizations and activities supported by the department include Sigma Tau Delta, Pi Kappa Delta, Alpha Psi Omega, the English Club, the Southwestern Hispanic Club, the University Media Association, the Spanish Club, the Forensics Squad, Readers Theatre, and Midnight Theatre.

For more information, visit our web site at:

<http://www.swosu.edu/langarts/>

# BACHELOR OF ARTS ENGLISH

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
**LIT 2413 Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
**4 World Languages**  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise Applications

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 (including last 8).....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.**

## English Major Code No. 112

### Writing Emphasis

Required Courses .....21

ENGL 4663 Creative Nonfiction  
ENGL 4453 Advanced Composition  
ENGL 3553 Writing for the Workplace  
ENGL 3473 Beginning Creative Writing of Fiction  
ENGL 3483 Beginning Creative Writing of Poetry  
ENGL 3603 English Grammar  
ENGL 4423 Introduction to Linguistics

Guided Writing Elective (Select two of the following) .....6

ENGL 4483 Advanced Creative Writing of Fiction  
ENGL 4473 Advanced Creative Writing of Poetry  
ENGL 4553 Technical Writing and Editing  
ENGL 4653 Writing for Multimedia

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

ENGL 3113 Contemporary Fiction  
ENGL 3123 Contemporary Poetry

Senior level Literature Electives.....9

Department-wide Elective\* .....3

Total hours for major.....42

*\*NOTE: LIT 4463 does not count for credit in the English major.*

### Literature Emphasis

Required Courses .....27

ENGL 3603 English Grammar  
ENGL 3013 Writing Theory/Practice  
ENGL 3023 Literary Theory/Practice  
LIT 4763 British Literary Heritage to 1800  
LIT 4123 British Literature 1795-1950  
LIT 3323 Modern Voices in American Literature  
LIT 4553 Issues in American Literature  
LIT 4993 The Novel  
Select one World Lit option:  
LIT 3113 Early World Literature  
LIT 4113 Modern World Literature

Writing Elective (Select one of the following) .....3

ENGL 3483 Beginning Creative Writing of Poetry  
ENGL 3473 Beginning Creative Writing of Fiction  
ENGL 4663 Creative Nonfiction  
ENGL 3553 Writing for the Workplace  
ENGL 4653 Writing for Multimedia  
ENGL 4553 Technical Writing and Editing  
ENGL 4473 Advanced Composition

Guided 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

Senior level English elective (3000 or 4000 level) .....3

World Language: A course beyond Elementary I..... 3 - 4

Total hours for major.....42 - 43

**ENGLISH: Writing Emphasis (CODE 112)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1213 English Comp II..... 3	3603 English Grammar..... 3	3533 Writing for Workplace ..... 3
1113 English Comp I..... 3	1103 Amer Gov'Politics ..... 3	Elem Foreign Lang I..... 4	Minor Hours..... 3
1313 Intro to Public Speak ..... 3	1004 Biology Concepts..... 4	Natural Science ..... 4	Guided LIT elective ..... 3
2413 Intro to Literature ..... 3	Behav/Soc Sci..... 3	3473 Beginning Fiction ..... 3	Eco & Intern't Studies ..... 3
Mathematics..... 3	3483 Beginning Poetry ..... 3		Elem Foreign Lang II..... 4
Computer Applications ..... 2			
Total:..... 15	Total: ..... 16	Total: ..... 14	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4423 Intro to Linguistics ..... 3	Free Electives ..... 3	4663 Creative Non-Fiction ..... 3	Sr-level LIT Elective..... 3
Eco & Intern't Studies..... 3	Sr-level LIT Electives..... 3	Sr- level LIT Elective..... 3	Guided Writing Elective ..... 3
1063 US History ..... 3	Minor Hours ..... 6	Dept. Elective..... 3	Free Elective ..... 6
Minor Hours..... 6	Guided Writing Elective ..... 3	Minor Hours ..... 6	4453 Advanced Comp..... 3
Total:..... 15	Total: ..... 15	Total: ..... 15	Total:..... 15

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

**ENGLISH: Literature Emphasis (CODE 112)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1213 English Comp II..... 3	3023 Literary Theory/Prac..... 3	3013 Writing Theory/Prac ..... 3
1113 English Comp I..... 3	1103 Amer Gov'Politics ..... 3	Elem Foreign Lang I..... 4	3323 Mod Voices in Amer Lit ..... 3
1313 Intro to Public Speak ..... 3	1004 Biology Concepts..... 4	Natural Science ..... 4	Computer Applications ..... 2
2413 Intro to Literature ..... 3	1063 U.S. History ..... 3	Writing Elective ..... 3	Eco & Intern't Studies ..... 3
Behav/Soc Sci ..... 3			Elem Foreign Lang II..... 4
Mathematics..... 3			
Total:..... 16	Total: ..... 13	Total: ..... 14	Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3602 English Grammar ..... 3	4123 Brit Lit 1795-1950 ..... 3	Guided LIT Electives ..... 3	4993 The Novel ..... 3
4763 Brit. Lit to 1800..... 3	General Elective ..... 6	Sr- level ENGL Elective..... 3	General Electives ..... 6
4553 Issues in Amer Lit ..... 3	Minor Hours ..... 6	World Lit Elective..... 3	Minor Hours..... 3
Eco & Intern't Studies ..... 3		Minor Hours ..... 6	Guided LIT Electives..... 3
Minor Hours..... 6			
Total:..... 18	Total: ..... 15	Total: ..... 15	Total:..... 15

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

**COMMUNICATION ARTS**  
**SPEECH COMMUNICATION EMPHASIS (CODE 185)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1213 English Comp II .....3	2103 Intro to Mass Comm ..... 3	1263 Intro to Theatre.....3
1113 English Comp I.....3	2123 Interpersonal Comm.....3	Gen Educ Crses ..... 12	Minor ..... 3
1313 Intro to Public Spkng.....3	Gen Educ Crses.....9		Gen Educ Crses .....6
Gen Educ Crses .....8			Comm Arts Electives .....3
Total: .....15	Total:..... 15	Total: ..... 15	Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3453 Small Group Comm.....3	3073 Persuasion .....3	3553 Oral Interpretation..... 3	4343 Communication Theory .....3
3563 Argumen & Debate.....3	3573 Intercultural Comm .....3	Comm Arts Electives ..... 3	Comm Arts Elective ..... 3
General Electives.....3	4363 Organizational Comm .....3	General Electives ..... 6	General Electives .....6
Minor.....6	Minor .....6	Minor ..... 3	Minor ..... 3
Total: .....15	Total:..... 15	Total: ..... 15	Total: ..... 15

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

# BACHELOR OF ARTS COMMUNICATION ARTS

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications**..... **2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences**..... **8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts**..... **6**

ART 1223 Art Survey  
LIT 2413 **Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government** ..... **6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies**..... **6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies**..... **6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Language  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Communication Arts Major Code No. 185

Core Curriculum ..... 9

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

### Speech Communication Emphasis

Core Curriculum ..... 9

Required..... 21

COMM 3073 Persuasion  
COMM 3453 Small Group Communication  
COMM 3553 Oral Interpretation  
COMM 3563 Argumentation and Debate  
COMM 3573 Intercultural Communication  
COMM 4343 Communication Theory  
COMM 4363 Organizational Communication

Electives..... 10

### Theatre Emphasis

Core Curriculum ..... 9

Required..... 25

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

Must choose three hours from the following:

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

Electives..... 6

### Mass Communication Emphasis

Core Curriculum ..... 9

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..... 10

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

For the minor program, refer to the Communication Arts  
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 (including last 8) ..... 30

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

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



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

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	2123 Interpersonal Comm .....3	3761 Theatre Production ..... 1
1113 English Comp I ..... 3	2103 Intro to Mass Comm ..... 3	2363 Acting I .....3	Minor ..... 3
1263 Intro to Theatre ..... 3	2763 StagecraftI ..... 3	Gen Educ Crses .....9	Gen Educ Crses ..... 9
1313 Intro to Public Spkng... 3	3761 Theatre Production ..... 1		General Electives ..... 2
Gen Educ Crses ..... 5	Gen Educ Crses ..... 5		
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4463 Theatre History: Greek to 1660 ..... 3	4463 Theatre History: 1660 to Present ..... 3	3663 Script Analysis .....3	3761 Theatre Production ..... 3
3761 Theatre Production ..... 1	Comm Arts Elective ..... 3	General Electives .....6	4483 Play Directing ..... 3
Gen Educ Crse ..... 3	Gen Educ Crse ..... 3	Minor ..... 3	Comm Arts Elective ..... 3
Minor ..... 8	Minor ..... 6	Tech Theatre Course ..... 3	General Electives ..... 6
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 15

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

**COMMUNICATION ARTS  
MASS COMMUNICATION EMPHASIS (CODE 185)  
Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	2103 Intro to Mass Comm .....3	2123 Interpersonal Comm .....3
1113 English Comp I ..... 3	1263 Intro to Theatre ..... 3	2113 Writing for Mass Media .....3	2213 News Gathering & Reporting ..... 3
1313 Intro to Public Speak ..... 3	Gen Educ Crses ..... 9	Gen Educ Crses .....9	Gen Educ Crses ..... 6
Gen Educ Crses ..... 8			Minor ..... 3
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3113 News Editing ..... 3	3613 Specialized Pub ..... 3	4243 Media Production ..... 3	4293 Media, Law & Ethics ..... 3
3413 Desktop Publishing ..... 3	Comm Arts Elective ..... 6	Comm Arts Elective ..... 3	General Electives ..... 9
Gen Educ Crses ..... 3	Minor ..... 6	General Electives ..... 6	Minor ..... 3
Minor ..... 6		Minor ..... 3	
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 15

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

# DEPARTMENT OF MATHEMATICS

## COLLEGE OF ARTS AND SCIENCES

### FACULTY

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H. Le.....	CAM 309 F.....	<a href="mailto:hung.le@swosu.edu">hung.le@swosu.edu</a> .....	(580) 774-3058
C. Leonard.....	CAM 324 E.....	<a href="mailto:cheryl.leonard@swosu.edu">cheryl.leonard@swosu.edu</a> .....	(580) 774-3752
R. Rivera.....	CAM 309 A.....	<a href="mailto:roberto.rivera@swosu.edu">roberto.rivera@swosu.edu</a> .....	(580) 774-3759
B. Sticka.....	CAM 309 E.....	<a href="mailto:bill.sticka@swosu.edu">bill.sticka@swosu.edu</a> .....	(580) 774-3059
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### DEPARTMENTAL GOALS

1. To provide the basic skills and knowledge needed by all students who are preparing for a productive life in a rapidly changing technological 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 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. Math  
B.S.Ed. Math Education
- Minors:** Mathematics  
Statistics
- Master:** M.Ed. Math  
(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 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 major to be well prepared for a wide variety of career options. The mathematics and/or statistics minor would be excellent choices for students majoring in computer science, business, or the sciences.

### **GENERAL INFORMATION**

Incoming freshmen are placed in their first mathematics course according to their major, their mathematics background, and their enhanced ACT or CPT 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 adviser in planning his/her enrollment in mathematics.

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, Trigonometry, and Calculus I for students who wish to earn credit by examination in any of these courses.

A mathematics major or minor will provide students with many job opportunities in fields besides teaching, such as actuarial sciences, computer programming, agricultural economy, 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 or in pursuing a graduate degree in mathematics and/or computer science.

The Mathematics Department promotes technology in the teaching and learning of mathematics. Networked PC labs with Derive, Geometer Sketchpad, and SPSS are located within the department and in several campus buildings. In addition, several classroom sets of graphing calculators are often used as problem solving and investigative tools. All students enrolled in college algebra are loaned a graphing calculator.

Several junior and senior mathematics majors work in a help session to provide students with any extra math tutoring they might need.

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.

For more information, visit our web site at:  
<http://www.swosu.edu/math/>

# BACHELOR OF SCIENCE MATHEMATICS

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**REQUIRED HOURS** ..... **43 - 44**

**Composition** ..... **6**

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

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

**MATH 1143 Math Concepts**  
*MATH 1513 College Algebra OR*  
*higher numbered math course*

**Computer Applications**..... **2**

**COMSC 1022 Computers & Information Access**

**Natural Sciences**..... **8**

**BIOL 1004 Biological Concepts**  
*SCI 1514 Concepts of Physical Science*  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
*higher numbered chemistry course*

**Humanities & Fine Arts**..... **6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
*PHILO 1453 Intro to Philosophy*  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government**..... **6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**..... **6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
*ECONO 2263 Intro to Macroeconomics OR*  
*ECONO 2363 Intro to Microeconomics*

**Behavioral, Social, & Cultural Studies**..... **6-7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Introduction to Sociology**  
**\_\_\_\_ 4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Applications**

\*Waived due to major requirement

## Mathematics Major

**Code No. 134**

**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** ..... **6**  
(3000-4000 Level Courses)

**Computer Science** ..... **3**  
(Any Scientific Programming Language  
**OR MATH 3533 Technology and Programming in Mathematics**)

**Minor or Second Major**..... **18-40**

**Free Electives**..... **0-21**

**Electives to bring total to** ..... **120**

For the minor program, 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 (including last 8)** ..... **30**

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

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

# MATHEMATICS (CODE 134)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1213 English Comp II.....3	2834 Calculus II.....4	3834 Calculus III..... 4
1113 English Comp I.....3	1834 Calculus I.....4	Free Electives <sup>2</sup> .....3	3653 Linear Algebra ..... 3
1715 Coll Alg & Trig .....5	Gen Educ Crses.....7	Comp Programming <sup>1</sup> .....3	Gen Educ Crses..... 9
<b>or 1513 &amp; 1613</b>		Gen Educ Crses.....6	
Gen Educ Crses .....5			
Total: .....14	Total:.....14	Total:.....16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Math Electives <sup>3</sup> .....6	4213 Differ Equations.....3	4653 Modern Algebra .....3	4853 Advanced Calculus..... 3
Gen Educ Crses .....4	Math Electives <sup>3</sup> .....3	Gen Educ Crse .....3	Free Electives <sup>2</sup> ..... 12
Free Electives <sup>2</sup> .....5	Gen Educ Crses.....5	Free Electives <sup>2</sup> .....9	
	Free Electives <sup>2</sup> .....5		
Total: .....15	Total:.....16	Total:.....15	Total:..... 15

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

<sup>1</sup> Computer Programming: choose one from any scientific programming language OR MATH 3533 Technology and Programming in Mathematics

<sup>2</sup> Free Electives: Use to complete a second major or complete a double minor or complete a minor and take other courses of interest

<sup>3</sup> Math Electives: choose from any 3000-4000 level math course except elementary or secondary educ courses

# DEPARTMENT OF MUSIC

## COLLEGE OF ARTS AND SCIENCES

### FACULTY

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W. Hull .....	OKL	104 .....	<a href="mailto:william.hull@swosu.edu">william.hull@swosu.edu</a> .....	(580) 774-3217
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J. Stewart .....	FAB	108 .....	<a href="mailto:jonathan.stewart@swosu.edu">jonathan.stewart@swosu.edu</a> .....	(580) 774-3208
D. Widen .....	MUN	104 .....	<a href="mailto:dennis.widen@swosu.edu">dennis.widen@swosu.edu</a> .....	(580) 774-3216

### DEPARTMENTAL GOALS

The Objectives of the Department of Music are:

1. To enrich the students' understanding of music through the study of music literature, history, and theory.
2. To provide students with the knowledge and skills to teach music, work as a music therapist or in music business.
3. To provide students with experience and training in musical performance.
4. To serve the university community through the performance of musical compositions.

### PROGRAMS OF STUDY

#### Majors:

- B.M. Music Performance
  - Piano or Organ
  - Voice
  - Orchestral Instruments
- 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. Music Education
  - Choral Emphasis
  - Instrumental Emphasis
  - Piano Pedagogy
- M.M. Performance  
 (See Graduate Catalog for more information.)

### 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, with the permission of the instructor, in any of the following performing organizations: Marching Band (fall), Symphonic Band (spring), Jazz Ensemble "B", Woodwind Ensemble, Brass Ensemble, Percussion Ensemble, Men's Chorus, and Women's Chorus. All students of the university are eligible to audition for the following performing organizations: University Orchestra, Wind Ensemble (spring), Jazz Ensemble "A", Southwestern Singers and Chamber Choir.

**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* issued each fall. Some program requirements and procedures may be listed in the handbook rather than in this catalog. Each student must obtain current information concerning the degree program from that source.

For more information visit our web site at:

<http://www.swosu.edu/music/>

### **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 three levels of proficiency exams in their principal applied music area. Music minors must pass two levels of proficiency exams in their principal applied music area.

Level I (Principal Applied Music Area): An advisory exam that each student must take at the end of the second enrollment.

Level II (Principal Applied Music Area): Each student must take this exam at the end of the second semester following the Level I exam (normally in the spring of the sophomore year.)

Level III (Principal Applied Music Area): Each student must take this exam at the end of the second semester following the successful completion of the Level II exam (normally in the spring of the junior year.)

For purposes of proficiency exams, summer enrollments in applied music count as full semesters. Two semesters of study must elapse between the successful completion of Level II (sophomore) and the first attempt to pass Level III (junior).

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 at Level II (sophomore) at the end of their first enrollment under the new major and satisfy Level II and III proficiency requirements for the new degree program.

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 who fail to take or pass these exams at the appointed time may receive only the grades of W or F.

Students seeking degrees or registration in Music Therapy must pass proficiency examinations in piano and guitar before enrolling in 4242-4 Music Therapy V. Music Therapy students are subject to the same three level proficiency examinations in applied music 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 or Recital Attendance 4901 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

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS ..... 43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences..... 8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government ..... 6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies..... 6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies..... 6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

## Bachelor of Music

The Bachelor of Music major includes 37 hours of core requirements, a selected music specialty, and electives approved by the department to total 124 hours.

**Core Requirements ..... 37**

**MUSIC 1032 Introduction to Music II**  
**MUSIC 1214 Music Theory I**  
**MUSIC 1314 Music Theory II**  
**MUSIC 2981 Principles of Conducting**  
**MUSIC 3101 Instrumental Conducting**  
**OR MUSIC 3151 Choral Conducting**  
**MUSIC 3253 Music Theory III**  
**MUSIC 3303 Music Theory IV**  
**MUSIC 3353 History of Music I**  
**MUSIC 3403 History of Music II**  
**MUSIC 3502 Counterpoint**  
**MUSIC 4232 Instrumentation**  
**MUSIC 4261 Intro to Music Technology**  
**MUSIC 4900 Recital Attendance**

Instrumental OR Choral Ensembles, 8 hours (enroll each semester)

Majors must select one specialization from the following areas.

**Performance (Piano or Organ) Code No. 141**

**Required ..... 32**  
Principal Applied Area (Piano or Organ), 16 hours  
(One instrument, individual instruction only, enroll each semester)

Applied Music Proficiency Exams Level I, II, and III in Principal Area

Secondary Applied Area, 4 hours

Applied Music Proficiency Exams Level I and II in Secondary Area

**MUSIC 2861 Accompanying, 4 hours**  
**MUSIC 2901 Piano Ensemble and Accompanying**  
**MUSIC 4102 Forms and Analysis**  
**MUSIC 4352 Piano Pedagogy**  
**MUSIC 4552 Piano Literature**  
**MUSIC 4951 Senior Recital (Principal area)**

**Electives in Music ..... 7**

**Performance (Voice) Code No. 142**

**Required ..... 30**  
Applied Voice, 16 hours  
(Individual instruction only, enroll each semester)

Applied Music Proficiency Exams Level I, II, and III 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 4102 Forms and Analysis**  
**MUSIC 4452 Vocal Methods**  
**MUSIC 4951 Senior Recital (Voice)**  
Orchestral Instrument Classes, 2 hours

**Electives in Music ..... 9**

**Performance (Orchestral Instrument) Code No. 143**

Required .....	31
Principal Applied Music Area, 16 hours (One instrument, individual instruction only, enroll each semester)	
Applied Music Proficiency Exams Level I, II, and III in Principal Area	
Secondary Applied Music Areas (Orchestral instrument Classes), 4 hours Voice (Class or Applied), 2 hours (two semesters)	
MUSIC 2811 Class Piano I	
MUSIC 2821 Class Piano II	
MUSIC 2831 Class Piano III	
MUSIC 2841 Class Piano IV	
MUSIC 4102 Forms and Analysis	
MUSIC 4222 Instrumental Pedagogy	
<b>OR</b> MUSIC 4012 String Pedagogy	
MUSIC 4951 Senior Recital (Principal Area)	
Electives in Music .....	8

**Elective Studies in Business Code No. 146**

Required .....	39
Principal Applied Music Area, 8 hours (Choose only one orchestral instrument, piano, organ or voice, individual instruction only, enroll each semester)	
Applied Music Proficiency Exams Level I, II, and III 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 Instrum. Lit.	
<b>OR</b>	
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	
GEBUS 2723 Computer Business Applications	

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation .....	120
Minimum credit hours in the liberal arts & sciences .....	40
Minimum credit hours in upper-division (3000/4000 courses) .....	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU .....	8
Minimum credit hours at SWOSU (including last 8) .....	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		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1032 Intro to Music II .....2	2981 Prin of Conducting .....1	3101 or 3151 Conducting .....1
1013 Intro to Music I .....3	1213 English Comp II .....3	3253 Music Theory III .....3	3303 Music Theory IV .....3
1113 English Comp I .....3	1314 Music Theory II .....4	3353 History of Music I .....3	3403 History of Music II .....3
1214 Music Theory I .....4	4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	Gen Educ Crses .....3	Crse From List Below .....2	Gen Educ Crses .....4
Gen Educ Crse .....2	Instr or Choral Ens .....1	Gen Educ Crses .....3	Instr or Choral Ensemble .....1
Instr or Choral Ens .....1	Prin Applied Area .....2	Instr or Choral Ensemble .....1	Prin Applied Area .....2
Prin Applied Area .....2	Proficiency Exam I	Prin Applied Area .....2	Proficiency Exam II
		Voice Class .....1	Voice .....1
Total: .....16	Total: .....15	Total: .....16	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint .....2	4232 Instrumentation .....2	4102 Form and Analysis .....2	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance	4951 Senior Recital .....1
Crse From List Below .....2	Crse From List Below .....2	Crse From List Below .....2	Crse From List Below .....2
Foreign Language .....4	Gen Educ Crses .....4	Gen Educ Crses .....6	Gen Educ Crses .....6
Gen Educ Crse .....3	Instr or Choral Ensemble .....1	Instr or Choral Ensemble .....1	Instr or Choral Ensemble .....1
Instr or Choral Ensemble .....1	Music Elective .....2	Music Electives .....2	Music Electives .....2
Music Elective .....1	Prin Applied Area .....2	Prin Applied Area .....2	Prin Applied Area .....2
Prin Applied Area .....2	Proficiency Exam III		
Voice .....1	Voice .....1		
Total: .....16	Total: .....14	Total: .....15	Total: .....14

These required courses are offered at irregular intervals or may be taken at any time.

2861 Accompanying (4 Hrs)

2901 Piano Ensemble & Accomp

4352 Piano Pedagogy

4552 Piano Literature

4261 Intro to Music Technology

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

**Bachelor of Music with emphasis in MUSIC PERFORMANCE**  
**VOICE (CODE 142)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1032 Intro Music II .....2	2831 Class Piano III .....1	2841 Class Piano IV .....1
1013 Intro Music I .....3	1213 English Comp II .....3	2981 Prin of Conducting .....1	3151 Choral Conducting .....1
1113 English Comp I .....3	1314 Music Theory II .....4	3253 Music Theory III .....3	3303 Music Theory IV .....3
1214 Music Theory I .....4	2821 Class Piano II .....1	3353 History of Music I .....3	3403 History of Music II .....3
2811 Class Piano I .....1	4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	Applied Voice .....2	Applied Voice .....2	Applied Voice .....2
Applied Voice .....2	Choral Ens .....1	Choral Ens .....1	Choral Ens .....1
Choral Ens .....1	Gen Educ Crses .....3	Crse From List Below .....2	Gen Educ Crses .....5
	Proficiency Exam I	Gen Educ Crse .....3	Proficiency Exam II
Total: .....15	Total: .....16	Total: .....16	Total: .....16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint .....2	4232 Instrumentation .....2	4102 Form and Analysis .....2	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance	4951 Senior Recital .....1
Applied Piano .....1	Applied Piano .....1	Applied Voice .....2	Applied Voice .....2
Applied Voice .....2	Applied Voice .....2	Choral Ens .....1	Choral Ens .....1
Choral Ens .....1	Choral Ens .....1	Gen Educ Crses .....6	Gen Educ Crses .....6
Crse From List Below .....2	Crse From List Below .....2	Music Electives .....2	Music Electives .....3
Foreign Language .....4	Gen Educ Crses .....5		
Gen Educ Crse .....3	Music Elective .....2		
Music Elective .....2	Proficiency Exam III		
Total: .....17	Total: .....15	Total: .....13	Total: .....13

These required courses are offered at irregular intervals or may be taken at any time.

2951 Modern Language Diction

4261 Intro to Music Technology

4452 Vocal Methods

Orchestral Instr Classes (2 Hrs.)

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

**Bachelor of Music with emphasis in MUSIC PERFORMANCE**  
**ORCHESTRAL INSTRUMENT (CODE 143)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1032 Intro Music II..... 2	2101 Voice Class..... 1	2841 Class Piano IV..... 1
1013 Intro Music I..... 3	1213 English Comp II..... 3	2831 Class Piano III..... 1	3101 Instrum Conduct..... 1
1113 English Comp I..... 3	1314 Music Theory II..... 4	2981 Prin of Conducting..... 1	3303 Music Theory IV..... 3
1214 Music Theory I..... 4	2821 Class Piano II..... 1	3253 Music Theory III..... 3	3403 History of Music II..... 3
2811 Class Piano I..... 1	4900 Recital Attendance	3353 History of Music I..... 3	4900 Recital Attendance
4900 Recital Attendance	Applied Principal Instr..... 2	4900 Recital Attendance	Applied Principal Instr..... 2
Instrumental Ens..... 1	Instrumental Ens..... 1	Applied Principal Instr..... 2	Gen Educ Crses..... 4
Applied Principal Instr..... 2	Gen Educ Crses..... 3	Gen Educ Crse..... 3	Instrumental Ens..... 1
	Proficiency Exam I	Instrumental Ens..... 1	Secondary Applied..... 1
		Sec Instrument Class..... 1	Proficiency Exam II
Total:..... 15	Total:..... 16	Total:..... 16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint..... 2	2101 Voice Class..... 1	4102 Form and Analysis..... 2	4900 Recital Attendance
4222 Instrument Pedagogy..... 2	4232 Instrumentation..... 2	4261 Intro to Music Tech..... 1	4951 Senior Recital..... 1
4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance	Gen Educ Crses..... 6
Foreign Language..... 4	Gen Educ Crses..... 5	Gen Educ Crses..... 7	Instrumental Ens..... 1
Gen Educ Crse..... 3	Instrumental Ens..... 1	Instrumental Ens..... 1	Music Electives..... 3
Instrumental Ens..... 1	Music Electives..... 2	Music Electives..... 1	Applied Principal Instr..... 2
Music Electives..... 2	Applied Principal Instr..... 2	Applied Principal Instr..... 2	
Applied Principal Instr..... 2	Sec Instrument Class..... 2		
	Proficiency Exam III		
Total:..... 16	Total:..... 15	Total:..... 14	Total:..... 13

\* 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		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1213 English Comp II..... 3	2831 Class Piano III..... 1	2841 Class Piano IV..... 1
1113 English Comp I..... 3	1032 Intro Music II..... 2	2981 Prin of Conducting..... 1	3101 Instrumental
1013 Intro Music I..... 3	1314 Music Theory II..... 4	3253 Music Theory III..... 3	or 3151 Choral Conduct..... 1
1214 Music Theory I..... 4	2821 Class Piano II..... 1	3353 History of Music I..... 3	3303 Music Theory IV..... 3
2811 Class Piano I..... 1	4900 Recital Attendance	4900 Recital Attendance	3403 History of Music II..... 3
4900 Recital Attendance	Choral or Instr Ens..... 1	Choral or Instr Ens..... 1	4900 Recital Attendance
Choral or Instr Ens..... 1	Gen Educ Crses..... 3	Crses From List Below..... 2	Choral or Instr Ens..... 1
Principal Applied..... 1	Principal Applied..... 1	Gen Educ Crses..... 3	Gen Educ Crses..... 4
	Proficiency Exam I	Principal Applied..... 1	Principal Applied..... 1
	Instrument Class..... 1	Instrument Class..... 1	Instrument Class..... 1
Total:..... 14	Total:..... 16	Total:..... 16	Proficiency Exam II
			Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint..... 2	4232 Instrumentation..... 2	4402 Band Methods	4602 Instr Lit
4900 Recital Attendance	4900 Recital Attendance	or 4452 Vocal Methods..... 2	or 4502 Choral Lit..... 2
Choral or Instr Ens..... 1	Choral or Instr Ens..... 1	4900 Recital Attendance	4900 Recital Attendance
Crses From List Below..... 5	Crses From List Below..... 6	Choral or Instr Ens..... 1	4950 Senior Recital
Gen Educ Crses..... 6	Gen Educ Crses..... 4	Crses From List Below..... 3	Choral or Instr Ens..... 1
Principal Applied..... 1	Principal Applied..... 1	Gen Educ Crses..... 8	Gen Educ Crses..... 6
Instrument Class..... 1	Proficiency Exam III	Principal Applied..... 1	Internship..... 3
	Instrument Class..... 1		Principal Applied..... 1
Total:..... 16	Total:..... 15	Total:..... 15	Total:..... 13

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 Mktg/Cons Behavior  
MRKTG 3143 Prin of Marketing MRKTG 3243 Promotional Strategy GEBUS2723 Computer Business Applications  
\* First time entering Freshmen need to take 1001 Freshman Orientation

# BACHELOR OF MUSIC

## MUSIC THERAPY (Instrumental Emphasis)

### GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition .....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications.....2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences .....8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
**MUSIC 1013 Intro to Music**  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government .....6**

POLSC 1103 **American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

HIST 1033 **World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies .....6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

### 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 (including last 8).....30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

### Music Therapy Major (Instrumental Emphasis)

**Code No. 147**

**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 Music Therapy 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  
MUSIC 4182 Research and Statistics  
MUSIC 4213 Music Therapy III: MT in Special  
Education  
MUSIC 4242-4 Music Therapy V (Credit varies)  
MUSIC 4311 Field Studies IV

**Psychology and Biological Sciences.....12**

BIOL 2714 Human Anatomy and Physiology  
PSYCH 3213 Developmental Psychology  
SPCED 3132 Exceptional Children  
PSYCH 3323 Abnormal Psychology

**Music.....56**

MUSIC 1214 Music Theory I  
MUSIC 1314 Music Theory II  
MUSIC 1911 Beginning Guitar Class  
MUSIC 2981 Principles of Conducting  
MUSIC 3101 Instrumental Conducting  
MUSIC 3253 Music Theory III  
MUSIC 3303 Music Theory IV  
MUSIC 3353 History of Music I  
MUSIC 3403 History of Music II  
MUSIC 4232 Instrumentation  
MUSIC 4261 Intro to Music Technology  
MUSIC Elective in Advanced Elem. Methods, 2 hours  
MUSIC 4900 Recital Attendance, (each sem.)  
Applied Music (one orchestral instrument and/or piano)  
Principal Area, 6 hours  
Principal Area Proficiency Exams I, II, and III  
Applied Music (various orchestral instruments)  
Secondary Area, 3 hours  
Music Therapy Piano Proficiency Exam  
MUSIC 4950 Senior Recital  
MUSIC 2811 Class Piano I  
MUSIC 2821 Class Piano II  
MUSIC 2831 Class Piano III  
MUSIC 2841 Class Piano IV  
Voice, 2 hours (two semesters)  
Vocal Ensembles, 2 hours (two semesters)  
Instrumental Ensemble(s), 8 hours (enroll each sem.)  
Guitar (In addition to 1911) 1 hour  
Vocal Elective, 2 hours

# BACHELOR OF MUSIC

## MUSIC THERAPY (Vocal/Keyboard)

### GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications**..... **2**

**COMSC I1022 Computer & Information Access**

**Natural Science**..... **8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts**..... **6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** ..... **6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**..... **6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies**..... **6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
\_\_\_\_4 **World Language**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

### Music Therapy Major (Vocal/Keyboard Emphasis)

**Code No. 148**

**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 Music Therapy II: MT in Mental**  
Health/Illness  
**MUSIC 3123 Music Therapy IV: Psychology of Music**  
**MUSIC 3181 MT Competencies and Prof Ethics**  
**MUSIC 4020 Senior Research Project**  
**MUSIC 4182 Research and Statistics**  
**MUSIC 4213 Music Therapy III: MT in Special**  
Education  
**MUSIC 4242-4 Music Therapy V (Credit varies)**  
**MUSIC 4311 Field Studies IV**

**Psychology and Biological Sciences**..... **12**

**BIOL 2714 Human Anatomy**  
**PSYCH 3213 Developmental Psychology**  
**SPCED 3132 Exceptional Children**  
**PSYCH 3323 Abnormal Psychology**

**Music** ..... **56**

**MUSIC 1214 Music Theory I**  
**MUSIC 1314 Music Theory II**  
**MUSIC 1911 Beginning Guitar Class**  
**MUSIC 2981 Principles of Conducting**  
**MUSIC 3151 Choral Conducting**  
**MUSIC 3253 Music Theory III**  
**MUSIC 3303 Music Theory IV**  
**MUSIC 3353 History of Music I**  
**MUSIC 3403 History of Music II**  
**MUSIC 4261 Intro to Music Technology**  
Elective in Advanced Elem. Methods, 3 hours  
**MUSIC 4900 Recital Attendance (each semester)**  
Applied Music (voice or piano)  
Principal Area, 9 hours (enroll each semester)  
Principal Area Proficiency Exams I, II, and III.  
Applied Music (voice or piano)  
Secondary Area, 8 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.)  
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) 4 hours  
**MUSIC 4950 Senior Recital (Principal Area)**  
Music Therapy Piano Proficiency Exam  
Orchestral Instrument Class, 1 hour  
Guitar (In addition to 1911), 1 hour  
Choral Ensembles, 8 hours (enroll each semester)  
Instrumental Ensembles, 2 hours

### 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 (including last 8)..... 30  
Minimum Grade Point Average in all coursework.....2.00  
Minimum Grade Point Average in major..... 2.00

## MUSIC THERAPY - INSTRUMENTAL (CODE 147)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	2831 Class Piano III ..... 1	2841 Class Piano IV ..... 1
1013 Intro Music I ..... 3	1314 Music Theory II ..... 4	2981 Prin of Conducting ..... 1	3101 Instrum Conducting ..... 1
1113 English Comp I ..... 3	2821 Class Piano I ..... 1	3253 Music Theory III ..... 3	3303 Music Theory IV ..... 3
1172 Intro to Mus Therapy ..... 2	4900 Recital Attendance	3353 History of Music I ..... 3	3403 History of Music II ..... 3
1214 Music Theory I ..... 4	Applied Principal Instr ..... 1	4900 Recital Attendance	4900 Recital Attendance
2811 Class Piano I ..... 1	Crises from List Below ..... 4	Applied Principal Instr ..... 1	Applied Principal Instr ..... 1
4900 Recital Attendance	Gen Educ Crses ..... 2	Choral Ens ..... 1	Choral Ens ..... 1
Applied Principal Instr ..... 1	Instrumental Ens ..... 1	Crises from List Below ..... 5	Crises from List Below ..... 5
Instrumental Ens ..... 1	Secondary Applied ..... 1	Instrumental Ens ..... 1	Instrumental Ens ..... 1
Secondary Applied ..... 1	Proficiency Exam I	Secondary Applied ..... 1	Adv Elem Methods CI ..... 1
			Mus Thrpy Piano Prof Exam
			Proficiency Exam II
Total: ..... 17	Total: ..... 17	Total: ..... 17	Total: ..... 17

  

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1911 Beginning Guitar ..... 1	4232 Instrumentation ..... 2	4900 Recital Attendance	4900 Recital Attendance
2101 Voice Class ..... 1	4900 Recital Attendance	Crises from List Below ..... 7	4950 Sr Recital or Project
4900 Recital Attendance	Applied Guitar ..... 1	Gen Educ Crses ..... 8	Crises from List Below ..... 6
Applied Principal Instr ..... 1	Applied Principal Instr ..... 1	Instrumental Ens ..... 1	Gen Educ Crses ..... 9
Crises from List Below ..... 3	Applied Voice ..... 1	Vocal Elective ..... 1	Instrumental Ens ..... 1
Gen Educ Crses ..... 9	Crises from List Below ..... 5	Intro to Music Tech ..... 1	Adv Elem Methods CI ..... 1
Instrumental Ens ..... 1	Gen Educ Crses ..... 6		
Vocal Elective ..... 1	Instrumental Ens ..... 1		
	Proficiency Exam III		
Total: ..... 17	Total: ..... 17	Total: ..... 18	Total: ..... 17

All courses listed under Music Therapy and under Psychology and Biological Science may be taken at any time for a total of 35 hours.

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

## MUSIC THERAPY - VOCAL/KEYBOARD (CODE 148)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	2981 Prin of Conducting ..... 1	3151 Choral Conducting ..... 1
1013 Intro Music I ..... 3	1314 Music Theory II ..... 4	3253 Music Theory III ..... 3	3303 Music Theory IV ..... 3
1113 English Comp I ..... 3	4900 Recital Attendance	3353 History of Music I ..... 3	3403 History of Music II ..... 3
1172 Intro to Mus Therapy ..... 2	Choral Ensemble ..... 1	4900 Recital Attendance	4900 Recital Attendance
1214 Music Theory I ..... 4	Crises From List Below ..... 4	Choral Ensemble ..... 1	Choral Ensemble ..... 1
4900 Recital Attendance	Gen Educ Crses ..... 3	Crises From List Below ..... 4	Crises From List Below ..... 4
Choral Ensemble ..... 1	Principal Applied ..... 1	Gen Educ Crses ..... 2	Gen Educ Crses ..... 3
Principal Applied ..... 2	Secondary Applied ..... 1	Principal Applied ..... 1	Principal Applied ..... 1
Secondary Applied ..... 1	Proficiency Exam I	Secondary Applied ..... 1	Secondary Applied ..... 1
		Adv Elem Methods CI ..... 1	Proficiency Exam II
			Mus Thrpy Piano Prof Exam
Total: ..... 17	Total: ..... 17	Total: ..... 17	Total: ..... 17

  

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1911 Beginning Guitar ..... 1	4232 Instrumentation ..... 2	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	Choral Ensemble ..... 1	Choral Ensemble ..... 1
Choral Ensemble ..... 1	Applied Guitar ..... 1	Crises From List Below ..... 6	Crises From List Below ..... 8
Crises From List Below ..... 5	Choral Ensemble ..... 1	Gen Educ Crses ..... 8	4950 Sr Recital or Project
Gen Educ Crses ..... 6	Crises From List Below ..... 4	Principal Applied ..... 1	Gen Educ Crses ..... 5
Instrument Class ..... 1	Gen Educ Crses ..... 7	Secondary Applied ..... 1	Principal Applied ..... 1
Principal Applied ..... 1	Principal Applied ..... 1	Intro to Music Tech ..... 1	Secondary Applied ..... 1
Secondary Applied ..... 1	Secondary Applied ..... 1		Adv Elem Methods CI ..... 1
Adv Elem Methods CI ..... 1	Proficiency Exam III		
Total: ..... 17	Total: ..... 17	Total: ..... 18	Total: ..... 17

All courses listed under Music Therapy and under Psychology and Biological Science 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, 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 ADVISORS AND PROGRAMS

### Criminal Justice

P. Holley  
D. Barlow

### Political Science

K. Tillett  
D. Brown

### History

R. Bromert  
L. Endicott  
F. Gates  
J. Hayden  
D. Hertzelt

### History Education

R. Bromert  
D. Hertzelt

## MINOR PROGRAM

### Pre-Law

K. Tillett  
D. Brown

### Majors:

B.A. Criminal Justice  
B.A. History  
B.A. Political Science  
B.A.Ed. History Education

### Minors:

Criminal Justice  
History  
Political Science  
Social Science (Pre-Law)

### Master:

M.Ed. Social Sciences  
(See Graduate Catalog for more information.)

### Pre-Professional: Law

## **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, 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 certain of 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 and European Union. 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

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

<b>ENGL</b>	<b>1113</b>	<b>English Composition I</b>
<b>ENGL</b>	<b>1213</b>	<b>English Composition II</b>

**Mathematics.....3**

MATH	1143	Math Concepts
MATH	1513	College Algebra OR higher numbered math course

**Computer Applications.....2**

<b>COMSC</b>	<b>1022</b>	<b>Computer &amp; Information Access</b>
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**Natural Sciences.....8**

<b>BIOL</b>	<b>1004</b>	<b>Biological Concepts (required)</b>
SCI	1514	Concepts of Physical Science
ASTRO	1904	Astronomy
GEOL	1934	Physical Geology
CHEM	1004	General Chemistry OR higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART	1223	Art Survey
LIT	2413	Intro to Literature
MUSIC	1013	Intro to Music I
PHILO	1453	Intro to Philosophy
COMM	1313	Intro to Public Speaking

**U.S. History & Government.....6**

<b>POLSC</b>	<b>1103</b>	<b>American Government &amp; Politics</b>
<b>HIST</b>	<b>1063</b>	<b>U.S. History</b>

**Economic & International Studies.....6**

HIST	1033	World History
GEOG	1103	World Cultural Geography
ECONO	2263	Intro to Macroeconomics <b>OR</b>
ECONO	2363	Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

PSYCH	1003	General Psychology
<b>SOCIO</b>	<b>1003</b>	<b>Intro to Sociology</b>
	<b>4</b>	<b>World Languages</b>
TECH	1223	Technology and Society
HPE	1133	Wellness Concepts & Exercise Applications

## Criminal Justice Major Code No. 107

Required Courses..... 36

(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 & Criminal Behavior
CRMJS	3243	Comp Criminal Justice System
CRMJS	4103	Juvenile Justice
CRMJS	4153	U.S. Corrections

**ELECTIVES: ..... 15**

Select 6 hours from:

CRMJS	2503	Criminal Justice Administration
POLSC	2623	Criminal Law & Procedure
POLSC	2803	Judicial Process
CRMJS	4143	Critical Issues in Criminal Justice
CRMJS	4413	Law Enforcement Policy

Select 6 hours from:

SOCIO	3043	Racial & Cultural Minorities
CRMJS	4013	Seminar: Criminal Mind
CRMJS	4333	Victimology
SOCIO	4033	Advanced Analysis of Social Problems

Select 3 hours from:

CRMJS	3803	Privatization of Criminal Justice
CRMJS	4013	Seminar: Prevention/Control Crime
CRMJS	4033	Sociology of Law
CRMJS.....4913		Internship in Criminal Justice (For juniors or seniors with prior approval)

Electives (including minor) to bring total to ..... 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 (including last 8) ..... 30

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

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

# BACHELOR OF ARTS HISTORY

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS ..... 43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences..... 8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government..... 6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies..... 6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies..... 6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

## History Major Code No. 120

Required Courses..... 39

**HIST 4093 Historical Research & Writing**

Upper Level in History:

American (15 hours)

European and/or World (12 hours)

Additional upper-level history (9 hours)

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

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

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation .....120

Minimum credit hours in the liberal arts & sciences..... 80

Minimum credit hours in upper-division

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

Minimum credit hours (3000/4000 courses)

in major completed at SWOSU..... 8

Minimum credit hours at SWOSU (including last 8)..... 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		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	Gen Educ Crses..... 10	Gen Educ Crses..... 7
1113 English Comp I..... 3	1003 Intro to Sociology..... 3	1113 Intro to Crim Justice..... 3	Criminal Justice ..... 3
Gen Educ Crses ..... 10	Gen Educ Crses..... 9	Minor ..... 3	Minor ..... 3
Total: ..... 14	Total: ..... 15	Total: ..... 16	Total: ..... 13

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Criminal Justice..... 6	Criminal Justice ..... 9	Criminal Justice ..... 9	Criminal Justice ..... 6
Minor..... 3	Minor ..... 3	Elective ..... 6	Minor ..... 6
Elective..... 6	Elective ..... 5		Elective ..... 3
Total: ..... 15	Total: ..... 17	Total: ..... 15	Total: ..... 15

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

**HISTORY (CODE 120)**  
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient* ..... 1	1213 English Comp II ..... 3	Gen Educ Crses..... 13	Elective ..... 3
1113 English Comp I..... 3	Gen Educ Crses ..... 13	Am/Wld Hist..... 3	Minor ..... 3
Gen Educ Crses ..... 11			Am/Wld Hist..... 9
Total: ..... 15	Total: ..... 16	Total: ..... 16	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Am/Wld Hist ..... 9	Am/Wld Hist..... 6	4093 Historical Res/Writ..... 3	Electives ..... 4
Electives ..... 3	Minor ..... 3	Am/Wld Hist..... 6	Minor ..... 6
Minor..... 3	Electives..... 6	Minor ..... 3	Am/Wld Hist..... 3
		Electives..... 3	
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 13

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

# BACHELOR OF ARTS POLITICAL SCIENCE

## GENERAL EDUCATION

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

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications**..... **2**

**COMSC I1022 Computer & Information Access**

**Natural Sciences** ..... **8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts**..... **6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** ..... **6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**..... **6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies** ..... **6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

## Political Science Major Code No. 156

Required Courses ..... 36

**POLSC 2303 Comparative Politics**  
**POLSC 2803 The Judicial Process**  
**POLSC 3003 Federal Constitution**  
**POLSC 3033 Political Parties**  
**POLSC 3113 Political Theory**  
**POLSC 3323 Legislative-Executive Relations**  
**SOCSC 3853 Statistics for Social Sciences**  
**SOCSC 3863 Fundamentals of Research**

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

Public Law Concentration:

**POLSC 2623 Criminal Law & Procedures**  
**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 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

**POLITICAL SCIENCE (CODE 156)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient* .....1	1213 English Comp II.....3	Political Sci.....6	2803 Judicial Process.....3
1113 English Comp I.....3	2303 Comp Politics.....3	Gen Educ Crses.....6	Political Sci.....6
Gen Educ Crses .....10	Gen Educ Crses.....9	Elective .....4	Minor .....3
			Elective .....3
Total: .....14	Total:.....15	Total:.....16	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3003 Federal Constitution .....3	3323 Legis/Exec Relation .....3	3113 Political Theory.....3	3033 Political Parties .....3
3853 Stats Social Sciences .....3	3863 Fund of Research .....3	Electives.....6	Electives .....9
Minor.....3	Gen Educ Crses.....6	Minor .....6	Minor .....3
Gen Educ Crses .....6	Minor .....3		
		6	
Total: .....15	Total:.....15	Total:.....15	Total: .....15

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

# **COLLEGE OF PHARMACY**

**Dr. H. David Bergman, Dean**

**Degree Offered:**

Doctor of Pharmacy (Pharm.D.)



# COLLEGE OF PHARMACY

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R. Sharp .....	Oklahoma City.....	<a href="mailto:randall.sharp@swosu.edu">randall.sharp@swosu.edu</a> .....	(405) 272-6080
D. Thompson .....	Oklahoma City.....	<a href="mailto:dennis.thompson@swosu.edu">dennis.thompson@swosu.edu</a> .....	(405) 272-6080
E. Welch .....	Oklahoma City.....	<a href="mailto:ben.welch@swosu.edu">ben.welch@swosu.edu</a> .....	(405) 272-6920

## 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.

## MISSION, GOALS AND OBJECTIVES

The mission of the SWOSU College of Pharmacy is to educate and graduate highly competent practitioners of pharmaceutical care. The College of Pharmacy achieves its mission through excellence in teaching, scholarly activity, and service to the state and society.

- The College of Pharmacy fulfills its mission by providing an education, which instills in students the knowledge, skills, attitudes, and behaviors needed to practice pharmaceutical care.
- The goals of these educational experiences are to provide a basic foundation of information and professional skills, an appreciation for the continuous refinement and renewal of biomedical concepts, an understanding of humanistic and ethical values, and a beginning commitment to the life-long scholarship required to advance the practice of Pharmacy.
- Considering the demands and expectations of pharmacists by society, the college strives to select students having high intellectual ability, dedication of purpose, and the capacity to withstand the rigors of education and practice.

The objective of the College of is to admit, educate, and train students who have the desirable personal and intellectual qualities that predict a successful career in Pharmacy, recognizing the importance of social and cultural diversity. The education and training of the students will ensure the graduates have the ability to:

- Acquire knowledge of the basic and clinical pharmaceutical sciences necessary for success in the practice of Pharmacy and advanced training.
- Acquire the skills necessary to elicit relevant clinical information, including history taking and objective assessment.
- Develop skills that foster effective communication between pharmacists, patients, or other health care providers.
- Perform basic pharmaceutical skills, as necessary, for the practice of Pharmacy.
- Perform critical analysis of professional literature, including using the latest information retrieval technology.
- Provide appropriate pharmaceutical therapy and disease state management to obtain positive outcomes to improve the patient's quality of life.
- Develop the professional attributes of integrity, ethical values, compassion, responsibility, and commitment to community health and wellness.
- Develop the skills of critical thinking, problem solving, and independent learning.

## 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 that 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 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.

Eight semesters of study in residence at the College of Pharmacy are required to complete the professional course work for the Pharm.D. degree. Students may elect an accelerated program to complete the work in less than four years. Since the College of Pharmacy maintains a summer program of instruction, and since each full summer term is equal to one-half semester, the student may, by careful planning to attend summer terms, complete the curriculum requirements in less than the normally prescribed time. Students interested in such an accelerated program must seek the counsel of assigned faculty advisors to develop and file the required degree plan early in their academic careers.

#### **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 requirements of the 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.

#### **ADMISSION TO THE PROFESSIONAL DOCTOR OF PHARMACY PROGRAM**

Students may apply for admission into the professional program for the fall, spring or summer semesters. Applications for admission into the professional Doctor of Pharmacy program for summer or fall semesters must be submitted by the previous February 1<sup>st</sup>. Applications for admission into the Doctor of Pharmacy professional program for the spring semester must be submitted by the previous October 1<sup>st</sup>. Selection for admission into the Doctor of Pharmacy professional program is competitive. The minimum standards to be considered for admission are as follows:

1. Satisfactory completion of at least 58 semester hours of the Pre-Pharmacy curriculum;
2. Completion of all Pre-Pharmacy biology, chemistry, mathematics, and physics courses;
3. A minimum cumulative grade point average of 2.00;
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 College of Pharmacy. Forms, application deadlines, and further information may be obtained from the

Pharmacy Admissions Counselor. 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.

#### **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, American College Test (ACT) or Scholastic Aptitude Test (SAT), and PCAT 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 such concerns as motivation, character, personal objectives, and communication skills. An appraisal from the interview is included in the applicant's file and is weighed, along with other factors, such as consistency of academic performance, by the Admissions Committee in making its final recommendation regarding admission to the Dean of the College of Pharmacy.

Preference is given in the selection process to Oklahoma residents who have completed their Pre-Pharmacy course requirements at SWOSU; Oklahoma residents completing their Pre-Pharmacy course requirements at other universities and colleges; and other citizens and permanent residents of the United States who have completed their Pre-Pharmacy course requirements at SWOSU.

#### **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 one letter grade higher than the lowest passing grade. The completed work must be equivalent to that offered at SWOSU. In addition to official transcripts, applicants must furnish three references, one of whom must be 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 and changing 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 and are suspended or take a leave of absence, may encounter program delays or additional semester credits due to curricular changes.

### PRE-PROFESSIONAL CURRICULUM

The Pre-Pharmacy curriculum consists of 64 hours of prescribed course work. A minimum of 58 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. 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.

### COLLEGE OF PHARMACY REGULATIONS

#### PHARMACY SCHOLARSHIP REQUIREMENT:

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 or residency credits 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.

#### PHARMACY RESIDENCY REQUIREMENTS:

5. Pharmacy degree candidates must satisfy a minimum residency requirement of eight semesters, or its equivalent, while enrolled full-time in the Professional program. A student must complete a minimum of 12 semester hours in the spring or fall semester to receive

one (1) residency credit or a minimum of 6 semester hours in the summer term to receive one-half (1/2) residency credit. Failure to complete 12 semester hours in the fall or spring semester, or 6 semester hours in the summer term, will result in loss of residency credit for that term.

#### PHARMACY PROBATION:

6. Any student whose grade point average for any semester drops below 2.00 will be placed on Pharmacy probation.
7. Any student who fails to complete 12 semester hours in the fall or spring semester will be placed on Pharmacy probation.
8. Any student whose cumulative Pharmacy grade point average is less than 2.00 will be placed on Pharmacy probation.
9. Students on Pharmacy probation may not enroll in more than 15 semester hours without written approval of the Dean.
10. 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 or 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:

11. 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:

12. 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:

13. *PHARMACY SUSPENSION IS AN ACTION TAKEN IN THE INTEREST OF THE STUDENT, WHOSE 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.
14. A student will be suspended if the student has two consecutive fall and spring semesters of the following:
  - a. less than a 2.00 semester grade point average;
  - b. completion of less than 12 semester hours; or
  - c. any combination of a and b.
15. Any student subject to Pharmacy probation a second time, whose cumulative Pharmacy grade point is less than 2.00, will be suspended.
16. 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.
17. A student may enroll in the same course twice.

- a. For the purpose of this regulation, any enrollment past the class change period (drop/add period) is considered an "official" enrollment.
- b. The student who fails to complete a course satisfactorily within two "official" enrollments will be suspended or may enroll in the course for a third opportunity under the following requirements:
  - (1) The enrollment will be in the next semester/term in which the course is available; and,
  - (2) The student may not enroll in any other required or elective course in the Professional program prior to or concurrent with the third opportunity.
  - (3) Any other conditions specified by the faculty.
- c. If the student fails to complete the course satisfactorily on the third opportunity, the student will be suspended.
- d. The third opportunity semester cannot serve as a Pharmacy probation or continued Pharmacy probation semester. Pharmacy probation or continued Pharmacy probation status, assessed prior to the third opportunity semester, will be served in the semester following successful completion of the third opportunity.
- e. Suspension as a result of any other regulations supercedes the opportunity for a third "official" enrollment.

#### READMISSION AFTER PHARMACY SUSPENSION:

18. 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:

19. 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.
20. 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.
21. Pharmacy admission is restricted to those persons who meet high standards of character, morality and conduct. The faculty of the College of Pharmacy reserve the right to suspend from the College of Pharmacy any student whose attitude, actions or

conduct, on or off campus, could discredit himself, the College of Pharmacy, SWOSU, or the profession of Pharmacy. Students should make special note of the SWOSU Student Handbook, particularly the following items in the **Prohibited Activities Defined** section:

- Unlawful use, sale, possession, distribution, or being under the influence of or association with narcotics, drugs, marijuana, hallucinogens, or other dangerous drugs while on or off campus.
  - Drinking, being in possession of, or under the influence of alcoholic beverages on the campus or at University sponsored events off the campus.
  - Possession of any form of illegal contraband or paraphernalia which is usually associated with the use of narcotics and/or dangerous drugs.
22. 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.
  23. The College of Pharmacy does not recognize any academic reprieve granted by SWOSU in the computation of Pre-Pharmacy or Pharmacy grade point averages.

#### **SPECIAL NOTES ON THE PROFESSIONAL PROGRAM**

1. The successful completion of the Professional program curriculum in the College of Pharmacy, as well as the practice of Pharmacy, require 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 those specific classes in the College of Pharmacy without permission from the Dean of the College of Pharmacy.
3. The Pharmacy Practice courses (Medicine, Community, Institutional, and Selective) comprise a 32-semester-hour block 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. Professional Pharm.D. program students who have complaints regarding the standards or policies and procedures of the Accreditation Council for Pharmacy Education 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.

5. Professional electives are to be selected through consultation with the advisor and must be taken as part of the Professional Pharm.D. program.
6. All students in the Professional program must be certified as Pharmacy interns by the Oklahoma State Board of Pharmacy.
7. All students in the Professional program must complete the Hepatitis B and Varicella Vaccine series as well as all components of the SWOSU Health Record in the prescribed time periods.
8. The cost of attendance for the professional Doctor of Pharmacy program includes the specific tuition for the professional Doctor of Pharmacy 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. Some of the programs available are:

**BECKY FERGERSON MEMORIAL LOAN FUND:** Loans from this fund are designated for senior Pharmacy students during the Pharmacy Practice rotations.

**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.

**NCPA FOUNDATION STUDENT LOAN PROGRAM:** Loans are available to Pharmacy students in their last two and one-half years of the Professional program.

#### **PHARMACY PUBLICATIONS**

The College of Pharmacy sponsors these publications: Apothecary, the Pharmacy yearbook published annually, The Sig, a periodic newsletter to Pharmacy practitioners, and The Bulletin.

# Doctor of Pharmacy (Pharm.D.) College of Pharmacy

## PRE-PROFESSIONAL (CODE 300) Suggested Course Sequence

First Year		Second Year	
1001 Orientation.....	1	3013 Organic Chemistry I.....	3
1113 English Composition I.....	3	3111 Organic Chemistry I Lab.....	1
1213 English Composition II .....	3	4113 Organic Chemistry II .....	3
1203 General Chemistry I .....	3	4021 Organic Chemistry II Lab .....	1
1252 General Chemistry I Lab .....	2	1064 General Physics.....	4
1303 General Chemistry II.....	3	4355 Microbiology .....	5
1352 General Chemistry II Lab.....	2	1003 General Psychology .....	3
2823 Applied Calculus.....	3	1033 World History	
1004 Biological Concepts .....	4	or 1103 World Cultural Geog.....	3
1103 American Government and Politics.....	3	2263 Introduction to Macroeconomics .....	3
1063 U.S. History.....	3	*Humanities and Fine Arts .....	6
1022 Computers and Information Access .....	2		
Total .....	32	Total.....	32

\* Must be selected from Art Survey, Intro to Literature, Intro to Music I, Intro to Philosophy, or Intro to Public Speaking or approved by the Dean of the College of Pharmacy (General Education Program).

## PROFESSIONAL (CODE 450) Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4124 Biochemistry .....	3123 Pharmaceutics II.....	4032 Pharmaceutics III.....	4515 Medicinal Chem. II.....
4213 Immunology .....	3724 Pathophysiology II.....	4655 Pharmacology I.....	4745 Pharmacology II .....
3023 Pharmaceutics I .....	3403 Biomedical Chem.....	4413 Medicinal Chem. I .....	4323 Found. In Pharm. Prac.....
3613 Pathophysiology I.....	3803 Pharmacy Mngmt.....	4302 Drug Information.....	4633 Pharmacokinetics.....
3812 Pharmacy Comm. ....	3702 Principles of Disease.....	4041 Pharm. Care Lab II .....	4331 Pharm. Care Lab III.....
3001 Intro. to Pharmacy .....	3311 Pharm. Care Lab I.....	4012 Prescription Products .....	
Total .....	Total.....	Total .....	Total.....

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
5204 Concepts of Phrmcothry ...	5234 Prin. of Pharmacothrpy .....	5914 Pharm. Prac.-Comm. A.....	5924 Pharm. Prac.-Comm. B.....
5823 Pharm. Administration.....	5833 Pharmaceutical Mrktng .....	5944 Pharm. Prac.-Select. A.....	5934 Pharm. Prac.-Institution.....
Professional Elective .....	5843 Jurisprudence .....	5954 Pharm. Prac.-Medi. A.....	5974 Pharm. Prac.-Medi. C .....
5142 Pharmaceutics IV.....	Professional Elective.....	5964 Pharm. Prac.-Medi. B .....	5984 Pharm. Prac.-Select. B.....
5054 Nonpres. Prod. Therap.....	5322 Pharm. Care Lab V.....		
5151 Pharm. Care Lab IV.....	5752 Toxicology .....		
5010 Pharm. Seminar .....			
Total .....	Total.....	Total .....	Total.....

### 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..... 192  
Minimum hours in liberal arts & sciences .....

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

Minimum Grade Point Average to enter the professional program .....

..... 2.00

Minimum Grade Point Average in major .....

..... 2.00





# **COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES**

**Dr. Ken Rose, Dean**

**SCHOOL OF ALLIED HEALTH SCIENCES ..... Dr. Gary Wolgamott, Associate Dean**

**Athletic Training Education Program  
Health Care Administration Program  
Health Information Management Program  
Medical Technology Program  
Health Sciences Program**

**SCHOOL OF BEHAVIORAL SCIENCES**

**AND EDUCATION ..... Dr. Gary Gilliland, Associate Dean**

**Education  
Health and Physical Education  
Parks and Recreation Management  
Psychology  
Social Work**

**SCHOOL OF BUSINESS..... Dr. Larry McKee, Associate Dean**

**SCHOOL OF COMPUTER SCIENCE**

**AND TECHNOLOGY ..... Dr. Harpal Dhillon, Associate Dean**

**Computer Science  
Technology**

**SCHOOL OF NURSING ..... Dr. Pat Meyer, Associate Dean**

**Degrees Offered in the  
COLLEGE OF PROFESSIONAL AND  
GRADUATE STUDIES**

**SCHOOL OF ALLIED HEALTH SCIENCES**

**Dr. Ken Rose, Dean**  
**Dr. Gary Wolgamott, Associate Dean**

**ALLIED HEALTH SCIENCES**

**ATHLETIC TRAINING EDUCATION PROGRAM**

Athletic Training - B.S.

**HEALTH CARE ADMINISTRATION PROGRAM**

Health Care Administration Services - B.S.

Health Care Administration Minor

Health Care Administration Minor for HIM

Health Care Administration Minor for Athletic Trainers

**HEALTH INFORMATION MANAGEMENT PROGRAM**

Health Information Management - B.S.

**MEDICAL TECHNOLOGY PROGRAM**

Medical Technology - B.S. (3+1 and 4+1 options)

**HEALTH SCIENCES PROGRAM**

Health Sciences - B.S.

# SCHOOL OF ALLIED HEALTH SCIENCES

## FACULTY

Gary Wolgamott, Associate Dean

Science Building Room 206

Phone: (580) 774-3079

E-mail: [gary.wolgamott@swosu.edu](mailto:gary.wolgamott@swosu.edu)

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L. Appeddu .....	SCI 202A .....	<a href="mailto:lisa.appeddu@swosu.edu">lisa.appeddu@swosu.edu</a> .....	(580) 774-3148
A. Aspedon .....	SCI 325 .....	<a href="mailto:arden.aspedon@swosu.edu">arden.aspedon@swosu.edu</a> .....	(580) 774-3046
M. Catterson .....	HPE 107 .....	<a href="mailto:michael.catterson@swosu.edu">michael.catterson@swosu.edu</a> .....	(580) 774-3073
H. Cole .....	SCI 110E .....	<a href="mailto:harold.cole@swosu.edu">harold.cole@swosu.edu</a> .....	(580) 774-3099
G. Holm .....	HPE 41A .....	<a href="mailto:greg.holm@swosu.edu">greg.holm@swosu.edu</a> .....	(580) 774-3072
M. Prichard .....	SCI 202B .....	<a href="mailto:marion.prichard@swosu.edu">marion.prichard@swosu.edu</a> .....	(580) 774-3287
T. Stubbs .....	SCI 202C .....	<a href="mailto:teri.stubbs@swosu.edu">teri.stubbs@swosu.edu</a> .....	(580) 774-3067
R. Walker .....	HPE 30 .....	<a href="mailto:ron.walker@swosu.edu">ron.walker@swosu.edu</a> .....	(580) 774-3186

## DIVISION GOALS

The primary goals of the School of 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 health care service.
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

### 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 program involves a combination of basic life sciences, medical sciences, 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.

### Athletic Training Education Program

The Bachelor of Science in Athletic Training, fully accredited by CAAHEP, provides the knowledge and skills necessary to succeed in any professional environment. The Certified Athletic Trainer (ATC) is a highly educated allied health professional and is an on-the-scene member of the sports medicine team. ATC's work with other medical professionals on and off the athletic field. As a sports medicine expert, the ATC works diligently to prevent injury by educating coaches, parents, and athletes. When injuries occur, the ATC is skilled in the implementation of the appropriate rehabilitation techniques and tools to restore function swiftly and safely. In this exciting and challenging field, ATC's are responsible for the health and safety of athletes in various settings: high schools, colleges, professional, Olympic Sports, hospitals, clinics, and corporate and industrial facilities.

### Health Information Management

The Health Information Management program is an integrated 2 + 2 program involving two years of pre-professional curriculum and two years of professional courses. Students are trained to design, develop, and manage health record systems in health care facilities. They must be knowledgeable about health records, their management and all regulatory components involving patient information. Students are trained in health, information science, management, medical science, computerization applications and systems design, and specific procedures such as coding. The program is accredited by CAAHEP in cooperation with the American Health Information Management Association.

### **Medical Technology/Clinical Laboratory Scientist**

Medical Technology/Clinical Laboratory Scientists are trained extensively in microbiology, biology, chemistry and clinical sciences. They play a vital role in performing the clinical tests used to diagnose and treat diseases. They must take three to four years of college courses followed by a one-year clinical practicum at an accredited hospital. The program is accredited by CAAHEP in cooperation with the National Accrediting Agency of Clinical Laboratory Sciences.

### **Health Sciences Major**

The Health Sciences major is a bachelor's degree program designed to provide students interested in health professions the opportunity to fulfill prerequisites and develop a knowledge base in the health sciences. The courses and experience available will prepare students for professional training programs and graduate level programs.

As Health Science Majors, students may prepare to enter the following professional schools or programs

Medical School	Communication Sci. & Disorders
Physician Associate	College of Dentistry
Physical Therapy	Dental Hygiene
Radiologic Technology	Occupational Therapy
Optometry	Nutritional Sciences
Medical Technology	Health Info. Management

### **ASSOCIATE DEGREES IN APPLIED SCIENCE**

Southwestern Oklahoma State University-Sayre offers Associate Degrees in Applied Science in the following Allied Health Sciences programs. All technical level training for these programs requires admission based on the student's application and performance evaluation.

**Medical Laboratory Technician (MLT)**, is a clinical laboratory science training program accredited by the Accrediting Bureau of Health Education Schools.

**Radiological Technology (X-ray)** is a radiology training program accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

**Physical Therapist Assistant (PTA)** is a cooperative program with SWOSU and Caddo-Kiowa Technology Center, Ft. Cobb. The prerequisite courses are taken at SWOSU Weatherford and/or Sayre and the specialty courses are taken at the technology center. The program is accredited by the Commission on Accreditation in Physical Therapy Education.

**Occupational Therapy Assistant (OTA)** is a cooperative program with SWOSU and Caddo-Kiowa Technology Center, Ft. Cobb. The prerequisite courses are taken at SWOSU Weatherford and/or Sayre and the specialty courses are taken at the technology center. The program is accredited by the American Occupational Therapy Association, Inc.

# SCHOOL OF ALLIED HEALTH SCIENCES ATHLETIC TRAINING EDUCATION PROGRAM

## FACULTY

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### PROGRAM MISSION

It is the mission of the Athletic Training Education Program at Southwestern Oklahoma State University to impart a foundational didactic and structured clinical education that will foster personal and professional excellence. The program will direct the student in the grasp of athletic training theory while encouraging competent and proficient practical skills development.

### THE PROFESSION

Recognized by the American Medical Association as an Allied Health Profession, the Certified Athletic Trainer (ATC) is highly educated and skilled in prevention, recognition, management, and rehabilitation of injuries resulting from physical activity. As a sports medicine expert and member of the complete health care team, the ATC works under the direction of a licensed physician and in cooperation with other health care professionals and sports medicine team members. Students pursuing athletic training as a career must graduate from a CAAHEP-accredited degree program, pass the National Athletic Trainers' Association Board of Certification Exam, and obtain the correct credentials from the state in which they hope to practice. The ATEP at SWOSU is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

### ADMISSION REQUIREMENTS

Students interested in Athletic Training as a career should seek advisement from ATEP faculty. The Athletic Training pre-professional curriculum is open to any high school graduate or transfer student who obtains formal university admission. The pre-professional curriculum consists of a minimum of 57 hours including courses that meet general education requirements of SWOSU. Students may make application with the program director for formal program admittance prior to December 1<sup>st</sup>\* and/or April 1<sup>st</sup>. Enrollment to the professional phase of the ATEP is limited. Admission to SWOSU and meeting minimum requirements does not guarantee admission to the professional phase of the Athletic Training Program. To be considered for professional program admittance, the applicant must:

#### ***1. Maintain a minimum overall GPA of 2.5***

#### ***2. Have completed a minimum of 45 hours coursework including a C or better in the following courses\*\*:***

ATEP	1922	Introduction to Athletic Training
ATEP	2433	Athletic Training Care and Prevention
HPE	2212	First Aid
HPE	1133	Wellness Concepts
HPE	1153	Nutrition
BIOL	1004	Biological Concepts/Lab
HPE	3443	Kinesiology and Anatomy
ALHLT	2442	Medical Terminology
ALHLT	1401	Allied Health Careers
PSYCH	1003	General Psychology

#### ***3. Completed or have current enrollment and satisfactory progress (C) in the following courses\*\*\*:***

ATEP	3723	Advanced Athletic Training
BIOL	3104	Human Anatomy/Lab

#### ***4. Have documented a minimum of 100 hours of observation of SWOSU clinical instructors***

#### ***5. Submit to Student Health Center:*** medical history, MMR vaccination records, TB testing records (within 1 year), and HBV vaccination records (or declination statement).

#### ***6. Submit to ATEP Director:*** All application materials, including technical standards signed by applicant and designated physician, proof of current CPR and First Aid Certification, and current official transcripts.

All application materials, including the technical standards for admission are published on the ATEP Web site, <http://www.swosu.edu/atep/> and are available from ATEP faculty.

\* Students gaining spring admittance must enroll in ATEP 4593 Internship in Athletic Training for the spring term.

\*\* Transfer students must have completed 15 hours at SWOSU or recognized articulating institution.

For spring admittance, required coursework must be completed at the conclusion of the fall term.

\*\*\* Courses must be complete prior to August 1<sup>st</sup> following application.

The ATEP admissions committee, consisting of the ATEP director, clinical education coordinator, clinical instructors, and Allied Health Sciences faculty, review all submitted materials. This information, in conjunction with clinical observation evaluations and faculty recommendations, provides the objective information necessary to identify qualified applicants. Qualified applicants are subject to interview by committee. Selection criteria are as follows:

Submission of all required documentation

1. Overall GPA	15 points
2. Pre-requisite GPA	25 points
3. Observation Evaluations	35 points
4. Faculty Recommendations/Interview	<u>25 points</u>
	100 total

The number of applicants accepted will reflect an appropriate student-faculty ratio and the availability of appropriate clinical resources. The required clinical education component will begin in the fall of the junior year following formal program admittance.

#### **CLINICAL AND FIELD EXPERIENCE**

During the strong practical component of the Athletic Training Education Program, clinical supervision by approved clinical instructors provides for unique educational experiences. In accordance with the CAAHEP Standards and Guidelines, a minimum of two academic years of clinical experience associated with course credit is obtained.

Following program admittance, enrollment in ATEP 3733 Practicum in Assessment (co-requisite enrollment in ATEP 4344 Athletic Training Evaluation of Orthopedic Injury) during the fall semester and ATEP 3753 Practicum in Therapeutic Intervention (concurrent enrollment in ATEP 3743 Athletic Training Rehabilitation) during the spring semester allows the student to physically apply knowledge in the athletic training facility. Senior enrollment in ATEP 4813 Application of Athletic Training I during the fall and ATEP 4823 Application of Athletic Training II during the spring encourages continual athletic training proficiency and competency development. Student exposure occurs in

the traditional collegiate athletic training setting as well as non-traditional environments. Off-campus clinical affiliations provide outstanding opportunities for athletic training experience at the hospital, clinic, high school, and outreach levels.

#### **FINANCIAL INFORMATION**

Financing the Bachelor of Science in Athletic Training is the responsibility of the student. Application for financial aid is available through the Office of Student Financial Services. In addition to tuition and fees of the university, additional fees are the responsibility of the student. These include: annual liability insurance premiums, uniforms and other equipment necessary for clinical experience, immunizations and screenings, transportation and meal costs associated with off-campus clinical experience, and professional memberships.

#### **GRADUATION**

Students must meet university and program requirements to complete the Bachelor of Science in Athletic Training. The associated minor, Health Care Administration, is required. This course of study requires the student to complete 120 credit hours. Students may pursue additional major or minor areas of study to compliment the program, realizing that additional coursework and time will be necessary.

Students must achieve minimum academic and clinical standards to satisfy retention guidelines. Students failing to maintain a 2.5 GPA or meet clinical expectations may be placed on probation, suspended, or removed from the professional program.

#### **CAREERS IN ATHLETIC TRAINING**

Following graduation and attainment of NATABOC certification and licensure/registration, the athletic trainer may practice in a variety of settings. These include but are not limited to secondary schools, colleges and universities, professional sports, sports medicine clinics, fitness/wellness centers, or corporate and industrial facilities.

# BACHELOR OF SCIENCE IN ATHLETIC TRAINING

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
**HPE 1133 Wellness Concepts & Exercise Applications**

## Athletic Training Major

**Code No. 167**

**Required courses.....46**

HPE 1153 Nutrition  
ATEP 1922 Introduction to Athletic Training  
HPE 2212 First Aid  
ATEP 2433 Athletic Training Care and Prevention  
HPE 3443 Kinesiology and Anatomy  
ATEP 3723 Advanced Athletic Training  
ATEP 4344 A T Eval of Ortho Inj  
ATEP 3733 Practicum in Assessment of Injury  
ATEP 3743 AT Rehabilitation and Reconditioning  
ATEP 3753 Practicum in Therapeutic Intervention  
ATEP 4323 Athletic Training Pharmacology  
ATEP 4722 Administrative Issues in AT  
ATEP 4813 Application of Athletic Training I  
ATEP 4823 Application of Athletic Training II  
HPE 4233 Exercise Physiology  
ATEP 4433 Athletic Training Modalities

**Required Allied Health Minor Courses.....20**

ALHLT 1401 Allied Health Careers  
BIOL 3704 Human Anatomy with Lab  
BIOL 3904 Human Physiology with Lab  
**OR BIOL 2714 Human Anatomy / Human Phys w/lab**  
ALHLT 2442 Medical Terminology  
ALHLT 3193 Health Care Delivery  
ALHLT 3933 Management of Health Institutions  
ALHLT 3963 Health Care Administration  
**OR ALHLT 4043 Medicolegal Concepts**

**FREE ELECTIVES.....10-11**

**ELECTIVES BRING THE 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).....40  
Minimum credit hours (3000/4000 courses)  
in major completed at SWOSU.....8  
Minimum credit hours at SWOSU.....30  
Minimum Grade Point Average in all coursework.....2.0  
Minimum Grade Point Average in major.....2.5

## ATHLETIC TRAINING (CODE 167)

### Suggested Course Sequence\*

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient** ..... 1	1003 Gen. Psychology ..... 3	2433 AT Care & Prev/lab ..... 3	3704 Human Anat w/lab ..... 4
1004 Biological Concepts ..... 4	1153 Nutrition ..... 3	2442 Med Terminology ..... 2	3723 Advanced Ath Train ..... 3
1133 Wellness Concepts ..... 3	1401 Allied Health Careers ..... 1	3443 Kinesio & Anatomy ..... 3	Gen Educ Crses ..... 9
1922 Intro to Athl Train ..... 2	2212 First Aid (Cert) ..... 2	Gen Educ Crses ..... 6	
Gen Educ Crses ..... 6	Gen Educ Crses ..... 7	English Proficiency Exam***	
Total ..... 16	Total ..... 16	Total ..... 14	Total ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4344 AT Eval of Ortho Inj ..... 4	3743 Ath Train Rehab ..... 3	3933 Mgmt of Health Instit ..... 3	4823 App of Ath Train II ..... 3
3733 Practicum in Assess ..... 3	3753 Practicum Ther Interv ..... 3	4323 Ath Train Pharm ..... 3	Free Electives ..... 10
4233 Exercise Physiology ..... 3	3963 Healthcare Adm	4722 Adm Iss in Ath Train ..... 2	Gen Educ Crses ..... 4
3193 Health Care Delivery ..... 3	or 4043 Medicolegal Conc ..... 3	4813 App of Ath Train I ..... 3	
4433 Ath Train Modal/lab ..... 3	3904 Human Phys w/ lab	Gen Educ Crses ..... 4	
	or 2714 Human A&P/lab ..... 4		
	Gen Educ Crses ..... 2		
Total ..... 16	Total ..... 15	Total ..... 15	Total ..... 17

\* This is the suggested course sequence for entering freshman. Other students (transfers, etc.) must complete the appropriate sequence of course work. Athletic Training Courses must be taken in sequence to insure appropriate grasp of material presented. This includes concurrent enrollment in Practicum courses when indicated.

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

\*\*\* If applicable. See English Proficiency Program under the General Academic Information Section.



# SCHOOL OF ALLIED HEALTH SCIENCES

## HEALTH CARE ADMINISTRATION

### FACULTY

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### 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. Students who complete the major will be professionally prepared for an entry level position in administrative services in hospitals, nursing homes, mental health institutions, home health care, and governmental health agencies.
2. Students who complete the major will be eligible to take the licensure test to be a certified nursing home administrator in Oklahoma after completing a 14 week "administrator in training" (AIT) requirement.
3. Students who complete the minor will be introduced to the services and general functioning of health care institutions.

### PROGRAMS OF STUDY

**Major:** Health Care Administration

**Minor:** Suggested choices are: Business (5 options), Psychology, Biology, Gerontology or Computer Science.

### GENERAL INFORMATION

#### THE PROFESSION

The Health Care Administration Program 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 to 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 120 semester hours of college credit with an overall grade point of at least 2.25 and a minimum grade point average of 2.50 in the major courses.

In addition to the regular coursework, Health Care Administration majors complete an eight week internship in approved health care facilities. Health Care Administration minors complete a 2-week internship. 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 or minor. The internship is coordinated by the program faculty. To plan the internship, an appointment should be made with the internship coordinator six months prior to the anticipated start of the internship.

The year in which the internship is scheduled, students are required to enroll in a Malpractice Liability Insurance Policy at a group rate offered to SWOSU students. The policy is in effect for the academic year (August-July). Premiums are due September 1 of each year. Students should also be able to show evidence of current health insurance coverage, as well as a current physical examination and immunizations prior to the internship.

The Health Care Administration Services program will be offering certain major courses interactively through the SWOSU Distance Learning Center.

# BACHELOR OF SCIENCE HEALTH CARE ADMINISTRATION

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS ..... 43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications..... 2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences..... 8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government ..... 6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies..... 6**

HIST 1033 **World History**  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Health Care Administration Services Major Code No. 550

Required Courses ..... 48

### Major Courses

ALHLT 1401 Allied Health Careers  
BIOL 2714 Human Anatomy & Physiology  
PSYCH 2423 Social Psychology  
**OR PSYCH 3323 Abnormal Psychology**  
ACCTG 2313 Principles of Accounting II  
MEDRC 4112 Quality Improvement  
GEBUS 3123 Legal Environment of Business  
MNGMT 3233 Management  
MNGMT 3333 Human Resource Management  
ECONO 2463 Business Statistics  
**OR ALHLT 3043 Health Statistics**  
ALHLT 3193 Health Care Delivery  
ALHLT 3933 Mngmnt of Health Care Institutions  
ALHLT 3963 Health Care Administration  
ALHLT 4043 Medicolegal Concepts  
FINAN 3343 Business Finance  
ALHLT 3978 Health Care Internship

The Health Care Internship included in the major consists of eight (8) weeks of scheduled training time arranged at various health care facilities.

### Minor Courses

Suggested areas to consider for the minor are: Business (5 options) (18 hrs.); Psychology (20-23 hrs.); Biological Sciences (20 hrs.); or Computer Science (18 hrs)..... 18-23

### Ancillary Courses

ALHLT 2442 Medical Terminology ..... 2  
COMSC 1433 Visual Basic **OR** COMSC 1033 Comp Science I  
**OR COMSC 2353 COBOL I Programming..... 3**  
ACCTG 2213 Principles of Accounting I..... 3

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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework ..... 2.25  
Minimum Grade Point Average in major ..... 2.50

# SCHOOL OF ALLIED HEALTH SCIENCES HEALTH INFORMATION MANAGEMENT

## FACULTY

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## PROGRAM GOALS

The Health Information Management Program at Southwestern Oklahoma State University has established goals toward which all curriculum and program activities are directed. Program goals are:

1. To provide a quality program in HIM, which fulfills the portion of the mission of SWOSU as relevant to the School of Allied Health Sciences and which meets national accreditation requirements.
2. To provide a curriculum which will enable students to develop the skills needed by practicing professionals in the HIM field and provide assurance that graduates demonstrate the entry-level competencies, as periodically defined by nationally accepted standards of practitioner roles and functions.
3. To encourage and support ongoing faculty development.
4. To meet the needs of the community of interest served by the HIM Program at SWOSU.

## PROGRAMS OF STUDY

**Major:** Health Information Management

**Minor:** Health Care Administration

## GENERAL INFORMATION

### THE PROFESSION

The Health Information Manager 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 retrieval and display, cancer registry, quality improvement, and diagnostic related groups. Job opportunities, other than hospitals, include outpatient clinics, health centers, medical research organizations, consulting firms or 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.

## ACCREDITATION

The Health Information Management Program is accredited by the Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Accreditation ensures that graduates will be eligible to take the National Registration Examination for the Registered Health Information Administrator (RHIA).

## 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. Students in Health Information Management will complete a minor in Health Care Administration. Many of the courses for this minor are completed during the pre-professional sequence. When most of these pre-professional courses are completed, students may apply for admission into the professional Health Information Management Program, which begins each fall. Applications are available during the fall semester and due in early January. Program interviews are held in February. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.25 in these courses. In addition, the student must complete 2442 Medical Terminology and 2714 Human Anatomy and Physiology prior to program entrance. Medical Terminology is offered each semester. Human Anatomy and Physiology is offered only in the spring semester. The number of applicants accepted will reflect an appropriate student-faculty ratio and the availability of appropriate clinical resources.

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:

- 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, such as transcription equipment, electronic movable files, copiers, etc.
- 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.

### **CLINICAL PRACTICE AND THE MANAGEMENT PRACTICUM**

The purpose of the professional practical experience (including 3971 Health Care Internship, 4051 Clinical Practice, and 4053 Management Practicum) is to provide the vital link between textbook, campus instruction, and on-site experience. Students will spend approximately 550-600 hours in health related facilities gaining "real life" experience. Affiliate sites are located in Oklahoma City and other Oklahoma locations. Special 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 and liability insurance coverage, as well as current physical examination and immunizations prior to the practical experience.

### **PROGRAM COMPLETION**

Students must achieve and maintain a 2.25 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.

# BACHELOR OF SCIENCE IN HEALTH INFORMATION MANAGEMENT

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts.....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies.....6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Applications**

## Health Information Management Major Code No. 551

**Professional Courses.....39**

**MEDRC 3023 Health Information Systems**  
**MEDRC 3033 Introduction to Health Information**  
**ALHLT 3043 Health Statistics**  
**ALHLT 3052 Advanced Medical Terminology I**  
**ALHLT 3072 Advanced Medical Terminology II**  
**MEDRC 3333 Coding I**  
**MEDRC 3342 Coding II**  
**MEDRC 4112 Quality Improvement**  
**MEDRC 4023 Health Information Application**  
**MEDRC 4033 Health Information Management**  
**MEDRC 4051 Clinical Practice (X 2)**  
**MEDRC 4153 Management Practicum**  
**ALHLT 4063 Pathophysiology I**  
**ALHLT 4073 Pathophysiology II**  
**MEDRC 4082 HIM Seminar**

**Ancillary Courses.....22**

**GEBUS 2723 Computer Business Applications**  
**ACCTG 2213 Principles of Accounting I**  
**ALHLT 2442 Medical Terminology\***  
**MNGMT 3333 Human Resource Management**  
**GEBUS 3423 Business Communications**  
**ALHLT 4093 Epidemiology**  
**ALHLT 4355 Microbiology**

**Health Care Administration Minor.....18**

**ALHLT 1401 Allied Health Careers**  
**BIOL 2714 Human Anatomy/Physiology\***  
**ALHLT 3193 Health Care Delivery**  
**ALHLT 3933 Management Health Care Institutions**  
**ALHLT 3963 Health Care Administration**  
**ALHLT 3971 Allied Health Internship**  
**ALHLT 4043 Medicolegal Concepts**

**Total.....123 - 124**

\*Must be completed prior to entering professional program.

Note: Students should visit with advisor prior to enrollment to assure proper sequencing of courses

## 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 (including last 8)..... 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		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 Biology Concepts..... 4	1004 General Chemistry.....4	1063 U.S. History ..... 3	1313 Intro to Public Speak..... 3
1113 English Comp I.....3	1003 General Psychology.....3	1103 American Governmt.....3	2723 Comp/Bus Applic ..... 3
1401 Allied Health Careers ..... 1	1213 English Comp II .....3	4355 Microbiology.....5	3193 Health Care Deliv ..... 3
1513 College Algebra .....3	1022 Comp/Info Access .....2	Gen Educ Crse. ....6	3333 Pers/HRM..... 3
2442 Medical Terminology.....2	2213 Prin. Of Acctg. I.....3	English Proficiency Exam***	2714 Anatomy & Physiol ..... 4
Freshman Orientation.....1			
Gen Educ Crse .....3			
Total..... 17	Total .....15	Total..... 17	Total ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER**	FIRST SEMESTER	SECOND SEMESTER
3033 Intro to Health Info.....3	3043 Health Statistics.....3	3023 Health Info Systems .....3	3342 Coding II..... 2
3052 Adv Med Term I.....2	3072 Adv Med Term II.....2	3333 Coding I ..... 3	4033 Health Info Mgmt ..... 3
3423 Bus Communications .....3	3963 Health Care Admin.....3	4112 Quality Improvement ..... 2	4082 HIM Seminar ..... 2
3933 Management HCI.....3	4051 Clinical Practice.....1	4023 Health Info Applic.....3	4153 Mgmt Practicum ..... 3
4043 Medicolegal.....3	4073 Pathophysiology II.....3	4051 Clinical Practice ..... 1	
4063 Pathophysiology I.....3	Gen Educ Crse.....3	4093 Epidemiology ..... 3	
Total..... 17	Total .....15	Total..... 15	Total ..... 10

\* Students should consider summer schools to lighten load.

\*\* 3971 Allied Health Internship (completed between Junior and Senior year)

\*\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

# SCHOOL OF ALLIED HEALTH SCIENCES

## MEDICAL TECHNOLOGY/CLINICAL LABORATORY SCIENCE

### FACULTY

Arden Aspedon, Program Director  
Science Building, Room 325

Phone: (580) 774-3046

E-mail: [arden.aspedon@swosu.edu](mailto:arden.aspedon@swosu.edu)  
<http://www.swosu.edu/medtech/>

G. Wolgamott, Associate Dean..... SCI 206.....[gary.wolgamott@swosu.edu](mailto:gary.wolgamott@swosu.edu) .....(580) 774-3079

### PROGRAM GOALS

The Medical Technology Program at Southwestern Oklahoma State University is designed to provide a Bachelor of Science degree in Medical Technology. The goals of the program are:

1. To provide students with appropriate prerequisite courses necessary for entry into accredited hospital based programs.
2. To provide students with traditional background and preparation to facilitate performance in the clinical practicum portion of the program.
3. To cooperate in the development of a structured clinical curriculum designed to satisfy entry-level competencies and success on national certification exams.

### PROGRAM OPTIONS

**B.S. DEGREE IN MEDICAL TECHNOLOGY ("3 + 1 PROGRAM")** - This is a four-year program with three years (90 credit hours) of prescribed college courses and one year of clinical training (30 credit hours) at an accredited hospital. See an advisor in the School of Allied Health Sciences for more information on this program.

**B.S. DEGREE IN HEALTH SCIENCE FOR MEDICAL TECHNOLOGY PLUS THE B.S. DEGREE IN MEDICAL TECHNOLOGY ("4 + 1 PROGRAM")**  
This five-year program involves completing a B.S. Degree in Health Sciences for Medical Technology majors and then completing the one year of clinical training (30 credit hours) at an accredited hospital for a B.S. Degree in Medical Technology.

### THE CLINICAL PRACTICUM

The clinical practicum is provided for SWOSU students by the hospitals listed below.

Northwest Texas School of  
Medical Technology ..... Amarillo, TX  
Comanche County Memorial Hospital..... Lawton, OK  
Muskogee General Hospital Lab..... Muskogee, OK  
St. Francis Hospital..... Tulsa, OK  
Valley View Hospital..... Ada, OK  
United Regional Health Care System .... Wichita Falls, TX

(Other accredited hospitals are available out-of-state). See advisor for information.)

The student must apply to an accredited Medical Technology Program for clinical training. The clinical

training sites are limited and competitive. It is recommended that students have a 2.5 GPA in their science courses (biology, chemistry and microbiology) to assure success in the clinical program. All clinical courses taken at the hospital must be completed before any letter grades are awarded. The clinical program consists of the following courses:

\*Clinical Practicum ..... 30  
MT 4117 Clinical Microbiology  
MT 4125 Clinical Chemistry I  
MT 4236 Clinical Hematology  
MT 4246 Clinical Immunology/ Immunohematology  
MT 4325 Clinical Chemistry II  
MT 4351 Topics in Medical Technology

\*Clinical Practicum must be performed at an accredited hospital affiliate.

### GENERAL INFORMATION

#### THE PROFESSION

A medical technologist/clinical laboratory scientist is, by virtue of training and education, able to perform required laboratory tests and give skillful assistance to the laboratory of a hospital or a private physician. In general, the duties are to perform the essential chemical, microscopic and bacteriological test procedures necessary for the proper diagnosis and treatment of disease.

Due to a reduction in the number of accredited training programs, there is a tremendous demand for medical technologists throughout the nation. There is 100% employment and many students are assured jobs before they complete their clinical training. Opportunities for employment include not only hospitals, but physician labs, reference labs, research and development, sales and industry. Also, many medical technology students have gone on to pursue M.D. and Ph.D. degrees.

#### ACCREDITATION

The Bachelor of Science degree in Medical Technology at SWOSU utilizes only accredited hospitals for clinical training. The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) coordinates accreditation for the teaching hospitals. This accreditation assures SWOSU students the opportunity to sit for national certification exams {ASCP (MT) and/or NCA (CLS)} and upon successful completion, be a certified Medical Technologist.

# BACHELOR OF SCIENCE

## MEDICAL TECHNOLOGY/CLINICAL LABORATORY SCIENCE (3+1)

### GENERAL EDUCATION

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

**TOTAL HOURS ..... 43 - 44**

**Composition..... 6**

ENGL 1113 English Composition I  
ENGL 1213 English Composition II

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

COMSC 1022 Computer & Information Access

**Natural Sciences ..... 8**

BIOL 1004 Biological Concepts (required)  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

POLSC 1103 American Government & Politics  
HIST 1063 U.S. History

**Economic & International Studies..... 6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics OR  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise Appl.

\* Required/suggested for admission to medical technology program and/or completion of degree.

### 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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework ..... 2.25  
Minimum Grade Point Average in major ..... 2.25

### Medical Technology

**Code No. 552**

**Required Health and Life Sciences..... 26**

ALHLT 3043 Health Statistics  
ALHLT 3193 Health Care Delivery  
ALHLT 4213 Immunology  
ALHLT 4355 Microbiology  
BIOL 3704 Human Anatomy  
BIOL 3904 Human Physiology  
BIOL 3254 Genetics

**Electives..... 14**

**Suggested Electives**

ALHLT 3933 Management of Health Care Inst  
ALHLT 3963 Health Care Administration  
ALHLT 4093 Epidemiology  
\*ALHLT 4404 Pathogenic Micro  
ALHLT 4453 Virology  
ALHLT 4523 Environmental Micro

\*Required for admission to medical technology program and/or completion of degree.

**Other Electives**

ALHLT 1401 Allied Health Careers  
ALHLT 2442 Medical Terminology  
ALHLT 3043 Health Statistics  
ALHLT 3972 Allied Health Internship  
ALHLT 4043 Medicolegal Concepts  
ALHLT 4063 Pathophysiology I  
ALHLT 4073 Pathophysiology II  
ALHLT 4802 History of Medicine  
ALHLT 4872 Hominology  
BIOL 4284 Animal Physiology  
BIOL 4933 Cell Physiology

**Minor: Chemistry Total ..... 18**

**Required Chemistry..... 10**

CHEM 1203 General Chemistry I  
CHEM 1252 General Chemistry I Lab  
CHEM 1303 General Chemistry II  
CHEM 1352 General Chemistry II Lab

**Elective Chemistry 8**

CHEM 3013 Organic Chemistry I AND  
CHEM 3111 Organic Chemistry I Lab  
CHEM 4113 Organic Chemistry II AND  
CHEM 4021 Organic Chemistry II Lab  
OR CHEM 2114 Organic/Biochemistry  
Quantitative Analysis & Lab  
OR CHEM 2114 Organic/Biochemistry  
CHEM 4124 Biochemistry

**Clinical (must be performed at an accredited**

**hospital affiliate)..... 30**

MT 4117 Clinical Microbiology  
MT 4125 Clinical Chemistry I  
MT 4236 Clinical Hematology  
MT 4246 Clinical Immunology  
MT 4325 Clinical Chemistry II  
MT 4351 Topics in Medical Technology

**Total ..... 120**



# BACHELOR OF SCIENCE HEALTH SCIENCE MAJOR FOR MEDICAL TECHNOLOGY (4+1)

*(Includes all Pre-Medical Technology prerequisites in Health Sciences major.)*

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences.....8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 **General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government.....6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies.....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## 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 (including last 8).....30

Minimum Grade Point Average in all coursework.....2.25

Minimum Grade Point Average in major.....2.25

## Dual Degree

**Health Science Major – Code No. 553**

**Medical Technology – Code No. 552**

**Required Health and Life Sciences.....33**

ALHLT 3193 Health Care Delivery  
ALHLT 3933 Management of Health Care Inst  
ALHLT 3963 Health Care Administration  
ALHLT 3972 Allied Health Internship  
ALHLT 4043 Medicolegal Concepts  
ALHLT 4093 Epidemiology  
\*ALHLT 4213 Immunology  
\*ALHLT 4355 Microbiology  
\*BIOL 3704 Human Anatomy  
\*BIOL 3904 Human Physiology

\* Required for admission to medical technology program and/or  
completion of degree

**Electives.....7 - 10**

ALHLT 1401 Allied Health Careers  
ALHLT 2442 Medical Terminology  
\*ALHLT 3043 Health Statistics  
ALHLT 4063 Pathophysiology I  
ALHLT 4073 Pathophysiology II  
\*\*ALHLT 4404 Pathogenic Micro  
ALHLT 4453 Virology  
ALHLT 4523 Environmental Micro  
ALHLT 4802 History of Medicine  
ALHLT 4872 Hominology  
\*BIOL 3254 Genetics  
BIOL 4284 Animal Parasitology  
BIOL 4933 Cell Physiology

\*Required for admission to medical technology program and/or completion  
of degree

\*\*Suggested elective for admission to medical technology program and/or  
completion of degree

Minor: Chemistry Total.....18

**Required Chemistry.....10**

CHEM 1203 General Chemistry I  
CHEM 1252 General Chemistry I Lab  
CHEM 1303 General Chemistry II  
CHEM 1352 General Chemistry II Lab

**Elective Chemistry.....8**

CHEM 3013 Organic Chemistry I **AND**  
CHEM 3111 Organic Chemistry I Lab  
CHEM 4113 Organic Chemistry II **AND**  
CHEM 4021 Organic Chemistry II Lab  
**OR** CHEM 2114 Organic/Biochemistry  
CHEM Quantitative Analysis & Lab  
**OR** CHEM 2114 Organic/Biochemistry  
CHEM 4124 Biochemistry

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

MT 4117 Clinical Microbiology  
MT 4125 Clinical Chemistry I  
MT 4236 Clinical Hematology  
MT 4246 Clinical Immunology  
MT 4325 Clinical Chemistry II  
MT 4351 Topics in Medical Technology

Electives to bring total.....120

# SCHOOL OF ALLIED HEALTH SCIENCES

## HEALTH SCIENCES

### FACULTY

Gary Wolgamott, Associate Dean

Science Building, Room 206

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L. Appeddu .....	SCI 202A.....	<a href="mailto:lisa.appeddu@swosu.edu">lisa.appeddu@swosu.edu</a> .....	(580) 774-3148
A. Aspedon .....	SCI 325.....	<a href="mailto:arden.aspedon@swosu.edu">arden.aspedon@swosu.edu</a> .....	(580) 774-3046
H. Cole.....	SCI 110E .....	<a href="mailto:harold.cole@swosu.edu">harold.cole@swosu.edu</a> .....	(580) 774-3099
M. Prichard .....	SCI 202B .....	<a href="mailto:marion.prichard@swosu.edu">marion.prichard@swosu.edu</a> .....	(580) 774-3287
T. Stubbs.....	SCI 202C .....	<a href="mailto:teri.stubbs@swosu.edu">teri.stubbs@swosu.edu</a> .....	(580) 774-3067

### PROGRAM 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 and provide a health sciences knowledge base. Such programs shall include, but are not limited to, Medical Technology, Medicine, Physicians Associate, Physical Therapy, Occupational Therapy, Clinical Dietetics, Radiology, Dentistry, Dental Hygiene, Optometry and others.
3. To provide students a bachelor's degree tract while completing prerequisites and applying for technical programs at the Associate Degree level. Such programs shall include Physical Therapy Assistant, Occupational Therapy Assistant, Radiological Technician, and Medical Laboratory Technician.

### PROGRAM OF STUDY

**Major:** Health Sciences

**Minor:** Choice of Biology, Business, Chemistry, Physics, Psychology, Gerontology, Computer Science, and others with approval.

**NOTE:** Certain minors may be required for specialized programs.

### GENERAL INFORMATION

The Bachelor of Science degree with a major 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, or seeking specialized training in one of many professional health areas. The program also includes an experienced based internship in an approved health care facility. This type of experience is essential in understanding the complexity and issues that confront modern health care.

**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).**

The health care industry is one of the major employers of this decade and we are excited about bringing 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.

In some professional health care fields, there are degree options that affect time to degree but still result in professional certification. Listed below are some of these program options. If you have questions about specific health care programs, please see the Allied Health Sciences secretary, SCI 206, so you may be helped and/or directed to an advisor for that program. Also, you may refer to the pre-professional curriculum in this catalog (see index).

#### Dental Hygiene

Associate of Applied Science in Dental Hygiene (3 years)

OR

Bachelor of Science in Dental Hygiene (4 years)

#### Radiology

Associate of Applied Science in Radiology (3 years)

OR

Bachelor of Science in Radiography,

Radiation Therapy, Nuclear Medicine or Sonography (Ultra Sound)  
(4 years)

#### Physical Therapy

Associate of Applied Science in Physical Therapist Asst (2 years)

OR

Master's level in Physical Therapy (6 - 7 years)

#### Occupational Therapy

Associate of Applied Science

in Occupational Therapy Asst. (2.25 years)

OR

Master's level in Occupational Therapy (6 - 7 years)

# BACHELOR OF SCIENCE HEALTH SCIENCE MAJOR

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition .....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications .....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences .....8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts .....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government .....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies .....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies .....6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Applications**

(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.)

## Health Science Major Code No. 553

**Required Health and Life Sciences.....30**

**ALHLT 3193 Health Care Delivery**  
**ALHLT 3933 Mngmt of Health Care Inst**  
**ALHLT 3963 Health Care Administration**  
**ALHLT 3972 Allied Health Internship**  
**ALHLT 4093 Epidemiology**  
**ALHLT 4043 Medicolegal Concepts**  
**ALHLT 4355 Microbiology**  
**BIOL 3704 Human Anatomy**  
**BIOL 3904 Human Physiology**

**Electives ..... 10-12**

**ALHLT 1401 Allied Health Careers**  
**ALHLT 2442 Medical Terminology**  
**ALHLT 3043 Health Statistics**  
**ALHLT 4063 Pathophysiology I**  
**ALHLT 4073 Pathophysiology II**  
**ALHLT 4213 Immunology**  
**ALHLT 4404 Pathogenic Micro**  
**ALHLT 4453 Virology**  
**ALHLT 4523 Environmental Micro**  
**ALHLT 4802 History of Medicine**  
**ALHLT 4872 Hominology**  
**BIOL 3254 Genetics**  
**BIOL 4933 Cell Physiology**  
**BIOL 4284 Animal Parasitology**

Minors: (The “flex minor” allows students to minor in areas that will benefit their professional goals.)

**Biology - 20 hrs. OR Business - 18 hrs. OR**  
**Physics - 22 hrs. OR Psychology - 20 hrs. OR**  
**Computer Science - 18 hrs. OR**  
**Chemistry - 20 hrs (18 for MT/CLS)**

(Other Minors available with approval)

**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 (including last 8).....30**  
**Minimum Grade Point Average in all coursework .....2.25**  
**Minimum Grade Point Average in major .....2.25**

# **Degrees Offered in the COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES**

## **SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION**

**Dr. Ken Rose, Dean**  
**Dr. Gary Gilliland, Associate Dean**

### **EDUCATION**

#### **SCHOOL SERVICE PROGRAMS**

#### **ELEMENTARY-SECONDARY PROGRAMS**

Art Education – B.A.Ed.  
Health and Physical Education – B.S.Ed  
Music-Instrumental/General – B.M.Ed  
Music-Vocal/General – B.M.Ed.  
Special Education – B.S.Ed.

#### **ELEMENTARY PROGRAMS**

Elementary Education – B.S.Ed.

#### **SECONDARY EDUCATION**

English Education – B.A.Ed.  
History Education – B.A.Ed.  
Mathematics Education – B.A.Ed.  
Natural Science Education – B.S.Ed.  
Technology Education – B.S.Ed.

#### **ADDITIONAL CERTIFICATION AREAS**

Early Childhood Education  
Speech and Drama

### **HEALTH AND PHYSICAL EDUCATION**

#### **PARKS AND RECREATION MANAGEMENT**

Parks and Recreation Management – B.S.  
Park Law Enforcement – B.S.

#### **PSYCHOLOGY**

Psychology – B.S.

#### **SOCIAL WORK**

Social Work – B.S.W.

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## DEPARTMENT OF EDUCATION

### 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 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 I 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

## SCHOOL SERVICE PROGRAMS

### FACULTY

James Tate, Chair  
Education Building, Room 101  
Phone: (580) 774-3285  
E-mail: [jim.tate@swosu.edu](mailto:jim.tate@swosu.edu)  
<http://www.swosu.edu/education/>

M. Aspedon..... EDU 214D .....[mary.aspedon@swosu.edu](mailto:mary.aspedon@swosu.edu) .....(580) 774-3196  
R. Vanderslice..... EDU 118A .....[ronna.vanderslice@swosu.edu](mailto:ronna.vanderslice@swosu.edu) .....(580) 774-3145  
D. Wilson..... EDU 214E .....[don.wilson@swosu.edu](mailto:don.wilson@swosu.edu) .....(580) 774-3215

### DEPARTMENTAL GOALS

The purposes of the curricula and activities in the department are to assist students in the process of induction into the field of education, to provide necessary educational and field experiences to assist students to make the transition from novice to expert status in modern education, and to coordinate the various programs and activities associated with these efforts.

### DEPARTMENT GOALS

1. Induct students into the field of education by providing theoretical and practical experiences in classes and public school settings.
2. Continue the development process by providing opportunities for practical experience in general and specialized areas such as elementary education, special education, and secondary education.
3. Enable students to synthesize knowledge and skills into an initial model of teaching, or counseling and guidance of school through student teaching or internships in school administration or counseling and guidance. Other experiences are provided through the residency program.

### PROGRAMS OR COURSES OF STUDY

Educational Administration  
School Counseling  
Community Counseling  
School Psychometry

### GENERAL INFORMATION

The following persons can be contacted to provide information on counseling courses or programs:

Gary Gilliland, Ed.D.

The following persons can be contacted to provide information on administration courses or programs:

Mary Aspedon, Ph.D.  
James Tate, Ph.D.  
Ronna Vanderslice, Ed.D.  
Donald R. Wilson, Ph.D.

Students completing approved programs must make a passing score on examinations required by the Oklahoma Commission for Teacher Preparation. The completed application is to be filed with the Certification Analyst in the Department of Education. Certificates are granted by the State Board of Education through the Oklahoma Commission for Teacher Preparation.

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## ELEMENTARY-SECONDARY PROGRAMS

### FACULTY

James Tate, Chair  
Education Building, Room 101  
Phone: (580) 774-3285  
E-mail: [jim.tate@swosu.edu](mailto:jim.tate@swosu.edu)  
<http://www.swosu.edu/education/>

D. Case .....	EDU 118C .....	<a href="mailto:debbie.case@swosu.edu">debbie.case@swosu.edu</a> .....	(580) 774-3197
K. Kelly .....	EDU 120D .....	<a href="mailto:kim.kelly@swosu.edu">kim.kelly@swosu.edu</a> .....	(580) 774-7115
V. Gilliland .....	EDU 110 .....	<a href="mailto:vicki.gilliland@swosu.edu">vicki.gilliland@swosu.edu</a> .....	(580) 774-3146
P. Perkins .....	EDU 118B .....	<a href="mailto:patti.perkins@swosu.edu">patti.perkins@swosu.edu</a> .....	(580) 774-3276
A. Russell .....	EDU 120C .....	<a href="mailto:ann.russell@swosu.edu">ann.russell@swosu.edu</a> .....	(580) 774-3277
K. Travis .....	EDU 120B .....	<a href="mailto:karen.travis@swosu.edu">karen.travis@swosu.edu</a> .....	(580) 774-3158

### 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. 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. Have intense involvement in the response to personal visual experiences.
2. Perceive and understand visual relationships in the environment.
3. Think, feel, and act creatively with visual art materials.
4. Increase manipulative and organizational skills in art performance appropriate to abilities.
5. Acquire a knowledge of man's visual art heritage.
6. Use art knowledge and skills in personal and community life.
7. Make intelligent visual judgment suited to experience and maturity.
8. Understand the nature of art and the creative process.

### 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 train musicians who are proficient in composing, performing, and analyzing music.
2. To train competent instrumental and vocal music teachers.
3. To prepare students academically for graduate study.
4. To provide training in the basic skills of music for teacher education students whose major is not music.
5. To foster a respect on the part of all students for the integral role of music in contributing to the quality of life.

### SPECIAL EDUCATION

1. Utilize and implement a wide variety of instructional strategies in various educational settings with learning disabled and/or mentally handicapped 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

### GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications.....2**

**COMSCI 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
**LIT 2413 Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

### FOR INFORMATION CONTACT:

Mr. Joe London, Chair  
Department of Art  
Phone: (580) 774-3757  
E-mail: [joe.london@swosu.edu](mailto:joe.london@swosu.edu)

### REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 137  
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 ..... 2.50

### Art Education Major Code No. 701

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

Approved Elective Drawing Area .....6

ART 3153 Figure Drawing  
ART 3753 Life Drawing  
\*ART 4333 Studio Drawing

Approved Elective Painting Area .....3

\*ART 3113 Watercolor Studio  
\*ART 4313 Painting Studio

Art History 9

ART 3613 History of Art I  
ART 3653 History of Art II  
ART 4353 Modern Art History  
ART 4383 Art History Since 1945

Approved Elective 3000 or 4000 level ART .....3

**Total.....49**

\*Denotes upper level studio classes repeatable twice for credit to fulfill requirements.

Professional Education Requirements.....38

Certificate/Foundations Courses  
EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
PSYCH 3213 Developmental Psychology

### Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3453 Educational Psychology (Elem)  
**OR** EDPSY 3653 Educational Psychology (Sec)  
ELEM 4613 Educ. Tests & Measurements (Elem)  
**OR** SECED 4813 Educ. Tests & Measurements (Sec)  
ELEM 4833 Principles of Teaching Elementary  
**OR** SECED 4823 Principles 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 Critical Issues in Education  
EDUC 4041 Classroom Management  
ELEM 4765 Student Teaching in the Elem School  
SECED 4965 Student Teaching in the Sec Schl

Total hours for degree ..... 137

# ART EDUCATION (CODE 701)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1133 Foundations II..... 3	1003 Gen Psychology .....3	1103 World Cult Geog .....3
1022 Comp /Info Access ..... 2	Gen Educ Crse ..... 3	1143 Foundations III.....3	1004 Biological Conc.....4
1113 English Comp I ..... 3	1213 English Comp II..... 3	Gen Educ Crse ..... 3	2113 Foundations of Ed .....3
1123 Foundations I..... 3	2413 Intro to Literature..... 3	2113 Acrylic Tech .....3	3132 Exceptional Child.....2
Gen Educ Crse ..... 3	4253 Applied Design ..... 3	3353 Clay Studio ..... 3	3413 Sculpture ..... 3
Art Hist (as offered) ..... 3	Art Hist (as offered)..... 3	Art Hist (as offered)..... 3	3 Hrs Studio Elective ..... 3
		English Proficiency Exam**	
Total: ..... 15	Total: ..... 18	Total: ..... 18	Total: ..... 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Gen Educ Crse ..... 4	1033 World History ..... 3	Studio Elective..... 3	4651 Senior Exhibit ..... 1
2133 Intro. to Graph. Des. .... 3	1063 US History ..... 3	3423 Media and Tech ..... 3	Professional Semester ..... 13
3213 Develop Psych..... 3	1103 American Govt..... 3	3653 Educational Psych..... 3	
3483 Printmaking ..... 3	4553 Teachers Crse Art ..... 3	4813 Educ Tests & Meas ..... 3	
4452 CMM Elem Art ..... 2	Studio Elective..... 3	4823 Prin of Teaching..... 3	
Studio Elective ..... 3			
Total: ..... 18	Total: ..... 15	Total: ..... 15	Total: ..... 14

\* First-time entering freshman 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

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies.....6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Applications**

## FOR INFORMATION CONTACT:

Dr. Vicki Hatton, Chair

Department of Health and Physical Education

Phone: (580) 774-3181

E-mail: [vicki.hatton@swosu.edu](mailto:vicki.hatton@swosu.edu)

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....122-123

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 (including last 8).....30

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

## Health and Physical Education Major

**Code No. 709**

Required Courses .....28

**HPE 1932 Tech as Appl to Gym, Fitness, & Aqua**  
**HPE 1942 Tech as Applied to Individual Sports**  
**HPE 1952 Techniques as Applied to Team Sports**  
**HPE 2222 Foundations of HPER**  
**HPE 2242 Sports Officiating**  
**OR HPE 4222 Organ & Mngt of Intramurals**  
**HPE 2212 First Aid**  
**HPE 2502 Care and Prevention of Athletic Injuries**  
**HPE 3133 Teaching Health in the Public Schools**  
**HPE 3443 Kinesiology and Anatomy**  
**HPE 4233 Exercise Physiology**  
**HPE 4243 Therapeutic & Prescriptive Phys Educ**  
**HPE 4262 Motor Learning**

Electives 9

(Selected courses from those listed below)

**PRM 3663 Recreation Management**  
**PRM 4163 Community Recreation**  
**PRM 4663 Outdoor Recreation**  
**PRM 4773 Nat. Resources Rec. Mgmt**  
**HPE 4052 Sociology of Sports**  
**HPE 4063 Legal Aspects in PE, Rec, & Athletics**  
**HPE 4073 Evaluation in Physical Education**  
**HPE 4113 Organization & Admin of HPER**  
**HPE 4122 Organization & Admin of Athletics**  
**HPE 4333 Principles and History of H & PE**  
**ATEP 4344 A T Evaluation Ortho Injuries**  
**HPE 4353 Motor Development**  
**ATEP 4433 Athletic Training Modalities/Lab**  
**HPE Theory of Coaching –HPE 4802 Football, HPE 4832**  
**Basketball, HPE 4842 Women's Basketball, HPE**  
**4862 Baseball, HPE 4892 Track and Minor Sports**  
**HPE 4873 Curriculum Construction in HPER**

Activity Electives .....2

Professional Education Requirements .....40

Certificate/Foundations Courses

**EDUC 2113 Foundations of Education**  
**SPCED 3132 Exceptional Children**  
**PSYCH 3213 Developmental Psychology**

## 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 Tests & Measure (Elem)**  
**OR SECED 4813 Educ Tests & Measurements (Sec)**  
**ELEM 4833 Prin of Teaching Elementary**  
**OR SECED 4823 Prin of Teaching Secondary**  
**HPE 3553 Methods & Materials Elem HPER**  
**HPE 4553 Teacher's Course in H&PE**  
**HPE 4541 Capstone Experience in HPER**

Professional Semester

**EDUC 3321 Multicultural/Special Populations**  
**EDUC 4021 Critical Issues in Education**  
**EDUC 4041 Classroom Management**  
**ELEM 4765 Student Teaching in the Elem Schl**  
**SECED 4965 Student Teaching in the Sec Schl**

Total hours for degree .....122-123

## HPE EDUCATION (CODE 709)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1003 Gen Psychology .....3	1004 Biological Conc .....4	1932 Tch Ap Gym, Ft Aq .....2
1022 Comp Info Access..... 2	1033 World History .....3	1103 American Govt .....3	1942 Tech App to Ind Spts ....2
1063 US History ..... 3	1213 English Comp II .....3	2222 Foundations HPER .....2	4222 Org Mn Int
1113 English Comp I ..... 3	2212 First Aid .....2	2413 Intro to Lit .....3	<b>or</b> 2242 Spt Off..... 2
1133 Wellness Concept ..... 3	Gen Educ Crse .....3	Major Elective.....3	Gen Educ Crse .....3
Gen Educ Crse.....3	P. E. Activity.....2	English Proficiency Exam**	Gen Educ Crse .....4
			Major Elective .....3
Total: ..... 15	Total:.....16	Total: .....15	Total: .....16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1952 Tch Ap to Team Spt..... 2	3133 Tchng Hlth Pub Sch .....3	3423 Media & Tech .....3	3321 Multi/Spec Pop ..... 1
2502 Care & Prev Ath Inj ..... 2	3553 M & M Elem PE .....3	3453 <b>or</b> 3653 Edu Psych .....3	4021 Critical Issues in Ed ..... 1
2113 Foundations of Educ ..... 3	3213 Develop Psych.....3	4553 Tchrs Crse H&PE.....3	4041 Classroom Mgmt..... 1
3132 Exceptional Children ..... 2	4233 Exer Physiology	4541 Capstone.....1	4765 St Teaching in Elem.....5
4233 Exercise Physiology	<b>or</b> 3443 Kines & Antmy.....3	4613 <b>or</b> 4813 Ed Test/Meas.....3	4965 St Teaching in Sec .....5
<b>or</b> 3443 Kines & Antmy ..... 3	4262 Motor Learning .....2	4833 Pr Tch El	
4243 Ther/Prec Phys Ed ..... 3	Major Elective.....2	<b>or</b> 4823 Pr Tch Sec.....3	
Major Elective ..... 2			
Total: ..... 17	Total:.....16	Total: .....16	Total: .....13

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

# BACHELOR OF MUSIC EDUCATION

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences ..... 8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music**  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies ..... 6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## FOR INFORMATION CONTACT:

Dr. Terry Segress, Chair

Department of Music

Phone: (580) 774-3175

E-mail: [terry.segress@swosu.edu](mailto:terry.segress@swosu.edu)

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 139

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 (including last 8)..... 30

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

## Instrumental/General Music Major

**Code No. 738**

Required Courses..... 66

MUSIC 1214 Music Theory I  
MUSIC 1314 Music Theory II  
MUSIC 3253 Music Theory III  
MUSIC 3303 Music Theory IV  
MUSIC 3502 Counterpoint  
MUSIC 4232 Instrumentation  
MUSIC 1032 Introduction to Music II  
MUSIC 3353 History of Music I  
MUSIC 3403 History of Music II  
MUSIC 2981 Principles of Conducting  
MUSIC 3101 Instrumental Conducting

## Principal Applied Study

(One Orchestral Instrument) (8 hours)

## Secondary Applied Study (6 hours)

MUSIC 1911 Beginning Guitar Class  
MUSIC 1411 Brass Class  
MUSIC 1511 Woodwind Class  
MUSIC 1611 Percussion Class  
MUSIC 1711 String Class  
MUSIC 4261 Intro to Music Tech

## Class Piano (4 hours)

MUSIC 2811 Class Piano I  
MUSIC 2821 Class Piano II  
MUSIC 2831 Class Piano III  
MUSIC 2841 Class Piano IV

## Applied Music Proficiency Exams I, II, and III (Principal Area)

Band (Enroll each semester) (7 hours)

Chamber Ensemble (1 hour)

Choral Ensembles (2 hours)

MUSIC 2101 Voice Class (2 hours)  
MUSIC 4900 Recital Atten (Enroll each semester)  
MUSIC 4950 Senior Recital in Prin Appl Music Area  
MUSIC 4302 Elementary-Secondary General Music  
MUSIC 4402 Band Methods  
MUSIC 4602 Instrumental Literature  
MUSIC 4222 Instrumental Pedagogy

Professional Education Requirements..... 30

## Certificate/Foundations Courses

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
PSYCH 3213 Developmental Psychology

## Foreign Language Proficiency (Required)

### Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3453 Educational Psychology (Elem)  
**OR** EDPSY 3653 Educational Psychology (Sec)  
ELEM 4833 Principles of Teaching Elementary  
**OR** SECED 4823 Principles of Teaching Sec

### Professional Semester

EDUC 3321 Multicultural/Special Populations  
EDUC 4021 Critical 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..... 139

# BACHELOR OF MUSIC EDUCATION

## GENERAL EDUCATION

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

**TOTAL HOURS** ..... 43 - 44

**Composition** ..... 6

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

**Mathematics** ..... 3

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications** ..... 2

**COMSC 1022 Computer & Information Access**

**Natural Sciences** ..... 8

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts** ..... 6

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** ..... 6

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies** ..... 6

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies** ..... 6 - 7

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
\_\_\_\_4 World Languages  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

## FOR INFORMATION CONTACT:

Dr. Terry Segress, Chair  
Music Department

Phone: (580) 774-3175

E-mail: [terry.segrees@swosu.edu](mailto:terry.segrees@swosu.edu)

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ..... 137

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 (including last 8) ..... 30

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

## Vocal & General Music Major

**Code No. 739**

Required Courses ..... 64

**MUSIC 1214 Music Theory I**  
**MUSIC 1314 Music Theory II**  
**MUSIC 3253 Music Theory III**  
**MUSIC 3303 Music Theory IV**  
**MUSIC 3502 Counterpoint**  
**MUSIC 1032 Introduction to Music II**  
**MUSIC 3353 History of Music I**  
**MUSIC 3403 History of Music II**  
**MUSIC 2981 Principles of Conducting**  
**MUSIC 3151 Choral Conducting**

### Principal Applied Music Area

(Voice or Keyboard) (10 hours)

**MUSIC 4950 Senior Recital in Prin Appl Music Area**

### Secondary Applied Music Area

(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:

#### For Voice Principals:

Proficiency Exams in Voice Level I, II, and III

#### For Piano Principals:

Proficiency Exams in Voice Level I, II, and III  
Proficiency Exams in Piano Level I, II, and III

Chorus (Enroll each semester) (7 hours)

Orchestral/Band Instruments & Ensembles (5 hrs)

(Two semesters of Band or Orchestra may substitute for any two of the classes below, provided the five-hour total in this area provides instruction on and/or the student demonstrates basic performance ability in all four of the instrument families.)

**MUSIC 1411 Brass Class**  
**MUSIC 1511 Woodwind Class**  
**MUSIC 1611 Percussion Class**  
**MUSIC 1711 String Class**  
**MUSIC 1911 Beginning Guitar Class (required)**

**MUSIC 2951 Modern Language Diction**  
**MUSIC 4261 Intro to Music Tech**  
**MUSIC 4900 Recital Attendance (Enroll each semester)**  
**MUSIC 4302 Elementary-Secondary General Music**  
**MUSIC 4452 Vocal Methods**  
**MUSIC 4502 Choral Literature**

Professional Education Requirements ..... 30

### Certificate/Foundations Courses

**EDUC 2113 Foundations of Education**  
**SPCED 3132 Exceptional Children**  
**PSYCH 3213 Developmental Psychology**

### Foreign Language Proficiency (Required)

#### Pre-Professional Semester

**LIBED 3423 Media & Technology**  
**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 Critical 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 ..... 137

## MUSIC EDUCATION (INSTRUMENTAL/GENERAL) (Code 738)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1032 Intro Music II ..... 2	2831 Class Piano III ..... 1	2113 Found Of Educ ..... 3
1013 Intro to Music I ..... 3	1213 English Comp II ..... 3	2981 Prin Of Conducting ..... 1	2841 Class Piano IV ..... 1
1113 English Comp I ..... 3	1314 Music Theory II ..... 4	3253 Music Theory III ..... 3	3101 Instru Conducting ..... 1
1214 Music Theory I ..... 4	2101 Voice Class ..... 1	3353 History Of Music I ..... 3	3303 Music Theory IV ..... 3
2811 Class Piano I ..... 1	2821 Class Piano II ..... 1	4900 Recital Attendance	3403 History Of Music II ..... 3
4900 Recital Attendance	4900 Recital Attendance	Band ..... 1	4900 Recital Attendance
Band** ..... 1	Band ..... 1	Choral Ensemble ..... 1	Applied Voice ..... 1
Choral Ensemble ..... 1	Crse from List Below ..... 2	Gen Educ Crse ..... 3	Band ..... 1
Prin Applied Instr ..... 1	Gen Educ Crses ..... 3	Principal Applied Instr ..... 2	Gen Educ Crses ..... 3
Secondary Instr Class ..... 1	Prin Applied Instr ..... 1	Secondary Instr Class ..... 1	Prin Applied Instr ..... 1
	Proficiency Exam I	Crse from List Below ..... 2	Proficiency Exam II
		English Proficiency Exam***	Secondary Instr Class ..... 1
Total: ..... 16	Total: ..... 18	Total: ..... 18	Total: ..... 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint ..... 2	4232 Instrumentation ..... 2	4900 Recital Attendance	3321 Multicultural ..... 1
4900 Recital Attendance	4900 Recital Attendance	4950 Senior Recital	4021 Critical Issues In Ed ..... 1
Band ..... 1	Band ..... 1	Band ..... 1	4041 Classroom Mngment ..... 1
Crses from List Below ..... 5	Crses from List Below ..... 5	Crses from List Below ..... 8	4765 Sdt Tchng Elem Schl ..... 5
Gen Educ Crses ..... 9	Gen Educ Crses ..... 9	Gen Educ Crses ..... 7	4965 Sdt Tchng Sec Schl ..... 5
Prin Applied Instr ..... 1	Prin Applied Instr ..... 1	Prin Applied Instr ..... 1	
Secondary Instr Class ..... 1	Secondary Instr Class ..... 1	Secondary Instr Class ..... 1	
Chamber Ensemble ..... 1	Proficiency Exam III		
Total: ..... 20	Total: ..... 19	Total: ..... 18	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 Ed Psych

4402 Band Methods (Fall/Odd Years)

3423 Media & Technology

4602 Instr Literature (Spring/Even Yrs)

4222 Instrum Pedagogy(Fall/Odd Years)

4823 Princ Tchng Secondary

3132 Exceptional Children

Total: 22 Hrs

\* First-time entering Freshman 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.

## MUSIC EDUCATION (VOCAL/GENERAL) (Code 739)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1032 Intro Music II ..... 2	2831 Class Piano III ..... 1	2113 Found Of Education ..... 3
1013 Intro to Music I ..... 3	1213 English Comp II ..... 3	2981 Prin Of Conducting ..... 1	2841 Class Piano IV ..... 1
1113 English Comp I ..... 3	1314 Music Theory II ..... 4	3253 Music Theory III ..... 3	3151 Choral Conducting ..... 1
1214 Music Theory I ..... 4	2821 Class Piano II ..... 1	3353 History Of Music I ..... 3	3303 Music Theory IV ..... 3
2811 Class Piano I ..... 1	4900 Recital Attendance	4900 Recital Attendance	3403 History Of Music II ..... 3
4900 Recital Attendance	Choral Ensemble ..... 1	Choral Ensemble ..... 1	4900 Recital Attendance
Choral Ensemble ..... 1	Crse From List Below ..... 2	Crse From List Below ..... 1	Choral Ensemble ..... 1
Crse From List Below ..... 1	Gen Educ Crses ..... 3	Gen Educ Crses ..... 6	Gen Educ Crses ..... 4
Prin Applied ..... 1	Instr Class or Band ..... 1	Instru Class Or Band ..... 1	Instr Class or Band ..... 1
Instru Class Or Band ..... 1	Prin Applied ..... 1	Prin Applied ..... 1	Prin Applied ..... 1
	Proficiency Exam I	English Proficiency Exam**	Proficiency Exam II
Total: ..... 16	Total: ..... 18	Total: ..... 18	Total: ..... 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint ..... 2	4900 Recital Attendance	4900 Recital Attendance	3321 Multicultural ..... 1
4900 Recital Attendance	Choral Ensemble ..... 1	Choral Ensemble ..... 1	4021 Critical Issues In Ed ..... 1
Choral Ensemble ..... 1	Crses From List Below ..... 6	Crse From List Below ..... 6	4041 Classroom Mngment ..... 1
Crses From List Below ..... 6	Gen Educ Crses ..... 7	Gen Educ Crses ..... 7	4765 Sdt Tchng Elem Schl ..... 5
Gen Educ Crses ..... 7	Principal Applied ..... 2	Principal Applied ..... 2	4075 Sdt Tchng Sec Schl ..... 5
Secondary Applied ..... 1	Secondary Applied ..... 1	Secondary Applied ..... 2	
Principal Applied ..... 2	Proficiency Exam III		
	Instru Class or Band ..... 1		
Total: ..... 19	Total: ..... 18	Total: ..... 18	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)

4502 Choral Lit (Spring/Odd Years)

3423 Media & Technology

3213 Developmental Psychology

3132 Exceptional Children

4261 Introduction to Music Tech

4823 Princ Tchng Secondary

3653 Ed Psych

Total: 22 Hrs

\* First-time entering Freshman need to take 1001 Freshman Orientation

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.



# BACHELOR OF SCIENCE IN EDUCATION SPECIAL EDUCATION

## GENERAL EDUCATION

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

**REQUIRED HOURS.....43 - 44\***

**Composition .....6**

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

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

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR a  
higher numbered math course

\*\* MATH 1433 Structural Concepts in Arithmetic should be taken to satisfy the Mathematics component of the General Education Program.

**Computer Applications .....2**

COMSC 1022 Computers & Information Access

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry or  
higher numbered chemistry course

**Humanities and Fine Arts .....6**

ART 1223 Art Survey  
**LIT 2413 Introduction to Literature**  
MUSIC 1013 Introduction to Music I  
PHILO 1453 Introduction to Philosophy  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

HIST 1063 U.S. History  
POLSC 1103 American Government & Politics

**Economic & International Studies.....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, and Cultural Studies.....6-7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Introduction to Sociology  
\_\_\_\_\_4 World Languages  
TECH 1123 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

\* Teacher Education candidates majoring in Elementary and Special Education must have:  
12 hours of Social Studies  
12 hours of Mathematics  
12 hours of Language Arts  
12 hours of Science

In addition, the candidates must have World Language proficiency at the college level **or** 2 years of C or better of the same language in high school.

## FOR INFORMATION CONTACT:

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## Special Education Major Code No. 735

Required Courses ..... 19

MATH 1443 Structural Concepts in Mathematics  
MATH 1503 Algebra for Elementary Teachers  
MATH 2133 Geometry for Elementary Teachers  
SCI 3314 Geological Science for Elem Teachers  
RDNG 3423 Teaching Reading I  
LIT 4463 Children's Literature

Specialization 27

SPCED 3213 Introduction to Special Education  
SPCED 4623 Instruct Con/Pract for Students M/M  
SPCED 4613 Instruct Cont/Pract for Students S/P  
SPCED 4223 Detecting & Correcting Spec Problems  
SPCED 4852 Enhan Comm/Coll in the Trans Proc  
SPCED 4362 Legal and Ethical Prac in Spec Educ  
ECED 4162 Perceptual Dev in Infants/Toddlers  
SPCED 4762 Technology in Special Education  
SPCED 3433 Assess, Diag/Eval of Except Child  
SPCED 4862 Planning/Manag the Tchng Environ  
SPCED 4811 Practicum - Sev/Prof & Mult Disab  
SPCED 4821 Practicum - Mild/Mod Disabilities

Professional Education Requirements..... 33

Certificate/Foundations Courses

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
PSYCH 3213 Developmental Psychology

## Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3453 Educational Psychology (Elem)  
**OR** EDPSY 3653 Educational Psychology (Sec)  
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 Critical Issues in Education  
EDUC 4041 Classroom Management  
ELEM 4765 Student Teaching in the Elem Schl  
SECED 4965 Student Teaching in the Sec Schl

Program Total ..... 123

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ..... 123

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 (including last 8) ..... 30

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



**SPECIAL EDUCATION (CODE 735)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1003 Gen Psych .....3	1063 U. S. History .....3	1103 World Cult Geog.....3
Gen Educ Crse..... 2	1103 Amer Govt & Pol .....3	Gen Educ Crse .....3	1004 Biological Conc .....4
1033 World History ..... 3	1213 English Comp II .....3	2113 Found of Educ.....3	3213 Dev Psych ..... 3
1113 English Comp I..... 3	1433 Struct Conc Arithmetic....3	3423 Media & Tech .....3	3213 Intro to Spec Ed .....3
1313 Intro to Public Spk..... 3	2413 Intro to Lit .....3	3132 Excep Child.....2	3423 Tch Reading 1 .....3
Gen Educ Crse..... 4		1443 Struct Conc Math .....3	4811 Practicum ..... 1
Total: ..... 16	Total: ..... 15	Total: ..... 17	Total: ..... 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Gen Educ Crse..... 3	2133 Geom Elem Tchr .....3	3433 Assess Diag & Eval.....3	3321 Multicul/Spec Prob ..... 1
3453/3653 Educ Psych ..... 3	3314 Geol Sci Elem Tchr .....4	4223 Det& Corr Spec Prob .....3	4021 Critical Issues..... 1
4613/4813 Ed Tst/Meas..... 3	4162 Perc Dev Inf & Todl.....2	4623 Inst Cont/Prac M/M.....3	4041 Classrm Mngmt..... 1
4463 Children's Lit ..... 3	4762 Tech in Spec Ed .....2	4613 Inst Cont/Prac S/P .....3	4665 Student Tchng Elem.....5
4852 Enhan Comm & Coll ..... 2	4862 Plan & Mng Tch Env.....2	4833/4823 Prin Tch El/Sec .....3	4765 Student Tchng Sec .....5
4762 Legal & Eth Prac ..... 2	Elective .....3	4812 Practicum ..... 1	
Total: ..... 16	Total: ..... 16	Total: ..... 16	Total: ..... 13

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

# **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**

**Major:** B.S.Ed. Elementary Education

### **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 ELEMENTARY EDUCATION

## GENERAL EDUCATION

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

**REQUIRED HOURS** ..... 43 - 44\*

**Composition** .....6

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

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

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR a  
higher numbered math course

\*\* MATH 1433 Structural Concepts in Arithmetic should be taken to satisfy the Mathematics component of the General Education Program.

**Computer Applications** .....2

COMSC 1022 Computers & Information Access

**Natural Sciences** .....8

**BIOL 1004 Biological Concepts**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry or  
higher numbered chemistry course

**Humanities and Fine Arts** .....6

ART 1223 Art Survey  
**LIT 2413 Introduction to Literature**  
MUSIC 1013 Introduction to Music I  
PHILO 1453 Introduction to Philosophy  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** .....6

HIST 1063 U.S. History  
POLSC 1103 American Government & Politics

**Economic & International Studies** .....6

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, and Cultural Studies** ..... 6-7

**PSYCH 1003 General Psychology**  
SOCIO 1003 Introduction to Sociology  
\_\_\_\_\_4 World Languages  
TECH 1123 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

\* Teacher Education candidates majoring in Elementary and Special Education must have:

12 hours of Social Studies  
12 hours of Mathematics  
12 hours of Language Arts  
12 hours of Science

In addition the candidates must have Foreign Language proficiency at the college level **or** 2 years of C or better of the same language in high school.

FOR INFORMATION CONTACT:

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## Elementary Education Major Code No. 700

Required Courses 43

MATH 1443 Structural Concepts in Mathematics  
MATH 1503 Algebra for Elementary Teachers  
MATH 2133 Geometry for Elementary Teachers  
MUSIC 3202 Music Methods for Elem Teachers  
SCI 3314 Geological Science for Elem Teachers  
RDNG 3423 Teaching Reading I  
RDNG 3432 Teaching Reading II  
ELEM 3513 CMM Mathematics for Elem Teachers  
ELEM 3522 CMM Social Studies for Elem Teachers  
HPE 3553 Methods and Materials in Elem HPER  
ELEM 3453 Language Arts in the Elem School  
ELEM 4222 Phonics and Penmanship  
SCI 4352 Teaching Science in Elementary School  
RDNG 4443 Diagnostic Prac in Teaching Reading  
ART 4452 CMM Elementary School Art  
LIT 4463 Children's Literature

Professional Education Requirements ..... 33

Certificate/Foundations Courses

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
EDPSY 3413 Child Psychology

### Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3453 Educational Psychology (Elem)  
ELEM 4613 Educl Tests and Measurements (Elem)  
ELEM 4833 Principles of Teaching Elementary

Professional Semester

EDUC 3321 Multicultural/Special Populations  
EDUC 4021 Critical 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 ..... 121

### REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation ..... 121  
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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework ..... 2.50

**ELEMENTARY EDUCATION (CODE 700)**  
**Suggested Course Sequence**

<b>FIRST YEAR</b>		<b>SECOND YEAR</b>	
<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>	<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>
1001* Freshman Orient* .....1	1003 Gen Psych ..... 3	1063 U. S. History ..... 3	1103 World Cult Geog ..... 3
Gen Educ Crse .....3	1103 Amer Govt & Pol ..... 3	3423 Media & Tech ..... 3	3202 Mus Meth/Elem Tchr..... 2
1033 World History .....3	3132 Excep Child ..... 2	Gen Educ Crse ..... 3	3423 Tch Reading I (1)..... 3
1113 English Comp I .....3	1213 English Comp II..... 3	2113 Found of Educ..... 3	3513 CMM Math Elem..... 3
1313 Intro to Public Spk .....3	1433 Struct Conc Arithmetic ... 3	Gen Educ Crse ..... 2	3522 CMM Soc St Elem..... 3
	2413 Intro to Lit..... 3	1443 Struct Conc Math..... 3	4222 Phonics & Penmshp ..... 2
Total: ..... 13	Total: ..... 17	Total: ..... 17	Total: ..... 16

<b>THIRD YEAR</b>		<b>FOURTH YEAR</b>	
<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>	<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>
1503 Algebra Elem Tchr .....3	2133 Geom Elem Tchrs ..... 3	3453 Educ Psych ..... 3	3321 Multicul/Spec Prob ..... 1
1004 Biological Concepts .....4	3314 Geol Sci Elem Tchr..... 4	4352 Tchng Sci Elem Sch..... 2	4021 Critical Issues ..... 1
3432 Tchng Reading II (2) .....2	4443 Diag Practices (3)..... 3	4613 Educ Tests & Meas ..... 3	4041 Classrm Mngmt ..... 1
3453 Lang Arts Elem .....3	4452 CMM Elem Sch Art .....2	4833 Prin Tch Elem ..... 3	4665 Student Tchng Elem ..... 5
3553 M&M in HPE..... 3	4463 Children's Lit ..... 3	____ Phys Sci Course ..... 4	4765 Student Tchng Elem ..... 5
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 13

1,2, and 3 designates recommended order for taking reading courses.

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

# 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, social science, and technology education. 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.A.Ed. Mathematics Education  
B.S.Ed. Natural Science Education  
General Concentration  
Biology Concentration  
Chemistry Concentration  
Physics Concentration  
B.S.Ed. Technology Education

### 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 and exhibit the 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.

#### 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. Establish learning objectives and plan for student involvement in the learning process.
2. Organize and use several instructional methods, i.e., lecture, group activity, and discovery.
3. Plan for, and use resources: texts, multimedia, microcomputers and resource personnel.
4. Organize instruction for individual differences.
5. Design a learning environment in the classroom.
6. 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.

#### **TECHNOLOGY EDUCATION**

Technology Education is a comprehensive, action-based educational program concerned with technical means, their evolution, utilization, and significance. Curricula includes an analysis of industry, its organization, personnel systems, techniques, resources, products, and

their social and cultural impact. Specific experiences include:

1. An examination of educational and instructional strategies used in the secondary schools.
2. A study of the technical sub-systems of construction, manufacturing, communications, power, energy, and transportation.
3. Safe and efficient tool skill and processes competencies.
4. Management techniques for student organizations.
5. Preparation for the intern teaching assignment.

The Mission of Technology Education is to provide students the necessary philosophical base, education, and experiences to organize and teach a contemporary program in the elementary/secondary school.

# BACHELOR OF ARTS IN EDUCATION

## ENGLISH EDUCATION

### GENERAL EDUCATION

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

**REQUIRED HOURS** .....43 - 44

**Composition**.....6

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

**Mathematics** .....3

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR a**  
higher numbered math course

**Computer Applications**.....2

**COMSC 1022 Computers & Information Access**

**Natural Sciences** .....8

**BIOL 1004 Biological Concepts**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities and Fine Arts**.....6

**ART 1223 Art Survey**  
**LIT 2413 Introduction to Literature**  
**MUSIC 1013 Introduction to Music I**  
**PHILO 1453 Introduction to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** .....6

**HIST 1063 U.S. History**  
**POLSC 1103 American Government & Politics**

**Economic & International Studies** .....6

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, and Cultural Studies** .....6-7

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Introduction to Sociology**  
**4 World Languages**  
**TECH 1123 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

### FOR INFORMATION CONTACT:

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Department of Language Arts  
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### REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 128  
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 .....2.50

### English Education Major Code No. 707

**Required Courses** ..... 33

**LIT 3033 World Mythology**  
**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 3013 Writing Theory/Practice**  
**ENGL 3023 Literary Theory/Practice**  
**ENGL 3603 English Grammar**  
**ENGL 4423 Introduction to Linguistics**

Select one World Lit option:

**LIT 4113 Early World Literature**  
**LIT 3113 Modern World Literature**

**Guided Electives (select one)** ..... 3

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

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

**ENGL 3473 Beginning Creative Writing of Fiction**  
**ENGL 3483 Beginning Creative Writing of Poetry**  
**ENGL 3553 Writing for the Workplace**  
**ENGL 4553 Technical Writing & Editing**  
**ENGL 4653 Writing for Multimedia**  
**ENGL 4663 Creative Nonfiction**

**Free Elective (any course with a LIT prefix)**..... 3

Note: LIT 4463 Children's Literature does not count for credit in the English Education major.

**World Language: a course beyond Elementary I**.....3-4

**Total Hours required** .....45-46

**Professional Education Requirements**..... 38

Certificate/Foundations Courses

**EDUC 2113 Foundations of Education**  
**SPCED 3132 Exceptional Children**  
**EDPSY 3433 Adolescent Psychology**

**Foreign Language Proficiency (Required)**

**Pre-Professional Semester**

**LIBED 3423 Media & Technology**  
**EDPSY 3653 Educational Psychology (Sec)**  
**SECED 4813 Educational Tests & Meas (Sec)**  
**SECED 4823 Principles of Teaching Secondary**  
**ENGL 4675 Teaching High School English**

**Professional Semester**

**EDUC 3321 Multicultural/Special Populations**  
**EDUC 4021 Critical 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 for degree**..... 128

## ENGLISH EDUCATION (CODE 707)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1103 American Gov..... 3	3023 Literary Theory/Prac..... 3	2113 Foundations of Educ.....3
1113 English Comp I..... 3	1213 English Comp II..... 3	4553 Issue in Amer Lit ..... 3	3013 Writing Theory/Prac.....3
1333 Intro to Public Speak..... 3	1004 Biol Concepts ..... 4	Elem For Lang I..... 4	3323 Mod Voice in Amer Lit ...3
2413 Intro to Literature..... 3	Gen Educ Crse..... 6	Gen Educ Crses ..... 6	4123 Brit Lit 1795-1950.....3
Gen Educ Crse..... 6		English Proficiency Exam**	Elem for Lang II.....4
Total: ..... 16	Total: ..... 16	Total: ..... 16	Total: .....16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1033 World History ..... 3	3033 World Myth ..... 3	3423 Media & Tech..... 3	3321 Multi/Special Pop .....1
3132 Exceptional Children..... 2	3433 Adolescent Psych..... 3	3653 Educ Psych (Sec) ..... 3	4021 Critical Issues in Educ.....1
3603 English Grammar ..... 3	4993 The Novel ..... 3	4675 Teach H.S.English ..... 5	4041 Classroom Mgmnt .....1
4423 Intro to Linguistics..... 3	Free LIT Electives ..... 3	4813 Tests & Msrmnts (Sec) ..... 3	4865 Std Teaching Sec .....5
4763 British Lit to 1800..... 3	Guided LIT Elective ..... 3	4823 Prin Teaching Sec ..... 3	4965 Std Teaching Sec .....5
Writing Elective..... 3	World Lit ..... 3		
Total: ..... 17	Total: ..... 18	Total: ..... 17	Total: .....13

\* First-time entering freshmen need to take 1001 Freshman Orientation

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.



# BACHELOR OF ARTS IN EDUCATION HISTORY EDUCATION

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences ..... 8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
**LIT 2413 Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies ..... 6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
4 World Languages  
TECH 1223 Technology and Society  
HPER 1133 Wellness Concepts & Exercise  
Applications

## History Education Major Code No. 730

Core Requirement-Social Science..... 3

**ECONO 2263 Intro to Macroeconomics**  
**OR ECONO 2363 Intro to Microeconomics**

Core Requirements-History ..... 36

HIST 4093 Historical Research and Writing  
HIST 4353 Oklahoma History  
4000 level American History (15 hours)  
3000 level European and/or World Hist (12 hours)  
4000 level American or 3000 level European **AND/OR**  
World History (3 hours)

Professional Education Requirements..... 36

Certificate/Foundations Courses

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
EDPSY 3433 Adolescent Psychology

## Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3653 Educational Psychology (Sec)  
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 Critical 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

## 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..... 2.50

## FOR INFORMATION CONTACT

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**HISTORY EDUCATION (CODE 730)**  
**Suggested Course Sequence**

<b>FIRST YEAR</b>		<b>SECOND YEAR</b>	
<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>	<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>
1001 Freshman Orient** ..... 1	1004 Biological Concepts..... 4	1003 General Psychology ..... 3	3132 Exceptional Children ..... 2
1063 US History ..... 3	1033 World History ..... 3	1103 American Govt ..... 3	Amer Hist ..... 3
1113 English Comp I ..... 3	1213 English Comp II..... 3	2113 Found in Educ ..... 3	World Hist..... 3
1143 Math Concepts ..... 3	Gen Educ Crse..... 3	2413 Intro to Literature ..... 3	Gen Educ Crse..... 3
Gen Educ Crse..... 3	1103 World Cultural Geog ..... 3	English Proficiency Exam*	3433 Adolescent Psych..... 3
1022 Comp/Info Access..... 2		Gen Educ Crse..... 3	
Total: ..... 15	Total: ..... 16	Total: ..... 15	Total: ..... 14

<b>THIRD YEAR</b>		<b>FOURTH YEAR</b>	
<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>	<b>FIRST SEMESTER</b>	<b>SECOND SEMESTER</b>
4093 Hist Rsch/Writing ..... 3	4353 History of Oklahoma ..... 3	Pre-Professional Semester	Professional Semester
Amer Hist ..... 3	Amer Hist ..... 3	4933 Teach Sec Social Sci..... 3	3321 Multi-Cultrl/Spec Pop..... 1
World Hist ..... 3	World Hist ..... 3	Amer Hist ..... 6	4021 Critical Isseus in Ed..... 1
3423 Media & Technology ..... 3	3653 Educ Psychology ..... 3	World Hist..... 3	4041 Classroom Mgmt ..... 1
4813 Educ Test/Meas (Sec). ... 3	4823 Princ of Tech Sec..... 3	Am/Wld Hist ..... 3	4865 Student Teach Sec ..... 5
		Electives.....1	4865 Student Teach Sec ..... 5
Total: ..... 15	Total: ..... 15	Total: ..... 16	Total: ..... 13

\*If applicable. See English Proficiency Program under the General Academic Information Section.

\*\*First-time entering freshmen need to take 1001 Freshman Orientation.

# BACHELOR OF ARTS IN EDUCATION

## MATHEMATICS EDUCATION

### GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences ..... 8**

**BIOL 1004 Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
**LIT 2413 Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government ..... 6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies ..... 6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

**PSYCH 1003 General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

### FOR INFORMATION CONTACT:

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### Mathematics Education Major

**Code No. 716**

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 ..... 6

3000-4000 level courses

**MATH 4933 may NOT count as MATH elective.**

Computer Application/Computer Science..... 3

(Any scientific programming language **OR**  
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

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
EDPSY 3433 Adolescent Psychology

### Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3653 Educational Psychology (Sec)  
SECED 4813 Educational Tests & Meas (Sec)  
SECED 4823 Principles of Teaching Secondary  
MATH 4933 Teaching Secondary Math

Professional Semester

EDUC 3321 Multicultural/Special Populations  
EDUC 4021 Critical 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

### 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 (including last 8) ..... 30

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

# MATHEMATICS EDUCATION (CODE 716)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient <sup>1</sup> .....1	1213 English Comp II.....3	2834 Calculus II.....4	3834 Calculus III..... 4
1113 English Comp I.....3	1834 Calculus I.....4	Required Math** .....3	3653 Linear Algebra ..... 3
1513 College Algebra .....3	Gen Educ Crses .....9	2113 Found in Education .....3	Gen Educ Crses.....9 9
1613 College Trigonometry or 1715 Col Alg/Trig* .....3-5		Gen Educ Crses.....7	
Gen Educ Crses.....5		English Proficiency Exam <sup>2</sup>	
Total: .....15-17	Total: .....16	Total:.....17	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4653 Modern Algebra.....3	2112 Exceptional Child.....2	Pre-Professional Semester	Professional Semester
Computer Prog*** .....3	3433 Adolescent Psych.....3	3423 Media & Tech .....3	3321 Multi-Cultrl/Spec Pop ..... 1
Math Elective .....3	3713 College Geometry .....3	3653 Educ Psychology.....3	4021 Critical Issues in Ed..... 1
(3000-4000 level)	Math Elective.....3	4813 Educ Tests & Meas .....3	4041 Classroom Mgmt..... 1
Gen Educ Crses.....4	(3000-4000 level)	4823 Princ of Tech Sec .....3	4865 Student Teach Sec ..... 5
	Electives .....5	4933 Teach Sec Math.....3	4865 Student Teach Sec ..... 5
Total: .....13	Total: .....16	Total:.....15	Total:..... 13

\*If a student enrolls in MATH 1715 during the first semester, then 1 hour free elective will be required.

\*\*MATH 3413 Statistical Methods I or Math 3433 Statistics I

\*\*\*Any scientific programming language OR MATH 3533 Technology and Programming in Mathematics

<sup>1</sup> First-time entering freshmen should take 1001 Freshman Orientation

<sup>2</sup> If applicable. See English Proficiency Program under the General Academic Information Section.

# BACHELOR OF SCIENCE IN EDUCATION

## NATURAL SCIENCE EDUCATION

### GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics .....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences .....8**

**\*BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy OR**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government .....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies .....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies .....6-7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

**\* Biological Concepts may be satisfied by Principles of Biology (BIOL 1054) which is a requirement for this degree.**

### FOR INFORMATION CONTACT:

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OR

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Department of Chemistry & Physics  
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### Natural Science Education Major

**Code No. 727**

**Required Courses ..... 34**

**BIOL 1054 Principles of Biology**  
**BIOL 2404 Introductory Botany**  
**BIOL 2204 Introductory Zoology**  
**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**  
**BIOL 2714 Human Anatomy and Physiology**

**Auxiliary Requirements..... 3**

**MATH 1613 College Trigonometry**  
Students, who satisfy General Education and Major math requirements by taking MATH 1715 College Algebra and Trigonometry, must take one additional hour of electives.

**Electives ..... 14-15**

### General Concentration

The general degree in Natural Science is obtained by selecting 14 hours of electives from two or more areas of Biology, Chemistry, Earth Science, or Physics.

### Biology Concentration

Required courses:

**BIOL 2022 Biological Orientation**  
**BIOL 3254 Genetics**  
**BIOL 4604 General Ecology**  
**OR BIOL 3504 Natural History**

Remaining hours are to be selected from:

**BIOL 3604 General Entomology**  
**BIOL 4653 Plant Taxonomy**  
**OR ALHLT 4355 Microbiology**

### Chemistry Concentration

An area of specialization in Chemistry can be obtained by completing at least 14 hours of chemistry electives to 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**  
**CHEM 4254 Industrial Chem. & Environmental Regulations.**  
(Students completing this specialization cannot select both CHEM 2114 and CHEM 3013/3111.)

### Physics Concentration

An area of specialization in Physics can be obtained by selecting 14 hours from the following:

**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.)

**Professional Education Requirements ..... 36**

### Certificate/Foundations Courses

**EDUC 2113 Foundations of Education**  
**SPCED 3132 Exceptional Children**  
**EDPSY 3433 Adolescent Psychology**

### Foreign Language Proficiency (Required)

**Pre-Professional Semester**

LIBED 3423 Media & Technology  
EDPSY 3653 Educational Psychology (Sec)  
SECED 4813 Educ Tests & Measurements (Sec)  
SECED 4823 Principles of Teaching Secondary  
SCI 4843 Teachers' Course in Science

**Professional Semester**

EDUC 3321 Multicultural/Special Populations  
EDUC 4021 Critical Issues in Education  
EDUC 4041 Classroom Management  
SECED 4865 Student Teaching in the Sec School  
SECED 4965 Student Teaching in the Sec School

Freshman Orientation..... 1

Total hours for degree ..... 127

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation ..... 127  
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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework ..... 2.50

## NATURAL SCIENCE EDUCATION (GENERAL) (CODE 727)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	2404 Introductory Botany ..... 4	2204 Intro Zoology ..... 4	1303 General Chem II..... 3
1063 U.S. History..... 3	1213 English Comp II..... 3	1203 General Chem I..... 3	1352 General Chem II Lab ..... 2
1113 English Comp I..... 3	1613 College Trig ..... 3	1252 General Chem I Lab ..... 2	Science elective** ..... 4
1513 College Algebra..... 3	1022 Comp Info Access ..... 2	1904 Astronomy	2113 Found of Education..... 3
1054 Principles of Biology..... 4	1103 Amer Govt Politics..... 3	or 1934 Physical Geology ..... 4	1313 Intro Public Speaking..... 3
Science elective** ..... 2		English Proficiency Exam***	Behav, Soc & Cult Studies..... 3
		1003 General Psychology ..... 3	
Total: ..... 16	Total: ..... 15	Total: ..... 16	Total: ..... 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I ..... 4	1054 Basic Physics II..... 4	3423 Media and Tech..... 3	3321 Multictrl/Spec Pop ..... 1
Science elective** ..... 4	2714 Human Anat & Phys ..... 4	3653 Educ Psych (Sec) ..... 3	4021 Critical Iss in Educ..... 1
Science elective** ..... 4	3433 Adolescent Psych ..... 3	4813 Ed Tests & Msrmnts ..... 3	4041 Classroom Mgmnt..... 1
1033 World History..... 3	Humanities & Fine Arts ..... 3	4823 Prin of Tchg Sec..... 3	4865 Student Teaching ..... 5
3132 Exceptional Children ..... 2	Econ & Internat Studies ..... 3	4843 Teachers' Crse in Sci+ ..... 3	4965 Student Teaching ..... 5
Total: ..... 17	Total: ..... 17	Total: ..... 15	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 courses).

\*\*\*If applicable. See English Proficiency Program under the General Academic Information Section.

+ Offered in fall of odd years only

## NATURAL SCIENCE EDUCATION (BIOLOGY) (CODE 727)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	1203 Gen Chem I Lect..... 3	1303 Gen Chem II Lect ..... 3
1063 U.S. History ..... 3	1613 College Trig ..... 3	1252 Gen Chem I Lab..... 2	1352 Gen Chem II Lab ..... 2
1113 English Comp I..... 3	2404 Introd Botany ..... 4	1904 Astronomy	3254 Genetics..... 4
1513 College Algebra..... 3	1022 Comp Info Access ..... 2	or 1934 Physical Geology ..... 4	2113 Found of Education ..... 3
1054 Principles of Biology ..... 4	1103 Amer Govt Politics..... 3	2204 Introd Zoology ..... 4	1313 Intro Public Speaking ..... 3
2022 Biol Orientation ..... 2		English Proficiency Exam**	Behav, Soc & Cult Studies ..... 3
		1003 General Psychology ..... 3	
Total: ..... 16	Total: ..... 15	Total: ..... 16	Total: ..... 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Biology Concentr Elective..... 4	1054 Basic Physics II..... 4	3423 Media and Tech..... 3	3321 Multictrl/Spec Pop ..... 1
1033 World History ..... 3	2714 Human Anat & Phys..... 4	3653 Educ Psych (Sec) ..... 3	4021 Critical Iss in Educ ..... 1
1044 Basics Physics I ..... 4	3433 Adolescent Psych ..... 3	4813 Educ Tests & Msrmnts..... 3	4041 Classroom Mgmnt ..... 1
Field Biology*** ..... 4	Humanities & Fine Arts ..... 3	4823 Prin of Tchg Secondary..... 3	4865 Student Teaching ..... 5
3132 Exceptional Children ..... 2	Econ & Internat Studies ..... 3	4843 Teachers' Course in Sci+ .. 3	4965 Student Teaching ..... 5
Total ..... 17	Total: ..... 17	Total: ..... 15	Total: ..... 13

\* First-time entering freshmen need to take 1001 Freshman Orientation.

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

\*\*\* Students must take either General Ecology (spring odd years) or Natural History (fall odd years)

+ Offered in fall of odd years only

## NATURAL SCIENCE EDUCATION (CHEMISTRY) (CODE 727)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	1063 U.S. History ..... 3	1003 General Psychology ..... 3
1113 English Comp I ..... 3	1303 Gen Chemistry II ..... 3	1904 Astronomy	2714 Human Anat/Phys ..... 4
1203 General Chem I ..... 3	1332 Gen Chem II Lab ..... 2	or 1934 Physical Geology ..... 4	Chemistry elective** ..... 4
1252 General Chem I Lab ..... 2	1613 College Trig ..... 3	2204 Introductory Zoology ..... 4	1022 Comp Info Access ..... 2
1513 College Algebra ..... 3	2404 Intro Botany ..... 4	Chemistry elective** ..... 4	Gen Educ Crse ..... 3
1054 Principles of Biology ..... 4	1313 Intro Public Speaking ..... 3	English Proficiency Exam***	
Total: ..... 16	Total: ..... 18	Total: ..... 15	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1033 World History ..... 3	1054 Basic Physics II ..... 4	3423 Media and Tech ..... 3	3321 Multictrl/Spec Pop ..... 1
1044 Basic Physics I ..... 4	1103 American Govt ..... 3	3653 Ed Psych (Sec) ..... 3	4021 Critical Iss in Educ ..... 1
2113 Foundations of Educ ..... 3	Chemistry elective** ..... 2	4813 Educ Tests & Msrmnts ..... 3	4041 Classroom Mngt ..... 1
3132 Exceptional Children ..... 2	3433 Adolescent Psych ..... 3	4823 Prin of Tchg Secondary ..... 3	4865 Student Teaching ..... 5
Chemistry elective** ..... 4	Gen Educ Crse ..... 3	4843 Teachers' Crse in Sci+ ..... 3	4965 Student Teaching ..... 5
		Gen Educ Crse ..... 3	
Total: ..... 16	Total: ..... 15	Total: ..... 18	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

## NATURAL SCIENCE EDUCATION (PHYSICS) (CODE 727)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient* ..... 1	1213 English Comp II ..... 3	2834 Calculus II ..... 4	General Education ..... 3
1113 English Comp I ..... 3	1834 Calculus I ..... 4	English Proficiency Exam***	1063 U.S. History ..... 3
1715 Coll Algebra & Trig** ..... 5	1303 Gen Chem II Lect ..... 3	1313 Intro Public Speaking ..... 3	2204 Introd Zoology ..... 4
1022 Comp Info Access ..... 2	1352 Gen Chem II Lab ..... 2	1054 Principles of Biology ..... 4	1103 American Govt ..... 3
1203 Gen Chem I Lect ..... 3	2145 General Physics I ..... 5	2155 General Physics II ..... 5	3403 Mod Phys Eng ..... 3
1252 Gen Chem I Lab ..... 2			3311 Mod Phys Eng Lab ..... 1
Total: ..... 16	Total: ..... 17	Total: ..... 16	Total: ..... 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Gen Educ Crse ..... 3	3132 Exceptional Child ..... 2	3423 Media and Tech ..... 3	3321 Multictrl/Spec Pop ..... 1
2404 Introd Botany ..... 4	3433 Adolescent Psych ..... 3	3653 Educ Psych (Sec) ..... 3	4021 Critical Iss in Educ ..... 1
1003 General Psychology ..... 3	Gen Educ Crses ..... 3	4813 Ed Tests & Msrmnts ..... 3	4041 Classroom Mgmnt ..... 1
1904 Astronomy	2113 Found of Educ ..... 3	4823 Prin of Tchg Second ..... 3	4865 Student Teaching ..... 5
or 1934 Physical Geology ..... 4	2714 Human Anat/Phys ..... 4	4843 Teach Crse in Sci+ ..... 3	4965 Student Teaching ..... 5
1033 World History ..... 3	Elective ..... 1		
Total: ..... 17	Total: ..... 16	Total: ..... 15	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.



# BACHELOR OF SCIENCE IN EDUCATION TECHNOLOGY EDUCATION

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications..... 2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences ..... 8**

BIOL 1004 **Biological Concepts (required)**  
*SCI 1514 Concepts of Physical Science*  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
LIT 2413 **Intro to Literature**  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies ..... 6**

HIST 1033 **World History**  
GEOG 1103 **World Cultural Geography**  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
4 World Languages  
TECH 1223 **Technology and Society**  
HPE 1133 Wellness Concepts & Exercise  
Applications

## FOR INFORMATION CONTACT

Dr. Gary Bell, Chair  
Department of Technology  
Phone: (580) 774-3162  
E-mail: [gary.bell@swosu.edu](mailto:gary.bell@swosu.edu)

## Technology Education Major Code No. 713

Required courses..... 32

TECH 1203 Engineering Drafting  
TECH 1313 Wood Materials and Processes  
TECH 2010 Seminar in Technology Education  
TECH 2513 Fabrication Processes I  
TECH 3203 Computer Aided Drafting I  
TECH 3613 Power Systems  
TECH 3873 Applied Electronics  
TECH 3902 Managing Student Organizations  
TECH 4233 Graphic Communication Systems  
TECH 4313 Construction Systems I  
TECH 4903 Manufacturing Enterprises  
TECH 4943 Organization and Administration of  
Technology Systems

Department approved electives..... 6

Professional Education Requirements..... 36

Certificate/Foundations Courses

EDUC 2113 Foundations of Education  
SPCED 3132 Exceptional Children  
EDPSY 3433 Adolescent Psychology

## Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED 3423 Media & Technology  
EDPSY 3653 Educational Psychology (Sec)  
SECED 4813 Educational Tests & Meas (Sec)  
SECED 4823 Principles of Teaching Secondary  
TECH 4983 Principles of Tchng Technology Educ

Professional Semester

EDUC 3321 Multicultural/Special Populations  
EDUC 4021 Critical 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

## 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 (including last 8) ..... 30

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

## CERTIFICATION VOCATIONAL TRADE AND INDUSTRY

Required Courses..... 18

TECH 3113 Industrial Safety  
TECH 3902 Managing Student Organizations  
TECH 4113 History/Phil of Vocational Education  
TECH 4413 Instr Procedures in Vocational Educ  
TECH 4974 Occupational Analysis/Instr Planning  
TECH 4993 Organization/Mngmt of Learning Facilities

## TECHNOLOGY EDUCATION (CODE 713)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1213 English Comp II ..... 3	2113 Found of Ed..... 3	3203 CAD I.....3
1113 English Comp I .....3	1313 Wood Mtls/Proc ..... 3	2513 Fab Proc I..... 3	3613 Power Systems.....3
1203 Eng Drafting .....3	2010 Seminar in TE	Gen Educ Crses ..... 9	Gen Educ Crses .....9
1513 College Algebra .....3	3873 Applied Elec..... 3	English Proficiency Exam**	
Gen Educ Crses.....6	Gen Educ Crses..... 6		
Total: .....16	Total:..... 15	Total: ..... 15	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3132 Except Child .....2	3433 Adol Psych..... 3	3423 Media & Tech..... 3	3321 Multi/Spec Pop .....1
3902 Man Stud Org.....2	4233 Graphic Comm..... 3	3653 Ed Psych..... 3	4021 Crit Issues Ed.....1
TE Elective .....3	TE Elective ..... 3	4813 Ed Tests & Meas ..... 3	4041 Classroom Mgmt .....1
4313 Const Systems.....3	4983 Prin Tchng TE..... 3	4823 Prin Tchng Sec ..... 3	4865 Stud Tchng Sec.....5
4943 Org/Adm TE Syst .....3	Gen Educ Crse ..... 3	4903 Mfg Enterprise..... 3	4965 Stud Tchng Sec.....5
Gen Educ Crse .....3			
Total: .....16	Total:..... 15	Total: ..... 15	Total: .....13

\*First-time entering freshmen need to take 1001 Freshman Orientation.

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

# EARLY CHILDHOOD EDUCATION (PK-3) CERTIFICATION PROGRAM

**(Program applicants holding a bachelor's degree)**

Communication Arts Core.....19

MATH	2133	Structural Concepts of Arithmetic
RDNG	3423	Teaching Reading I
RDNG	3432	Teaching Reading II
ELEM	3453	Language Arts I the Elementary School
ELEM	4222	Phonics and Penmanship
RDNG	4443	Diagnostic Practices in Tchng Reading
ELEM	4463	Children's Literature

Early Childhood Emphasis.....24

HPE	3393	Nutrition for Children
ECED	4423	Play Methods & Methods
ECED	4463	The Expressive Arts
ECED	4483	Exploring the Child's World
ECED	4533	Guidance for the Preschool Child
PSYCH	4533	Language Development
ECED	4583	Early Chldhd & Kindergarten Educ

Take one of the following (or approved Family course):

PSYCH	4423	Marriage/Family Dynamics
COUN	5363	Parenting Perspectives
COUN	5373	Theory/Tech of Family Counseling

Professional Education Requirements.....33

Certificate/Foundations Courses

EDUC	2113	Foundations of Education
SPCED	3132	Exceptional Children
EDPSY	3413	Child Psychology

**Foreign Language Proficiency (Required)**

Pre-Professional Semester

LIBED	3423	Media & Technology
EDPSY	3453	Educational Psychology (Elem)
ELEM	4613	Educ Tests & Measurements (Elem)
ELEM	4833	Principles of Teaching Elementary

Professional Semester

EDUC	3321	Multicultural/Special Populations
EDUC	4021	Critical Issues in Education
EDUC	4041	Classroom Management
ELEM	4665	Student Teaching in the Elem School
ELEM	4765	Student Teaching in the Elem School

**NOTE:** In order to meet certification requirements the following requirements must also be met:

1. Overall grade point average of at least 2.50.
2. Successful passage of the OGET, OSAT, and OPTE.

**FOR INFORMATION CONTACT:**

Certification Analyst  
SWOSU Department of Education  
Phone: (580) 774-3286

# ADDITIONAL CERTIFICATION AREAS

## SPEECH AND DRAMA (6-12) CERTIFICATION PROGRAM

(Program for applicants holding a bachelor's degree)

Required Courses..... 35

COMM	1263	Introduction to Theatre
COMM	1313	Intro to Public Speaking
COMM	2103	Introduction to Mass Communications
COMM	2123	Interpersonal Communication
COMM	2363	Acting I
COMM	2763	Stagecraft
COMM	3263	Play Directing and Production
COMM	3543	Small Group
COMM	3563	Argumentation and Debate
COMM	4063	Oral Interpretation
COMM	4463	History of Theatre I
COMM	4563	Tchng Speech in the Secondary School

Electives ..... 5

COMM	2063	Voice and Diction
COMM	2161	Intercollegiate Forensics
COMM	2171	Debate Participation
COMM	2863	Scene Design
COMM	3013	Theatrical Make-up
COMM	3023	Stage Lighting/Sound
COMM	3073	Persuasion
COMM	3171	Reader's Theatre
COMM	3761	Theatre Production
COMM	3862	Dramatic Participation
COMM	3963	Costume History & Design
COMM	4243	Media Production
COMM	4963	Acting II

OTHER APPROVED COURSEWORK

Professional Education Requirements..... 33

Certificate/Foundations Courses

EDUC	2113	Foundations of Education
SPCED	3132	Exceptional Children
EDPSY	3433	Adolescent Psychology

## Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED	3423	Media & Technology
EDPSY	3653	Educational Psychology (Sec.)
SECED	4813	Educ Tests & Measurements (Sec.)
SECED	4823	Principles of Teaching Secondary

Professional Semester

EDUC	3321	Multicultural/Special Populations
EDUC	4021	Critical Issues in Education
EDUC	4041	Classroom Management
SECED	4865	Student Tchng in the Secondary School
SECED	4965	Student Tchng in the Secondary School

**NOTE:** In order to meet certification requirements the following requirements must also be met:

1. Overall grade point average of at least 2.50.
2. Successful passage of the OGET, OSAT, and OPTE.

FOR INFORMATION CONTACT:

Certification Analyst  
SWOSU Department of Education  
Phone: (580) 774-3286



# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

### FACULTY

Vicki Hatton, Chair  
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 E-mail: [vicki.hatton@swosu.edu](mailto:vicki.hatton@swosu.edu)  
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S. Pond .....	HPE 108 .....	<a href="mailto:shelly.pond@swosu.edu">shelly.pond@swosu.edu</a> .....	(580) 774-3290
S. Reed .....	HPE 47 .....	<a href="mailto:scott.reed@swosu.edu">scott.reed@swosu.edu</a> .....	(580) 774-3701
P. Sharp .....	HPE 50 .....	<a href="mailto:paul.sharp@swosu.edu">paul.sharp@swosu.edu</a> .....	(580) 774-3703
C. Teasley .....	HPE 109 .....	<a href="mailto:charles.teasley@swosu.edu">charles.teasley@swosu.edu</a> .....	(580) 774-3263

### DEPARTMENTAL GOALS

The department of health and physical education 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, athletic coaching theory, and recreation theory. Completion of specified coursework will enable the student majoring in another area to qualify for selected endorsements in health, physical education, and athletic coaching.
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 conduct a well-rounded intramural sports participation program for the leisure, fitness, and recreation of the student.
6. To provide and assist the public and private schools with expertise and information in health and physical education.

### PROGRAMS OF STUDY

**Major:** B.S.Ed. Health and Physical Education

**Master:** M.Ed. Health and Physical Education  
 (See Graduate Catalog for more information.)

### GENERAL INFORMATION

Southwestern Oklahoma State University has one of the largest and most respected health and physical education departments in the state. The degree offered is the Bachelor of Science in Education in Health and Physical Education. Additional certificate programs are available.

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 HPE 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

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 Health and Physical Education faculty hold positions and are active in state and national organizations. The faculty are represented in state and national research efforts and have presented papers and published articles on various topics.

Graduates of the Southwestern Oklahoma State University's Health and Physical Education Department enjoy a 94% job acquisition rate. Graduates typically stay in Oklahoma but are sought after by employers both nationally and in the surrounding states.

For more information visit our web site at:

<http://www.swosu.edu/hpe/>

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

### FACULTY

Chad Kinder, Chair  
 Health and Physical Education Building, Room 115  
 Phone: (580) 774-3291  
 E-mail: [chad.kinder@swosu.edu](mailto:chad.kinder@swosu.edu)  
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R. Powell .....	HPE 60 .....	<a href="mailto:rocky.powell@swosu.edu">rocky.powell@swosu.edu</a> .....	(580) 774-3702
C. Ramirez .....	HPE 201 .....	<a href="mailto:chad.ramirez@swosu.edu">chad.ramirez@swosu.edu</a> .....	(580) 774-3710

### 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.
3. To offer specialized coursework including parks and recreation management, adventure programming, 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. Additional areas of certification include the aquatics specialist and outdoor education specialist certificates.
4. 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.
5. To provide and assist the parks and recreation profession with expertise and information.

### PROGRAMS OF STUDY

**Majors:** B.S. Parks and Recreation Management  
 B.S. Park Law Enforcement

**Minors:** Parks and Recreation Management  
 Park Law Enforcement

**Certificates:** Aquatics Specialist  
 Outdoor Education Specialist

**Masters:** M.Ed. Parks and Recreation Mgmt (NCT)  
 M.Ed. Sports Management (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 state. The Bachelor of Science in Parks and Recreation Management degree helps prepare students for careers in a variety of professional parks and recreation

settings. Upon completion of the Parks and Recreation Management degree, graduates can pursue a variety of jobs in municipal, state, federal, private, and non-profit parks and recreation organizations. A few of these agencies include:

National Park Service	YMCA / YWCA
U.S. Forest Service	Military Recreation
U.S. Fish and Wildlife Service	Organized Camps
Bureau of Indian Affairs	Boys Scouts of America
U.S. Army Corps of Engineers	Girl Scouts of America
Bureau of Land Management	Adventure Programs
Municipal Parks Agencies	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 Park 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. In addition to park law enforcement and ranger positions, Park Law Enforcement graduates are qualified to seek regular law enforcement positions in a variety of agencies including municipal police departments, sheriff's departments, the Oklahoma Highway Patrol, the U.S. Border Patrol, and the U.S. Drug Enforcement Administration.

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

## Parks and Recreation Management Major Code No. 168

### GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications.....2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences.....8**

BIOL 1004 **Biological Concepts**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government.....6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies.....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies.....6 - 7**

PSYCH 1003 *General Psychology*  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 **Wellness Concepts & Exercise Applications**

### 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 (including last 8).....30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

**Required Courses ..... 32**

PRM 2102 Foundations of Parks and Recreation  
PRM 3663 Recreation Management  
PRM 3702 Recreational Areas and Facilities Management  
HPE 4063 Legal Aspects of Phys. Ed., Recreation, and  
Athletics  
PRM 4163 Community Recreation  
PRM 4663 Outdoor Recreation  
PRM 4773 Natural Resource Recreation Management  
PRM 4997 Internship in Professional Recreation  
PRM 4996 Internship in Professional Recreation

**Areas of Specialization (8 hours) - (choose at least one)**

**Aquatics Specialization..... 8**

HPE 2212 First Aid  
PRM 3161 Lifeguarding  
PRM 3171 Lifeguard Instructor  
PRM 3152 SCUBA  
PRM 3162 SCUBA Lifesaving and Accident Mngmnt

**Fitness Specialization..... 8**

HPE 2502 Care and Prevention of Athletic Injury  
HPE 4233 Exercise Physiology  
HPE 3443 Kinesiology and Anatomy

**Outdoor Recreation Specialization..... 8**

PRM 3432 Ropes Course Facilitation  
PRM 3452 Advanced Ropes  
PRM 3122 Wilderness First Aid  
PRM 3113 Sailing, Canoeing, Hiking and Climbing

**Park Law Enforcement Specialization..... 8**

PRM 4201 The Park Ranger  
PRM 4211 Game and Fish Law  
PRM 4221 Small Craft Safety  
PRM 4231 Custody and Control  
PRM 4241 Firearm Safety  
PRM 3441 High Angle Rescue  
PRM 3122 Wilderness First Aid  
PRM 3161 Lifeguarding

**Sport and Athletic Management Specialization ..... 8**

HPE 4122 Organization & Administration of Athletics  
HPE 4222 Organization and Management of Intramural  
Sports  
HPE 4052 Sociology of Sport  
HPE 2242 Sports Officiating  
PRM 4502 Rodeo Management

**Sport and Recreation Activity Specialization ..... 8**

HPE 1932 Tech. Applied to Gymnastics, Fitness, and  
Aquatic  
HPE 1942 Techniques Applied to Individual Sports  
HPE 1952 Techniques Applied to Team Sports  
PRM 3432 Ropes Course Facilitation

**Electives to bring total to..... 120**





# BACHELOR OF SCIENCE PARK LAW ENFORCEMENT

**Park Law Enforcement Major  
Code No. 161**

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition..... 6**

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

**Mathematics ..... 3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR  
higher numbered math course

**Computer Applications..... 2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences ..... 8**

BIOL 1004 **Biological Concepts**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts..... 6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government ..... 6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies..... 6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics OR  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social, & Cultural Studies ..... 6 - 7**

PSYCH 1003 *General Psychology*  
SOCIO 1003 Intro to Sociology  
\_\_\_\_ 4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 **Wellness Concepts & Exercise  
Applications**

**Required Courses ..... 41-42**

PRM 2102 Foundations of Parks and Recreation  
PRM 3122 Wilderness First Aid  
PRM 3133 Emergency Response  
PRM 3161 Lifeguarding  
PRM 3441 High Angle Rescue  
PRM 3442 Advanced Ropes  
PRM 3663 Recreation Management  
PRM 3702 Recreational Areas and Facilities  
Management  
PRM 4201 The Park Ranger  
PRM 4211 Game and Fish Law  
PRM 4221 Small Craft Safety  
PRM 4231 Custody and Control  
PRM 4241 Firearm Safety  
HPE 4063 Legal Aspects of Physical Education,  
Recreation, and Athletics  
PRM 4663 Outdoor Recreation  
PRM 4773 Natural Resource Recreation Management  
PRM 4996 Internship in Professional Recreation (Park  
**AND** PRM 4997 Law Enforcement) (520 hours)

**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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework..... 2.00  
Minimum Grade Point Average in major..... 2.00

## PARKS AND RECREATION MANAGEMENT (168)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II ..... 3	Gen Educ Crses.....9	3663 Recreation Managmnt ... 3
1113 English Comp I ..... 3	Gen Educ Crses ..... 10	2102 Found of Parks & Rec.....2	PRM Specialization Areas..... 2
Recreation Activity.....2	Recreation Activity ..... 2	Free Elective .....4	Gen Educ Crses ..... 9
Gen Educ Crses.....9		English Proficiency Exam**	Free Electives ..... 2
Total: ..... 15	Total:..... 15	Total: ..... 16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3702 Rec Areas & Fac Mgmt.... 2	4163 Community Recreation 3	4773 Natural Res Rec Mgmt...3	4997 Intern in Prof Rec ..... 7
4673 Legal Asp of P.E., Rec ..... 3	4663 Outdoor Recreation ..... 3	PRM Specialization Areas ..... 2	4996 Intern in Prof Rec ..... 6
PRM Specialization Areas ..... 2	PRM Specialization Areas..... 2	Minor Electives .....6	
Free Elective ..... 2	Minor Electives ..... 6	Free Elective .....3	
Minor Electives ..... 6	Free Electives..... 2		
Total: ..... 15	Total:..... 16	Total: ..... 14	Total:..... 13

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

## PARK LAW ENFORCEMENT (161)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1004 Biological Concepts ..... 4	1003 General Psychology.....3	3663 Recreation Managmnt ... 3
1063 U. S. History ..... 3	1103 Am Gov't & Politics..... 3	2102 Found of Parks & Rec.....2	3702 Rec Area & Fac Mgmt.... 2
1113 English Comp I ..... 3	1213 English Comp II ..... 3	Gen Educ Crses.....10	4063 Legal Aspects HPER ..... 3
1133 Wellness Concepts..... 3	Gen Educ Crses ..... 6	English Proficiency Exam**	4231 Custody & Control..... 1
Gen Educ Crses.....5			Free Electives ..... 4
			Minor Course..... 3
Total: ..... 15	Total:..... 16	Total: ..... 15	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3122 Wilderness First Aid..... 2	3133 Emergency Response..... 3	4221 Small Craft Safety .....1	4997 Intern in Prof Rec ..... 7
4201 The Park Ranger ..... 1	3161 Lifeguarding ..... 1	4241 Firearm Safety .....1	4996 Intern in Prof Rec ..... 6
4663 Outdoor Recreation ..... 3	3442 Advanced Ropes ..... 2	4773 Natural Res Rec Mgmt...3	
Free Elective ..... 3	4221 Game & Fish Law..... 1	Minor Electives .....3	
Minor Electives ..... 6	Free Electives..... 3	Free Elective .....6	
	Minor Courses..... 6		
Total: ..... 15	Total:..... 16	Total: ..... 14	Total:..... 13

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

## DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

### CERTIFICATE PROGRAMS OF STUDY

#### AQUATICS SPECIALIST CERTIFICATE

Required Courses .....	14
HPE 2212 First Aid	
PRM 3113 Sailing, Canoeing, Hiking, and Climbing	
PRM 3152 SCUBA	
PRM 3161 Lifeguarding	
PRM 3162 SCUBA Lifesaving and Accident Management	
PRM 3211 Outdoor Education / Adventure Programming	
PRM 3663 Recreation Management	
<b>OR</b> PRM 4663 Outdoor Recreation	
Total .....	14

#### OUTDOOR EDUCATION SPECIALIST CERTIFICATE

Required Courses.....	13
PRM 3122 Wilderness First Aid	
PRM 3211 Outdoor Education / Adventure Programming	
PRM 4663 Outdoor Recreation	
Select eight hours from the following:	
PRM 3113 Sailing, Canoeing, Hiking, Climbing	
PRM 3221 Outdoor Education for Teachers	
PRM 3432 Ropes Course Facilitation	
PRM 3441 High Angle Rescue	
PRM 3452 Advanced Ropes	
PRM 4221 Small Craft Safety	
PRM 4773 Natural Resource Recreation Management	
Total .....	13

#### CONTACT:

Chad Kinder, Chair  
Health and Physical Education Building, Room 115  
Phone: (580) 774-3291  
E-mail: [chad.kinder@swosu.edu](mailto:chad.kinder@swosu.edu)

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## DEPARTMENT OF PSYCHOLOGY

### FACULTY

Gary Gilliland, Chair and Associate Dean  
Psychology Building, Room 117-7  
Phone: (580) 774-7016  
E-mail: [gary.gilliland@swosu.edu](mailto:gary.gilliland@swosu.edu)  
<http://www.swosu.edu/psych/>

M. Burgess.....	PSY 117-1 .....	<a href="mailto:melinda.burgess@swosu.edu">melinda.burgess@swosu.edu</a> .....	(580) 774-3724
S. Burgess.....	PSY 117-5 .....	<a href="mailto:stephen.burgess@swosu.edu">stephen.burgess@swosu.edu</a> .....	(580) 774-7015
J. Hunsicker.....	PSY 117-3 .....	<a href="mailto:jim.hunsicker@swosu.edu">jim.hunsicker@swosu.edu</a> .....	(580) 774-3721
P. Nail.....	PSY 117-4 .....	<a href="mailto:paul.nail@swosu.edu">paul.nail@swosu.edu</a> .....	(580) 774-3723
R. Scott.....	PSY 117-6 .....	<a href="mailto:rodney.scott@swosu.edu">rodney.scott@swosu.edu</a> .....	(580) 774-3726
M. Wolff.....	PSY 117-2 .....	<a href="mailto:michael.wolff@swosu.edu">michael.wolff@swosu.edu</a> .....	(580) 774-3720

### DEPARTMENTAL GOALS

The major objectives of the Department of Psychology include provision for the following:

1. Comprehensive major in psychology.
2. Minor in psychology.
3. Minor in Alcohol and Chemical Dependency Counseling.
4. Minor in Industrial/Organizational Psychology.
5. Minor in Child Developmental Psychology.
6. Educational psychology foundations for professional education.
7. Psychology foundations for applied and basic sciences.

### PROGRAMS OF STUDY

**Major:** B.S. Psychology

**Minor:** Psychology  
Alcohol & Chem. Dependency Counseling  
Industrial/Organizational Psychology  
Child Development Psychology

### GENERAL INFORMATION

Psychology is the scientific study of human and animal behavior and mental processes.

Psychologists study and perform research involving such basic processes as perception, motivation, learning, memory, cognition and physiology. They also study the development and adjustment of the individual to the environment and social situation. An integral part of the science involves the study of the research methodology involved in the analysis of behavior. Psychology is a

discipline which has its roots in philosophy and is highly related to the disciplines of sociology, anthropology, physiology, and biology.

The department is located in the Psychology Building. Special facilities and resources include a computer laboratory, materials and library, biofeedback and physiological equipment, as well as apparatus for perception and memory research.

Faculty research interests include psychological effects of stress, coping, and depression; cognition and problem solving; memory processes; personality theory and the experimental study of personality; social influence, attitude theory and measurement, human learning, women's issues, home environments, and child and adolescent educational performance.

There is a wide variety of career opportunities available to the student interested in a profession in psychology. A bachelor's degree is usually a prerequisite to specializing as a professional in many fields of psychology. However, the variety of training experiences required for a bachelor's degree in psychology qualifies graduates for many profitable and satisfying jobs in business, government, and social agencies. Psychology can also provide an excellent minor field for the student interested in law, medicine, business, biological sciences, social sciences, and education.

For more information visit our web site at  
<http://www.swosu.edu/psych/>

# BACHELOR OF SCIENCE PSYCHOLOGY

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
higher numbered math course

**Computer Applications**..... **2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences**..... **8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts**..... **6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government** ..... **6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**..... **6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies** ..... **6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
Applications

## Psychology Major

**Code No. 160**

Required core courses..... 19

**PSYCH 2413 Advanced General Psychology**  
**PSYCH 2423 Social Psychology**  
**PSYCH 2433 Psychological Statistics**  
**PSYCH 3224 Research Methods**  
**PSYCH 3233 Learning & Cognition**  
**PSYCH 4333 Physiological Psychology**

Electives Psychology 17

Select from the following:

**PSYCH 3201-4 Contemporary Problems in Psychology**  
**PSYCH 3213 Developmental Psychology**  
**PSYCH 3243 Cross-Cultural Psychology**  
**PSYCH 3253 Psychological Tests**  
**PSYCH 3323 Abnormal Psychology**  
**PSYCH 3333 Behavior Management**  
**PSYCH 3363 Psychology of Personality**  
**PSYCH 3503 Industrial and Organizational Psychology**  
**PSYCH 4011-4 Seminar in Psychology**  
**PSYCH 4113 Issues in Chemical Dependency**  
**PSYCH 4123 Theories and Principles of Psychotherapy**  
**PSYCH 4203 Psychology of Women**  
**PSYCH 4223 Media & Mental Illness**  
**PSYCH 4313 Introduction to Clinical Psychology**  
**PSYCH 4371-4 Psychological Research**  
**PSYCH 4391-4 Advanced Seminar in Psychology**  
**PSYCH 4533 Language Development**

Electives to bring total to.....120

Psychology minor listed in Minor Program section.

Other Psychology Minors listed in Minor Program section:

Alcohol and Chemical Dependency Counseling  
Child Developmental Psychology  
Industrial/Organizational Psychology

## 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 (including last 8)..... 30

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

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

**PSYCHOLOGY (CODE 160)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FOURTH SEMESTER
1001 Freshman Orient* ..... 1	1103 American Govt..... 3	Level II..... 3	Gen Educ Crse..... 6
1003 General Psych ..... 3	1213 English Comp II..... 3	Gen Educ Crse..... 3	Level II or III ..... 6
1113 English Comp I..... 3	2413 Adv Gen Psych..... 3	1033 World History..... 3	Minor..... 3
1063 US History ..... 3	Gen Educ Crse ..... 6	Gen Educ Crse..... 6	
Gen Educ Crse..... 5		English Proficiency Exam**	
Total: ..... 15	Total:..... 15	Total: ..... 15	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIFTH SEMESTER	SIXTH SEMESTER	SEVENTH SEMESTER	EIGHTH SEMESTER
Level II, III or IV ..... 6	Level III or IV ..... 6	Level IV or V ..... 6	Level IV or V ..... 6
Minor..... 6	Minor ..... 6	Minor..... 3	Minor..... 3
Free Elective..... 3	Free Elective ..... 3	Free Elective..... 6	Free Elective..... 6
Total: ..... 15	Total:..... 15	Total: ..... 15	Total: ..... 15

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

PSYCHOLOGY (PSYCH) IDEAL PROGRESSION OF COURSES	
<b>Level I</b>	1003 General Psychology
<b>Level II</b>	2413 Advanced Gen Psychology 2423 Social Psychology 2433 Psychological Statistics 3213 Developmental Psychology
<b>Level III</b>	3201-4 Contemporary Problems 3224 Research Methods 3233 Learning & Cognition 3243 Cross-Cultural Psychology 3253 Psychological Tests 3323 Abnormal Psychology 3332 Behavior Management 3363 Psychology of Personality 3503 Industrial/Organizational Psychology
<b>Level IV</b>	4113 Issues in Chemical Dependency 4123 Theories & Principles of Psychotherapy 4333 Physiological Psychology 4533 Language Development

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## SOCIAL WORK PROGRAM

### FACULTY

Debbi McFarlin, Program Director  
Education Building, Room 214B  
Phone: (580) 774-7087  
E-mail: [debbi.mcfarlin@swosu.edu](mailto:debbi.mcfarlin@swosu.edu)  
<http://www.swosu.edu/socialwork/>

TBA ..... EDU 214F ..... (580) 774-3154

### PROGRAM GOALS

The Social Work Program seeks to:

- Prepare competent and effective social work professionals for generalist practice in direct services among a variety of settings, population groups, and problem areas.
- Address the causes and consequences of inequality and injustice and build skills necessary for interventions with at-risk and vulnerable populations.
- To encourage awareness of the complex issues and tasks involved in direct and indirect practice, and the global nature of social, political, economic, environmental, and spiritual systems.
- Promote development of analytical and critical thinking skills

### PROGRAMS OF STUDY

**Major:** B.S.W. Social Work

**Minor:** Social Work

### BSW majors are advised by

D. McFarlin  
TBA

### GENERAL INFORMATION

The Social Work Program is accredited by the Council on Social Work Education. (<http://cswe.org/>). CSWE is recognized by the Council for Higher Education Accreditation as the sole accrediting agency for social work education in the United States.

Social Work is a profession concerned with relationships between people and their environments. Social work is an art, a science, and a profession, helping people solve personal, group, family, and community problems. It is a helping profession which provides vision and direction for addressing social problems, resolving interpersonal conflicts, confronting social issues, and meeting human needs. Social workers are committed to the enhancement of human well-being and to the alleviation of poverty and oppression among populations at-risk.

The undergraduate Social Work Program offers a specialized degree, Bachelor of Social Work (BSW). The program is both academically and professionally rigorous. BSW degree graduates are prepared for immediate entry into direct human service professional positions. The BSW degree is recognized as the entry-level professional degree for generalist social work practice in public and private social agencies. BSW graduates have knowledge anchored by a strong liberal arts foundation plus skills and a value base. Focusing on the person in the environment uniquely prepares BSW graduates to work effectively with individuals, families, small groups, communities and organizations. BSW graduates are employed in diverse work settings such as mental health, juvenile services, child welfare, criminal justice, hospitals, public policy and community development.

BSW students refine professional skills and integrate classroom course content with agency practicum experience. Each student is individually matched to the agency setting according to personal career goals. Often students are hired by the practicum agency following graduation. Regional and state social service employers are in close contact with SWOSU's BSW faculty and students

The Child Welfare Professional Enhancement Program, in partnership with the Oklahoma Department of Human Services, provides educational stipends for selected social work students planning a career working with Oklahoma's children and families to promote safety, permanency and well-being. Participants, as BSW graduates, enter DHS employment as Child Welfare Specialists.

BSW students enjoy learning, socializing, and leadership opportunities in the student-led Social Work Association. Membership is a valuable resource for peer support, annual service projects, and networking.

The Social Work Program sponsors the International Issues Forum, featuring outside specialists with national and international reputations.

For more information visit our web site  
<http://www.swosu.edu/socialwork/>



# BACHELOR OF SOCIAL WORK

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 to 44**

**Composition .....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences .....8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts.....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government .....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies .....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies .....6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Applications**

## Social Work Major Code No. 173

Required courses ..... 39

**SOCWK 2503 Introduction to Social Work**  
**SOCWK 3263 Human Behavior & Social Envrnmt I**  
**SOCWK 3273 Human Behavior & Social Envrnmt II**  
**SOCWK 3503 Social Welfare Policy and Services**  
**SOCWK 3863 Research for Social Work**  
**SOCWK 4603 Micro Systems Practice**  
**SOCWK 4613 Small Group Practice**  
**SOCWK 4623 Macro Systems Practice**  
**SOCWK 4836 Field Practicum/Seminar I**  
**SOCWK 4846 Field Practicum/Seminar II**  
**PSYCH 2433 Psychological Stats**  
**OR 3853 Statistics for Social Science**

Upper Level electives in Social Work ..... 6

Social Work Exit Survey required during final semester of coursework.

Electives to bring total to ..... 120

For the minor program, refer to the Social Work  
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 ..... 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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework ..... 2.50  
Minimum Grade Point Average in major ..... 2.50



## SOCIAL WORK

### ACCREDITATION

The Social Work Program is nationally accredited by the Council on Social Work Education (CSWE) – [www.cswe.org](http://www.cswe.org). CSWE is recognized by the Council for Higher Education Accreditation as the sole accrediting agency for social work education in the United States.

### ADMISSION TO THE SOCIAL WORK PROGRAM

The primary purpose of the Social Work Program is to prepare students for generalist social work practice as entry-level professionals in the full range of social service settings. The professional curriculum for social work education is based on a solid liberal arts foundation. A student must apply for admission to the Social Work Program, ideally during the fall semester, junior year. Admission forms may be obtained from the Social Work office.. A student is permitted to take Social Work professional practice and practicum courses only after being admitted to the program. Admission to the Social Work Program is by approval of the Admission and Retention Committee. Life or work experience will not be considered for academic credit. A student, to be approved, must meet the following requirements:

1. Complete appropriate admissions forms (including admission statement) and submit them to the Social Work office. Applicants must include an up-to-date transcript.
2. Provide evidence of adequate reading, writing, and verbal communication skills as demonstrated by appropriate coursework.
3. Successful completion of at least 45 semester hours.
4. Complete the following General Education courses: ENGL 1113, ENGL 1213, COMM 1312.
5. Complete: MATH 1143 or MATH 1513, HIST 1063, BIOL 1004.
6. Complete: SOCWK 2503 Introduction to Social Work with a minimum grade of C.
7. Evidence of personal traits that suggest potential for working professionally and effectively in the social services environment.
8. Three letters of recommendation.
9. A minimum cumulative grade point average of 2.50 is required for consideration for admission.
10. Successful interview with the Social Work Program Admission and Retention Committee. The Admission and Retention Committee interview will be scheduled only after all of the above requirements have been met.

### PROGRESSION AND REQUIREMENTS

In order to continue in the Social Work Program, the student must maintain standards equal to that which permitted admission. Students are monitored on a semester basis from the point of admission according to previously stated criteria. The student must:

1. Maintain a minimum GPA of 2.50 in all social work courses.
2. Obtain professional insurance prior to enrolling in practicum coursework (low-cost student group coverage is available).
3. Submit verification of recent (within one year) TB test before beginning practicum fieldwork.
4. Achieve no less than a B in each practicum course.
5. Complete the Senior Exit Survey during final semester of coursework.

## SOCIAL WORK (CODE 173)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1 Gen Educ Crses..... 12 Free Elective ..... 3  Total: ..... 16	Gen Educ Crses ..... 12 Free Elective..... 4  Total..... 16	Gen Educ Crses..... 12 Minor Courses..... 4 English Proficiency Exam**  Total: ..... 16	Gen Educ Crses ..... 13 2503 Intro to Social Work ..... 3  Total: ..... 16
THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3263 Humn Beh/Soc Env I ..... 3 3853 Stat for Soc Sci or 2433 Psychological Stat ... 3 Social Work Elective..... 3 Minor Courses ..... 6 *** Total: ..... 15	3273 Human Beh/Soc Env II .3 3503 Social Welfare Policy ..... 3 3863 Research for Soc Work... 3 Social Work Elective ..... 3 Minor Courses ..... 3  Total: ..... 15	4603 Micro Systems Prac..... 3 4613 Small Group Prac..... 3 Social Work Elective..... 3 Minor Courses..... 6  Total: ..... 15	4836 Field Prac./Sem. I..... 6 4846 Field Prac./Sem. II ..... 6 4623 Macro Systems Practice . 3 Senior Exit Survey  Total: ..... 15

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

\*\*\* Apply for Admission to Social Work Program

Please consult SWOSU Catalog and Social Work Program manual for details.

**Degrees Offered in the  
COLLEGE OF PROFESSIONAL AND  
GRADUATE STUDIES**

**SCHOOL OF BUSINESS**

**Dr. Ken Rose, Dean  
Dr. Larry McKee, Associate Dean**

**SCHOOL OF BUSINESS**

**BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)**

Accounting  
Finance  
General Business  
Management  
Marketing

**MASTER OF BUSINESS ADMINISTRATION (M.B.A.)**

Accounting  
General

# SCHOOL OF BUSINESS

## FACULTY

Larry McKee, Associate Dean  
School of Business  
General Thomas P. Stafford Center, Room 335  
Phone: (580) 774-3282  
Email: [larry.mckee@swosu.edu](mailto:larry.mckee@swosu.edu)  
<http://www.swosu.edu/business/>

M. Ashenfelter.....	STF 301.....	<a href="mailto:melody.ashenfelter@swosu.edu">melody.ashenfelter@swosu.edu</a> .....	(580) 774-3747
N. Buddy Penner.....	STF 302.....	<a href="mailto:nancy.penner@swosu.edu">nancy.penner@swosu.edu</a> .....	(580) 774-3746
L. Crall.....	STF 345.....	<a href="mailto:les.crall@swosu.edu">les.crall@swosu.edu</a> .....	(580) 774-3751
J. Dunn.....	STF 350.....	<a href="mailto:jerry.dunn@swosu.edu">jerry.dunn@swosu.edu</a> .....	(580) 774-3048
V. Falconer.....	STF 305.....	<a href="mailto:victoria.falconer@swosu.edu">victoria.falconer@swosu.edu</a> .....	(580) 774-3749
E. Ferrell.....	STF 347.....	<a href="mailto:elizabeth.ferrell@swosu.edu">elizabeth.ferrell@swosu.edu</a> .....	(580) 774-3040
M. Gerber.....	STF 348.....	<a href="mailto:midge.gerber@swosu.edu">midge.gerber@swosu.edu</a> .....	(580) 774-3043
D. Hamburger.....	STF 349.....	<a href="mailto:denise.hamburger@swosu.edu">denise.hamburger@swosu.edu</a> .....	(580) 774-3041
L. Kauer.....	STF 352.....	<a href="mailto:les.kauer@swosu.edu">les.kauer@swosu.edu</a> .....	(580) 774-3042
J. Long.....	STF 308.....	<a href="mailto:jim.long@swosu.edu">jim.long@swosu.edu</a> .....	(580) 774-3052
J. May.....	STF 310.....	<a href="mailto:john.may@swosu.edu">john.may@swosu.edu</a> .....	(580) 774-3081
R. May.....	STF 320.....	<a href="mailto:ralph.may@swosu.edu">ralph.may@swosu.edu</a> .....	(580) 774-3117
H. Nowka.....	STF 303.....	<a href="mailto:harry.nowka@swosu.edu">harry.nowka@swosu.edu</a> .....	(580) 774-3754
E. Simpson.....	STF 351.....	<a href="mailto:eithel.simpson@swosu.edu">eithel.simpson@swosu.edu</a> .....	(580) 774-3049
M. Tippin.....	STF 307.....	<a href="mailto:mark.tippin@swosu.edu">mark.tippin@swosu.edu</a> .....	(580) 774-3706
M. White.....	STF 354.....	<a href="mailto:max.white@swosu.edu">max.white@swosu.edu</a> .....	(580) 774-3051
R. Winslow.....	STF 304.....	<a href="mailto:robert.winslow@swosu.edu">robert.winslow@swosu.edu</a> .....	(580) 774-3062

The School of Business 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 School of Business 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 a number of active business-related clubs on campus.

The School'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, Finance, General Business, Management, and Marketing. For post-graduate study a Master of Business Administration (M.B.A.) degree with emphases in Accounting and General is offered.

The Association of Collegiate Business Schools and Programs accredit the School of Business for both its undergraduate and graduate programs.

### Master of Business Administration

The School of Business offers a 33 hour Master of Business Administration (M.B.A) program, with emphases in Accounting and General. The Accounting emphasis is designed to meet the educational requirements to sit for the CPA exam in Oklahoma. Students with an undergraduate degree in Business and others who can meet requirements of a specified list of Business courses (24 credit hours) can complete the program in 1 or 2 calendar years.

### Teaching Certificate in Business

Those students desiring to obtain a secondary teaching certificate in Business should complete the following:

- (1) a B.B.A. degree in the School of Business selecting any one of the five majors, and
- (2) complete all requirements of the School of Education for obtaining a secondary teaching certificate.

### PROGRAMS OF STUDY

<b>Majors:</b>	B.B.A. Accounting B.B.A. General Business B.B.A. Finance B.B.A. Management B.B.A. Marketing
<b>Minors:</b>	Accounting General Business Finance Management Marketing
<b>Masters:</b>	M.B.A. Accounting M.B.A. General (See Graduate Catalog for more information.)

## BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)

Professional Business Core ..... 36

**(Required of all business majors)**

ACCTG	2213	Principles of Accounting I
ACCTG	2313	Principles of Accounting II
*ECONO	2263	Intro to Macroeconomics OR
*ECONO	2363	Intro to Microeconomics
ECONO	2463	Business Statistics
MIFOS	3113	Introduction to MIS
GEBUS	3123	Legal Environment of Business
MRKTG	3143	Principles of Marketing
MNGMT	3233	Management
GEBUS	3423	Business Communications
FINAN	3343	Business Finance
GEBUS	3823	Quantitative Business Methods
MNGMT	4923	Strategic Management and Policy

\*One must be taken in the General Education; the other must be taken in the Professional Business Core.

Related Requirements Outside the School of Business ..... 11

**(May be completed as part of General Education)**

MATH	1513	College Algebra <b>OR</b> Higher numbered math course
COMM	1313	Intro to Public Speaking
PSYCH	1003	General Psychology
COMSC	1022	Computers & Information Access

General Education requirements not satisfied above.....32-33

Individual major requirements and free electives..... 40

Total required for B.B.A. .... 120

# BACHELOR OF BUSINESS ADMINISTRATION ACCOUNTING

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications**..... **2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences**..... **8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts**..... **6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government** ..... **6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies**..... **6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 **Intro to Macroeconomics OR**  
ECONO 2363 **Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies** ..... **6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise Applications

## Accounting Major

**Code No. 202**

Professional Business Core ..... 36

ACCTG 2213 Principles of Accounting I  
ACCTG 2313 Principles of Accounting II  
\*ECONO 2263 Intro to Macroeconomics OR  
\*ECONO 2363 Intro to Microeconomics  
ECONO 2463 Business Statistics  
MIFOS 3113 Intro to MIS  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
MNGMT 3233 Management  
GEBUS 3423 Business Communications  
FINAN 3343 Business Finance  
GEBUS 3823 Quantitative Business Methods  
MNGMT 4923 Strategic Management and Policy

*\*One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Business course GEBUS 3223 Commercial Law .....3

Required Accounting Courses..... 21

ACCTG 3313 Intermediate Accounting I  
ACCTG 3323 Intermediate Accounting II  
ACCTG 3333 Intermediate Accounting III  
ACCTG 3213 Accounting Information Systems  
ACCTG 3523 Income Tax Accounting I  
ACCTG 3713 Cost Accounting  
ACCTG 4213 Auditing I

Accounting Electives ..... 6  
3000-4000 Level Accounting with advisor approval

Free Electives..... 10-11

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 (including last 8) ..... 30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

*\*\*Includes Microeconomics and Macroeconomics*

# ACCOUNTING MAJOR (Code 202)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	Gen Educ Crse..... 3	2263 Intro/Macroecon.....3	2313 Prin of Acctg II .....3
1003 General Psych ..... 3	1213 English Comp II ..... 3	1022 Comp/Info Acc.....2	2363 Intro/Microecon .....3
1113 English Comp I..... 3	1103 Amer Govt..... 3	Gen Educ Crse .....3	2463 Bus Statistics.....3
1513 College Algebra ..... 3	1313 Intro/Pub. Speak ..... 3	2213 Prin Acctg I.....3	3113 Intro to MIS .....3
1063 U.S. History ..... 3	1004 Biological Conc..... 4	Free Electives.....3	Gen Educ Crse .....4
Gen Educ Crse..... 3		English Proficiency Exam**	
Total: ..... 16	Total: ..... 16	Total: ..... 14	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Marketing ..... 3	3123 Legal Envir Bus..... 3	3233 Management.....3	3323 Commercial Law.....3
3213 Acctg Info Sys ..... 3	3323 Intermed Acctg II ..... 3	3333 Intermed Acctg III.....3	Acctg Electives .....3
3313 Intermed Acctg I..... 3	3713 Cost Acctg ..... 3	Acctg Electives .....3	Free Electives.....3
3413 Bus Com ..... 3	3823 Quant Methods ..... 3	3343 Bus Finance.....3	4923 Strat Mngmt & Pol.....3
4313 IncomeTax Acctg I..... 3	Free Electives ..... 3	Free Electives.....1	4213 Auditing I.....3
Total: ..... 15	Total: ..... 15	Total: ..... 13	Total: ..... 15

\*First-time entering freshmen need to take 1001 Freshman Orientation

\*\*If applicable. See English Proficiency Program under the General Academic Information Section.



# BACHELOR OF BUSINESS ADMINISTRATION FINANCE

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

## Finance Major

Code No. 206

**TOTAL HOURS** ..... **43 - 44**

**Composition**..... **6**

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

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

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications**..... **2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences**..... **8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts**..... **6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government**..... **6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**..... **6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies**..... **6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise Applications**

Professional Business Core ..... 36

ACCTG 2213 Principles of Accounting I  
ACCTG 2313 Principles of Accounting II  
\*ECONO 2263 Intro to Macroeconomics OR  
\*ECONO 2363 Intro to Microeconomics  
ECONO 2463 Business Statistics  
MIFOS 3113 Intro to MIS  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
MNGMT 3233 Management  
GEBUS 3423 Business Communications  
FINAN 3343 Business Finance  
GEBUS 3823 Quantitative Business Methods  
MNGMT 4923 Strategic Management and Policy

*\*One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Courses Required ..... 15

FINAN 3663 Investments  
FINAN 3213 Risk Management  
FINAN 4063 Financial Institutions & Markets  
FINAN 4263 Financial Management  
ACCTG 4693 Globalization of Acctg, Finance, & Invest

Electives..... 12

3000-4000 Level Accounting or Finance (9 hours)  
3000-4000 Level School of Business or advisor approved  
from Computer Science or Mathematics (3 hours)

Free Electives..... 13-14

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 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

*\*\*Includes Microeconomics and Macroeconomics*

# BACHELOR OF BUSINESS ADMINISTRATION GENERAL BUSINESS

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition .....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences .....8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government .....6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies .....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 **Intro to Macroeconomics OR**  
ECONO 2363 **Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies .....6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise Applications

## General Business Major Code No. 217

Professional Business Core .....36

ACCTG 2213 Principles of Accounting I  
ACCTG 2313 Principles of Accounting II  
\*ECONO 2263 Intro to Macroeconomics OR  
\*ECONO 2363 Intro to Microeconomics  
ECONO 2463 Business Statistics  
MIFOS 3113 Intro To MIS  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
MNGMT 3233 Management  
GEBUS 3423 Business Communications  
FINAN 3343 Business Finance  
GEBUS 3823 Quantitative Business Methods  
MNGMT 4923 Strategic Management and Policy

*\*One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Courses .....18

One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, Management Information Systems, and Marketing

Business Electives .....6

3000-4000 Level School of Business Courses

Free Electives ..... 16-17

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 (including last 8).....30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

\*\*Includes Microeconomics and Macroeconomics

**FINANCE MAJOR (Code 206)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1004 Biological Conc.....4	1313 Intro/Pub Speak..... 3	2313 Prin of Acctg II..... 3
1003 General Psych..... 3	1022 Comp/Info Acc.....2	2213 Prin of Acctg I ..... 3	2363 Intro/Microecon..... 3
1063 U.S. History..... 3	1103 Amer Govt .....3	2263 Intro/Macroecon..... 3	2463 Bus Statistics ..... 3
1113 English Comp I..... 3	1213 English Comp II.....3	Free Electives ..... 3	Gen Educ Crse..... 7
1513 College Algebra..... 3	Gen Educ Crse.....3	Gen Educ Crse ..... 3	
Free Elective ..... 1		English Proficiency Exam**	
Total: ..... 14	Total:.....15	Total: ..... 15	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Marketing ..... 3	3823 Quant Bus Meth .....3	4643 Global of Acctg.Finan	4263 Financial Mngmt..... 3
3423 Bus Comm..... 3	4063 Fin Inst & Mrkts.....3	and Investments ..... 3	Acctg OR Finance Elective .. 3
3343 Business Finance ..... 3	3123 Legal Envrn.....3	Bus. C.S. OR Math Elective . 3	Free Electives ..... 6
3113 Intro to MIS ..... 3	3233 Management.....3	Acctg OR Fin Elec..... 6	4923 Strat Mngmt & Pol ..... 3
Free Electives ..... 3	3663 Investments .....3	3213 Risk Management ..... 3	
Total: ..... 15	Total:.....15	Total: ..... 15	Total: ..... 15

\*First-time entering freshmen need to take 1001 Freshman Orientation

\*\*If applicable. See English Proficiency Program under the General Academic Information Section.

**GENERAL BUSINESS MAJOR (Code 217)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1004 Biological Conc.....4	1103 Amer Govt .....3	2313 Prin of Acctg II.....3
1003 General Psych..... 3	1213 English Comp II.....3	2213 Prin of Acctg I .....3	2363 Intro/Microecon.....3
1022 Comp/Info Acc..... 2	1313 Intro/Pub Speak..... 3	2263 Intro/Macroecon.....3	2463 Bus Statistics .....3
1063 U.S. History..... 3	Gen Educ Crse ..... 6	Gen Educ Crse .....7	Free Electives .....4
1113 English Comp I..... 3		English Proficiency Exam**	
1513 College Algebra..... 3			
Total: ..... 15	Total:.....16	Total: .....16	Total: .....13

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3113 Intro. to MIS ..... 3	3343 Bus Finance..... 3	Elective in Major <sup>1</sup> .....3	Elective in Major <sup>1</sup> .....6
3123 Leg Envrn of Bus ..... 3	3823 Quant Methods ..... 3	Business Elective <sup>2</sup> .....3	Business Elect <sup>2</sup> .....3
3143 Prin of Marketing ..... 3	Elective in Major <sup>1</sup> ..... 9	Free Electives .....9	Free Electives .....3
3233 Management ..... 3			4923 Strat Mgmnt & Pol .....3
3423 Bus Comm..... 3			
Total: ..... 15	Total:.....15	Total: .....15	Total: .....15

\*First-time entering freshmen need to take 1001 Freshman Orientation

\*\*If applicable. See English Proficiency Program under the General Academic Information Section.

<sup>1</sup> One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, and Marketing.

<sup>2</sup> 3000-4000 Level School of Business courses.

# BACHELOR OF BUSINESS ADMINISTRATION MANAGEMENT

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**TOTAL HOURS.....43 - 44**

**Composition .....6**

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

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 **College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

COMSC 1022 **Computer & Information Access**

**Natural Sciences .....8**

BIOL 1004 **Biological Concepts (required)**  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
**higher numbered chemistry course**

**Humanities & Fine Arts.....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 **Intro to Public Speaking**

**U.S. History & Government .....6**

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies .....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 **Intro to Macroeconomics OR**  
ECONO 2363 **Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies .....6 - 7**

PSYCH 1003 **General Psychology**  
SOCIO 1003 Intro to Sociology  
\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise Applications

## Management Major Code No. 213

Professional Business Core .....36

ACCTG 2213 Principles of Accounting I  
ACCTG 2313 Principles of Accounting II  
\*ECONO 2263 Intro to Macroeconomics OR  
\*ECONO 2363 Intro to Microeconomics  
ECONO 2463 Business Statistics  
MIFOS 3113 Intro to MIS  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
MNGMT 3233 Management  
GEBUS 3423 Business Communications  
FINAN 3343 Business Finance  
GEBUS 3823 Quantitative Business Methods  
MNGMT 4923 Strategic Management and Policy

*\* One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Management Courses .....12

MNGMT 3333 Human Resource Mngmt  
MNGMT 3433 Administrative Theory  
MNGMT 3533 Organizational Behavior  
MNGMT 4133 Production/Operation Management

Business Electives .....9

3000-4000 Level Management (six hours)  
3000-4000 Level School of Business with advisor approval  
(three hours)

Free Electives ..... 19-20

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 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

*\*\*Includes Microeconomics and Macroeconomics*

**MANAGEMENT MAJOR (Code 213)**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1004 Biological Con ..... 4	1103 Amer Govt ..... 3	2313 Prin of Acctg II ..... 3
1003 General Psych ..... 3	1213 English Comp II ..... 3	2213 Prin of Acctg I ..... 3	2363 Intro/Microecon ..... 3
1022 Comp/Info Acc ..... 2	1313 Intro/Pub Speak ..... 3	2263 Intro/Macroecon ..... 3	2463 Bus Statistics ..... 3
1063 U.S. History ..... 3	Gen Educ Crse ..... 6	Gen Educ Crse ..... 7	Free Electives ..... 4
1113 English Comp I ..... 3		English Proficiency Exam**	
1513 College Algebra ..... 3			
Total: ..... 15	Total: ..... 16	Total: ..... 16	Total: ..... 13

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3113 Intro. to MIS ..... 3	3333 HR Mngmt ..... 3	3433 Admin Theory ..... 3	4000 Mngmt Elect ..... 3
3123 Leg Envrn of Bus ..... 3	3343 Bus Finance ..... 3	4133 Prod/Oper Mngmt ..... 3	4923 Strat Mngmt & Pol ..... 3
3143 Prin of Marketing ..... 3	3533 Organ Behavior ..... 3	Business Elective <sup>2</sup> ..... 3	Mngmt Electives ..... 3
3233 Management ..... 3	3823 Quant Methods ..... 3	Free Electives ..... 6	Free Electives ..... 6
3423 Bus Comm ..... 3	Free Electives <sup>1</sup> ..... 3		
Total: ..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 15

\*First-time entering freshmen need to take 1001 Freshman Orientation

\*\*If applicable. See English Proficiency Program under the General Academic Information Section.

<sup>1</sup> Recommended business elective for this major.

<sup>2</sup> 3000-4000 Level School of Business with advisor approval.

# BACHELOR OF BUSINESS ADMINISTRATION MARKETING

## GENERAL EDUCATION

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

**TOTAL HOURS.....43 - 44**

**Composition.....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications.....2**

**COMSC 1022 Computer & Information Access**

**Natural Sciences.....8**

**BIOL 1004 Biological Concepts (required)**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts.....6**

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

**U.S. History & Government.....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies.....6**

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies.....6 - 7**

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Intro to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise Applications**

## Marketing Major Code No. 214

Professional Business Core .....36

ACCTG 2213 Principles of Accounting I  
ACCTG 2313 Principles of Accounting II  
\*ECONO 2263 Intro to Macroeconomics OR  
\*ECONO 2363 Intro to Microeconomics  
ECONO 2463 Business Statistics  
MIFOS 3113 Intro to MIS  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
MNGMT 3233 Management  
GEBUS 3423 Business Communications  
FINAN 3343 Business Finance  
GEBUS 3823 Quantitative Business Methods  
MNGMT 4923 Strategic Management and Policy

*\*One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Marketing Courses.....12

MRKTG 3243 Promotional Strategy  
MRKTG 3443 Marketing/Consumer Behavior  
MRKTG 4143 Marketing Management  
MRKTG 4243 Marketing Research

Business Electives.....9

3000-4000 Level Marketing (six hours)  
3000-4000 Level School of Business with advisor approval  
(three hours)

Free Electives..... 19-20

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 (including last 8).....30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

*\*\*Includes Microeconomics and Macroeconomics*

# MARKETING MAJOR (Code 214)

## Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1004 Biological Conc.....4	1103 Amer Govt ..... 3	2313 Prin of Acctg II ..... 3
1003 General Psych..... 3	1213 English Comp II .....3	2213 Prin of Acctg I ..... 3	2363 Intro/Microecon ..... 3
1022 Comp/Info Acc ..... 2	1313 Intro/Pub Speak .....3	2263 Intro/Macroecon..... 3	2463 Bus Statistics ..... 3
1063 U.S. History..... 3	Gen Educ Crse .....6	Gen Educ Crse ..... 7	3113 Intro to MIS ..... 3
1113 English Comp I..... 3		English Proficiency Exam**	Free Electives ..... 4
1513 College Algebra..... 3			
Total: ..... 15	Total: ..... 16	Total: ..... 16	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Leg Envrn of Bus ..... 3	3243 Promotional Strat. ....3	3443 Mrktg/Cons Beh..... 3	4143 Mrktg Mngmt ..... 3
3143 Prin of Marketing ..... 3	3343 Bus Finance.....3	4243 Mrktg Research..... 3	4923 Strat Mngmt & Pol ..... 3
3233 Management ..... 3	3823 Quant Methods.....3	Free Electives ..... 6	Free Electives ..... 6
3423 Bus Comm..... 3	Business Elec <sup>1</sup> .....3	Mrktg Elective ..... 3	Mrktg Elective ..... 3
	Free Electives.....3		
Total: ..... 12	Total: ..... 15	Total: ..... 15	Total: ..... 15

\*First-time entering freshmen need to take 1001 Freshman Orientation

\*\*If applicable. See English Proficiency Program under the General Academic Information Section.

<sup>1</sup> 3000-4000 Level School of Business with advisor approval.

**Degrees Offered in the  
COLLEGE OF PROFESSIONAL AND  
GRADUATE STUDIES**

**SCHOOL OF COMPUTER SCIENCE  
AND TECHNOLOGY**

**Dr. Ken Rose, Dean**  
**Dr. Harpal Dhillon, Associate Dean**

**COMPUTER SCIENCE**

Computer Science – B.S.  
Computer Science Emphasis  
Information Science Emphasis

**TECHNOLOGY**

Engineering Technology – B.S.  
Computer Engineering Technology  
Environmental Engineering Technology  
Manufacturing Engineering Technology  
Industrial Technology – B.S.  
Electronics Technology  
Environmental Technology  
Industrial Supervision  
Manufacturing Technology  
General Technology



# SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

## DEPARTMENT OF COMPUTER SCIENCE

### FACULTY

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M. Raoufi.....	STF 252 .....	<a href="mailto:mehdi.raoufi@swosu.edu">mehdi.raoufi@swosu.edu</a> .....	(580) 774-3116

### DEPARTMENTAL GOALS

1. To prepare graduates for careers in computer science, information systems, and telecommunication systems.
2. To provide appropriate courses for those students planning to enter graduate school in computer science, information systems/technology, and communication systems.
3. To provide supportive courses and a minor program of study for students with majors outside the Computer/Information Science area.
4. To provide courses and support for students wishing to become computer science teachers.
5. To provide computer literacy and computer applications courses for the benefit of the general student body.

### PROGRAMS OF STUDY

**Majors:** B.S. Computer Science  
(Computer Science Emphasis)  
(Information Systems Emphasis)

**Minor:** Computer Science

### GENERAL INFORMATION

The Department of Computer Science offers a four-year degree with either a Computer Science or Information Systems emphasis. These programs provide students with the computer/information science training and skills necessary to enter the job market. Our graduates have been highly successful in developing careers in information systems/technology work areas. A sustained emphasis on up-to-date computing technology education and a departmental focus on career preparation are the primary strengths of the Computer Science program. The Bachelor of Science degree in Computer Science is also appropriate for those planning to enter graduate school for Masters and Ph.D. degrees in Computer Science, Information Systems, Business Technologies, and Telecommunications.

The Department of Computer Science is located in a building with networked teaching computer labs and a general lab for all students. These labs are equipped with IBM-compatible computers providing access to the latest in software systems. The Department maintains a Networking and Research Laboratory with computers available for advanced students' experimentation and research. Numerous programming languages and database systems are available. SWOSU is an Internet "hub" for western Oklahoma, and each student is given an Internet account.

The Computer Science curriculum is modeled to closely follow the recommendations of the Association of Computing Machinery. The courses are, therefore, recognized and accepted throughout the United States. The set of required courses includes a variety of programming languages and software systems: Computer Organization, Data Structures, Operating Systems, Software Engineering, Web-based Applications, Data Communication and Networking, and Database Concepts. Depending upon the degree emphasis, remaining curriculum will either stress computing concepts with courses in Programming Languages, Discrete Structures, and Object-Oriented Programming, or may concentrate on information systems/business applications with several courses in Java, Systems Analysis and Design, Information Systems Design and Implementation, Database Management, and Internet Programming.

The Computer Club is an active student organization promoting professional development of computer science students and providing an opportunity for social interaction for those with interests in computer science and information systems. The club holds meetings providing interesting and informative programs, and arranges trips to company computing facilities. Participation in programming contests, both local and at other sites, and fundraising activities are other regular endeavors of the Computer Club.

For more information visit our web site at:  
<http://www.swosu.edu/compsci/>

# BACHELOR OF SCIENCE COMPUTER SCIENCE

## GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

**REQUIRED HOURS** .....43 - 44

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

**Mathematics** .....3  
*MATH 1143 Math Concepts*  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications**.....2  
**COMSC 1022 Computers & Information Access**

**Natural Sciences**.....8  
**BIOL 1004 Biological Concepts**  
*SCI 1514 Concepts of Physical Science*  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

**Humanities & Fine Arts**.....6  
**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
*PHILO 1453 Intro to Philosophy*  
*COMM 1313 Intro to Public Speaking*

**U.S. History & Government**.....6  
**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies**.....6  
*HIST 1033 World History*  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

**Behavioral, Social, & Cultural Studies**.....6-7  
*PSYCH 1003 General Psychology*  
**SOCIO 1003 Introduction to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**HPE 1133 Wellness Concepts & Exercise**  
**Application**

## Computer Science Major (Computer Science Emphasis) Code No. 110

Required Courses..... 33

COMSC 1033 Computer Science I  
 COMSC 1053 Computer Science II  
 COMSC 3013 Computer Organization  
 COMSC 3033 Data Structures  
 COMSC 3043 Systems Programming  
 COMSC 3053 Operating Systems  
 COMSC 3133 Software Engineering  
 COMSC 4023 Discrete Structures  
 COMSC 4433 Database Systems  
 COMSC 4953 CAPSTONE I  
 COMSC 4963 CAPSTONE II

Approved Computer Science Electives..... 12

Choose four courses from the following list

COMSC 1433 Visual Basic Programming I  
 COMSC 2053 Java Programming  
 COMSC 2433 Visual Basic Programming II  
 COMSC 2463 C# Programming  
 COMSC 2503 Information Systems in Organizations  
 COMSC 3153 Data Communications and Networks  
 COMSC 3103 Hardware/Software Concepts  
 COMSC 3913 Web Development I  
 COMSC 4033 Principles of Programming Languages  
 COMSC 4053 Object-Oriented Software Engineering  
 COMSC 4133 Design & Analysis of Comp. Algorithms  
 COMSC 4453 Advanced Database Systems  
 COMSC 4503 Information Systems and Security  
 COMSC 4913 Web Development II

Auxiliary Requirements..... 14

MATH 1834 Calculus I  
 MATH 2834 Calculus II  
 MATH 3433 Statistics I  
**OR MATH 3413 Statistical Methods I**  
 ACCTG 2213 Principles of financial Accounting

Electives to bring total to.....120

For the minor program, refer to the Computer 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..... 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  
 (including last 8)..... 30  
 Minimum Grade Point Average in all coursework.....2.00  
 Minimum Grade Point Average in major.....2.00

# BACHELOR OF SCIENCE COMPUTER SCIENCE

## GENERAL EDUCATION

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

**REQUIRED HOURS** .....43 - 44

**Composition** .....6

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

**Mathematics** .....3

MATH 1143 *Math Concepts*  
MATH 1513 **College Algebra OR**  
higher numbered math course

**Computer Applications**.....2

COMSC 1022 **Computers & Information Access**

**Natural Sciences** .....8

BIOL 1004 **Biological Concepts**  
SCI 1514 *Concepts of Physical Science*  
ASTRO 1904 *Astronomy*  
GEOL 1934 *Physical Geology*  
CHEM 1004 **General Chemistry OR**  
higher numbered chemistry course

**Humanities & Fine Arts**.....6

ART 1223 *Art Survey*  
LIT 2413 *Intro to Literature*  
MUSIC 1013 *Intro to Music I*  
PHILO 1453 *Intro to Philosophy*  
COMM 1313 *Intro to Public Speaking*

**U.S. History & Government** .....6

POLSC 1103 **American Government & Politics**  
HIST 1063 **U.S. History**

**Economic & International Studies** .....6

HIST 1033 *World History*  
GEOG 1103 **World Cultural Geography**  
ECONO 2263 *Intro to Macroeconomics OR*  
ECONO 2363 *Intro to Microeconomics*

**Behavioral, Social, & Cultural Studies** .....6-7

PSYCH 1003 *General Psychology*  
SOCIO 1003 **Introduction to Sociology**  
4 *World Languages*  
TECH 1223 **Technology and Society**  
HPE 1133 *Wellness Concepts & Exercise Applications*

## Computer Science Major (Information Systems Emphasis) Code No. 109

Required Courses .....33

COMSC 1033 **Computer Science I**  
COMSC 1053 **Computer Science II**  
COMSC 2503 **Information Systems in Organizations**  
COMSC 3103 **Hardware/Software Concepts**  
COMSC 3153 **Data Communications and Networks**  
COMSC 3353 **Systems Analysis and Design**  
COMSC 4023 **Discrete Structures**  
COMSC 4433 **Database Systems**  
COMSC 4503 **Information Systems and Security**  
COMSC 4953 **CAPSTONE I**  
COMSC 4963 **CAPSTONE II**

Approved Computer Science Electives .....12

Choose four courses from the following list.

COMSC 1433 *Visual Basic Programming I*  
COMSC 2433 *Visual Basic Programming II*  
COMSC 3013 *Computer Organization*  
COMSC 3043 *Systems Programming*  
COMSC 3133 *Software Engineering*  
COMSC 3513 *IS Project Management*  
COMSC 3913 *Web Development I*  
COMSC 3933 *Multimedia Systems – Design & Eval*  
COMSC 4053 *Object-Oriented Software Engineering*  
COMSC 4453 *Advanced Database Systems*  
COMSC 4513 *Decision Support and Expert Systems*  
COMSC 4913 *Web Development II*

Auxiliary Requirements.....17

MATH 1834 *Calculus I*  
MATH 2834 *Calculus II*  
MATH 3433 *Statistics I*  
**OR** MATH 3413 *Statistical Methods I*  
MNGMT 4533 *Management Information Systems*  
GEBUS 3823 *Quantitative Business Methods*

Electives to bring total to.....120

For the minor program, refer to the Computer 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 .....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

(including last 8).....30

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

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



**COMPUTER SCIENCE (CODE 110)**  
**COMPUTER SCIENCE EMPHASIS**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1053 Computer Science II..... 3	1834 Calculus I..... 4	2834 Calculus II ..... 4
1022 Comp/Info Access ..... 2	1213 English Comp II..... 3	3033 Data Structures..... 3	3013 Comp Organization..... 3
1033 Computer Science I..... 3	2213 Prin Fin Acctg..... 3	Natural Sci Req..... 4	Gen Educ Crses ..... 6
1113 English Comp I ..... 3	1004 Biological Concepts ..... 4	Gen Educ Crses ..... 3	Minor Requirement ..... 3
1513 College Algebra ..... 3	Gen Educ Crses..... 3	Minor Requirement..... 3	
Gen Educ Crses..... 3		English Proficiency Exam**	
Total:..... 15	Total: ..... 16	Total: ..... 17	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3413 Statistical Methods <b>or</b>	2 <sup>nd</sup> Program Language <sup>1</sup> ..... 3	3053 Operating Systems ..... 3	4963 Capstone II ..... 3
3433 Statistics I..... 3	3133 Software Eng ..... 3	Comp. Sci. Elective*** ..... 3	Comp. Sci. Elective*** ..... 3
4023 Discrete Structures ..... 3	Comp. Sci. Elective ..... 3	Minor requirement..... 3	Minor requirement..... 3
Gen Educ Crses..... 3	Minor requirement..... 3	4433 Database Syst..... 3	Gen Educ Crse..... 3
Minor requirement ..... 3	Gen Educ Crses ..... 3	4933 Capstone I..... 3	
3043 Syst. Programming..... 3			
Total:..... 15	Total: ..... 15	Total: ..... 15	Total: ..... 12

<sup>1</sup>Choose one of the following: 1433Visual Basic Programming I; 2053 Java Programming; 2463 C# Programming.

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

\*\*\* 3000-4000 Level with Advisor approval.

**COMPUTER SCIENCE (CODE 109)**  
**INFORMATION SYSTEMS EMPHASIS**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1053 Computer Science II ..... 3	2834 Calculus II..... 4	3103 Hard/Software Con ..... 3
1002 Comp/Info Access ..... 2	1213 English Comp II..... 3	2503 Info Syst Organization ... 3	3413 Statistical Methods <b>or</b>
1033 Computer Science I..... 3	1834 Calculus I..... 4	Gen Educ Crses ..... 3	3433 Statistics I..... 3
1113 English Comp I ..... 3	1004 Biological Concepts..... 4	Minor Requirement ..... 6	2 <sup>nd</sup> Program Language <sup>1</sup> ..... 3
1513 College Algebra ..... 3	Gen Educ Crses ..... 3	English Proficiency Exam**	Minor requirement..... 3
Gen Educ Crses..... 3			Gen Educ Crses ..... 3
Total:..... 15	Total: ..... 17	Total: ..... 16	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3153 Data Com & Networks .... 3	3353 Syst. Analysis Des ..... 3	Gen Educ Crses ..... 3	4963 CAPSTONE II..... 3
Comp Sci Elective..... 3	4503 Inf System & Sec..... 3	Comp Sci Elective*** ..... 3	Comp. Sci. Elective*** ..... 3
4023 Discrete Structures ..... 3	Minor requirement..... 6	4533 Info. Systems Mgmt ..... 3	Minor requirement..... 3
3823 Quantative Methods ..... 3	Nat. Sci Req..... 4	4433 Database System..... 3	Gen Educ Crse..... 3
Gen Educ Crses..... 3		4953 CAPSTONE I..... 3	
Total:..... 15	Total: ..... 16	Total: ..... 15	Total: ..... 12

<sup>1</sup>Choose the following: 1433Visual Basic Programming I.

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

\*\*\* 3000-4000 Level with Advisor approval.

# SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

## DEPARTMENT OF TECHNOLOGY

### FACULTY

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J. Short.....	TBB 110.....	<a href="mailto:jeff.short@swosu.edu">jeff.short@swosu.edu</a> .....	(580) 774-3711

### DEPARTMENTAL GOALS

The Department of 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 Engineering Technology  
Environmental Engineering Technology  
Manufacturing Engineering Technology

B.S. Industrial Technology  
Electronics Technology  
Environmental Technology  
Industrial Supervision  
Manufacturing Technology  
General Technology

B.S.Ed. Technology Education  
Standard Tech. Ed. Certification

#### Minors:

Computer Technology  
Drafting  
Electronics  
General Technology

#### Master:

M.Ed. Technology  
(See Graduate Catalog for more information.)

#### Certification:

Trade and Industrial Education

### GENERAL INFORMATION

Technology curricula allows for a variety of exciting opportunities in the areas of Industrial and Engineering Technology as well as Technology Education Certification for the secondary schools. Manufacturing Engineering Technology is currently accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – Telephone: (410) 347-7700. 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 placement are manufacturing engineering technologists, quality assurance managers, plant and production supervisors, production analysts, planners and schedulers, and estimators. Approximately 30% of Oklahoma Technology Education teachers have at least one degree from SWOSU.

The student chapter of the Society of Manufacturing Engineers and the Technology Education Collegiate Association conduct numerous professional development and social activities for department majors and minors. Activities common to SME and TECA in addition to regular meetings include industrial tours, educational conferences, tool shows, and the sponsorship of leadership activities. The student professional organizations jointly host various academic competition activities for area secondary students.

For more information visit our web site at:

<http://www.swosu.edu/tech/>

# BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

## GENERAL EDUCATION

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

**TOTAL HOURS..... 43 - 44**

**Composition .....6**

ENGL 1113 English Composition I  
ENGL 1213 English Composition II

**Mathematics.....3**

MATH 1143 Math Concepts  
MATH 1513 College Algebra OR a  
higher numbered math course

**Computer Applications.....2**

COMSC 1022 Computers & Information Access

**Natural Sciences .....8**

BIOL 1004 Biological Concepts (required)  
SCI 1514 Concepts of Physical Science  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts .....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
COMM 1313 Intro to Public Speaking

**U.S. History & Government .....6**

POLSC 1103 American Government & Politics  
HIST 1063 U.S. History

**Economic & International Studies .....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
ECONO 2263 Intro to Macroeconomics **OR**  
ECONO 2363 Intro to Microeconomics

**Behavioral, Social & Cultural Studies ..... 6 - 7**

PSYCH 1003 General Psychology  
SOCIO 1003 Introduction to Sociology  
\_\_\_\_\_4 World Languages  
TECH 1223 Technology and Society  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Engineering Technology Major/Minor Code No. 131

The Engineering Technology major/minor includes 53 hours of core requirements, a selected technical specialty, and electives approved by the department to total 130 hours. The Manufacturing Engineering Technology specialization is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – Telephone: (410) 347-7700.

**Core Requirements .....53**

PHY 1044 Basic Physics I  
TECH 1101 Introduction to Technology  
TECH 1203 Engineering Drafting  
COMSC 1433 Visual Basic Programming  
MATH 1613 College Trigonometry  
TECH 2513 Fabrication Processes I  
MATH 2823 Applied Calculus  
TECH 3113 Industrial Safety  
TECH 3143 Technical Presentations  
TECH 3203 Computer Aided Drafting I (CAD)  
TECH 3263 Machine Drafting I  
MATH 3413 Statistical Methods I  
TECH 3463 Manufacturing Operations I  
TECH 3613 Power Systems  
TECH 3873 Applied Electronics  
MFET 4020 Prof Certification Requirements  
TECH 4373 Economic Decision Analysis  
TECH 4433 Quality Control  
TECH 4493 Manufacturing Operations II

Majors must select one specialization from the following technical areas.

### Manufacturing Engineering Technology

**Manufacturing Requirements .....32**

MFET 3183 Statics & Strengths  
TECH 3413 Manufacturing Processes  
MFET 3433 Automation/Robotics  
TECH 3513 Materials Testing & Analysis  
TECH 3523 Fabrication Processes II  
TECH 3813 Electro/Mechanical Controls  
MFET 4443 Material Handling/Facility Planning  
TECH 4454 Computer Aided Manuf (CAM)  
TECH 4514 Machine Tool Processes  
MFET 4951 Capstone I  
MFET 4962 Capstone II

**Computer Engineering Technology .....33**

**Electronics Requirements .....15**

TECH 3833 Communications Electronics  
TECH 3843 Telecommunications  
TECH 4813 Networking Electronics  
TECH 4823 Digital Electronics  
TECH 4833 Microcomputer Electronics

**Electronics Electives .....3**

TECH 3813 Electro/Mechanical Controls  
TECH 3853 Electronic Instrumentation  
TECH 3863 Electronic Troubleshooting  
TECH 4843 Programmable Controllers

Computer Science Required.....	6
COMSC 1033 Computer Science I	
COMSC 1053 Computer Science II	
Computer Science Electives.....	9
Computer Science Electives (by advisement) to total 9 hours.	
<b>Environmental Engineering Technology</b>	
Environmental Requirements.....	34
CHEM 1203 General Chemistry I	
CHEM 1252 General Chemistry I Lab	
CHEM 1303 General Chemistry II	
CHEM 1352 General Chemistry II Lab	
GEOL 1934 Physical Geology	
CHEM 2114 Organic/Biochemistry	
CHEM 2114L Organic/Biochemistry Lab	
CHEM 3244 Environmental Chemistry	
TECH 3413 Manufacturing Processes	
CHEM 4254 Industrial Chemistry & Environmental Regulations	
ALHLT 4355 Microbiology	
Electives (by advisement) to total .....	130

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

The mission of the Engineering Technology Program is to provide students the education and experience necessary to understand, apply, and control the manufacturing process and the production methods of industry.

#### REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation .....	130
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 (including last 8) .....	30
Minimum Grade Point Average in all coursework .....	2.00
Minimum Grade Point Average in major .....	2.00



**ENGINEERING TECHNOLOGY (CODE 131)**  
**COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II..... 3	1044 Basic Physics I.....4	1033 Computer Science I.....3
1101 Intro to Technology ..... 1	1433 Visual Basic Prog..... 3	2823 Applied Calculus.....3	2513 Fabrication Proc. I.....3
1113 English Comp I.....3	1613 College Trig..... 3	3873 Applied Elec.....3	Gen Educ Crses.....9
1203 Engineering Draft ..... 3	3203 CAD I ..... 3	Gen Educ Crses ..... 7	
1513 College Algebra..... 3	Gen Educ Crses ..... 6	English Proficiency Exam**	
Gen Educ Crses ..... 5			
Total: ..... 16	Total: ..... 18	Total: ..... 17	Total: ..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry .....4	3143 Technical Pres..... 3	3113 Industrial Safety .....3	3163 Power Systems .....3
1053 Computer Science II ..... 3	3463 Mfg Oper I..... 3	4493 Mfg Oper II .....3	3263 Machine Drafting I.....3
3413 Statistical Methods I.....3	3613 Power Systems..... 3	4813 Networking Elec.....3	4020 Professional Cert.
4433 Quality Control..... 3	3843 Telecommunications ..... 3	4823 Digital Electronics.....3	4833 Microcomputer Elec.....3
COMSC Elective.....3	COMSC Elective ..... 3	COMSC Elective.....3	COMSC Elective ..... 3
	Gen Educ Crse ..... 3		Electronics Elective ..... 4
Total: ..... 16	Total: ..... 18	Total: ..... 15	Total: ..... 16

\* 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 SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* ..... 1	1213 English Comp II..... 3	1044 Basic Physics I.....4	1934 Physical Geology .....4
1101 Intro to Technology ..... 1	1433 Visual Basic Prog..... 3	2823 Applied Calculus.....3	2513 Fabrication Proc I.....3
1113 English Comp I.....3	1613 College Trigonometry ..... 3	3203 CAD I.....3	Gen Educ Crses.....9
1203 Engineering Draft ..... 3	3873 Applied Electronics..... 3	Gen Educ Crses ..... 6	
1513 College Algebra..... 3	Gen Educ Crses ..... 6	English Proficiency Exam**	
Gen Educ Crses ..... 5			
Total: ..... 16	Total: ..... 18	Total: ..... 16	Total: ..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I ..... 3	2114 Organic/Biochem..... 4	1303 Gen Chem II.....3	Gen Educ Crse ..... 4
1252 Gen Chem I Lab ..... 2	2114L Organic/Biochem Lab	1352 Gen Chem II Lab.....2	3244 Environ Chem .....4
3113 Industrial Safety.....3	3413 Mfg. Processes ..... 3	3413 Statistical Methods I.....3	3613 Power Systems .....3
3143 Technical Pres..... 3	4373 Econ Decision Analysis ..... 3	4254 Industrial Chem .....4	4020 Professional Cert
3263 Machine Drafting I ..... 3	Gen Educ Crse ..... 4	4433 Quality Control.....3	4355 Microbiology .....5
3463 Mfg. Oper. I..... 3			4493 Mfg Oper II.....3
Total: ..... 17	Total: ..... 14	Total: ..... 15	Total: ..... 19

\* 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)**  
**MANUFACTURING ENGINEERING TECHNOLOGY SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1213 English Comp II ..... 3	1044 Basic Physics I..... 4	3523 Fab. Proc. II..... 3
1101 Intro to Technology..... 1	1433 Visual Basic Prog ..... 3	2823 Applied Calculus ..... 3	3873 Applied Elec..... 3
1113 English Comp I ..... 3	1613 College Trigonometry..... 3	3203 CAD I ..... 3	Gen Educ Crses ..... 10
1203 Engineering Draft..... 3	2513 Fab. Proc. I ..... 3	Gen Educ Crses ..... 6	
1513 College Algebra ..... 3	Gen Educ Crses ..... 6	English Proficiency Exam**	
Gen Educ Crses..... 5			
Total:..... 16	Total: ..... 18	Total: ..... 16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry..... 4	3113 Industrial Safety ..... 3	3513 Materials Test ..... 3	3613 Power Systems ..... 3
3143 Tech. Pres..... 3	3263 Machine Drafting I ..... 3	3433 Automation/Robotics..... 3	4020 Professional Cert
3183 Statics & Strengths..... 3	3413 Manfg Processes..... 3	4373 Econ. Dec. Analy..... 3	4443 Materials Handlg F/P.... 3
3413 Statistical Methods I..... 3	3463 Manfg. Ops I..... 3	4433 Quality Control ..... 3	4454 Comp Aided Mfg..... 4
3813 Electro/Mech Controls ..... 3	Manufacturing Elective ..... 2	4514 Machine Tool Proc ..... 4	4493 Manufacturing Ops I..... 3
	Gen Educ Crse..... 3	4951 Capstone I..... 1	4962 Capstone II ..... 2
Total:..... 16	Total: ..... 17	Total: ..... 17	Total:..... 15

\* 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

## GENERAL EDUCATION

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

**TOTAL HOURS..... 43 - 44**

**Composition .....6**

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

**Mathematics.....3**

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

**Computer Applications .....2**

**COMSC 1022 Computers & Information Access**

**Natural Sciences .....8**

**BIOL 1004 Biological Concepts**  
**SCI 1514 Concepts of Physical Science**  
ASTRO 1904 Astronomy  
GEOL 1934 Physical Geology  
CHEM 1004 General Chemistry OR  
higher numbered chemistry course

**Humanities & Fine Arts .....6**

ART 1223 Art Survey  
LIT 2413 Intro to Literature  
MUSIC 1013 Intro to Music I  
PHILO 1453 Intro to Philosophy  
*COMM 1313 Intro to Public Speaking*

**U.S. History & Government .....6**

**POLSC 1103 American Government & Politics**  
**HIST 1063 U.S. History**

**Economic & International Studies .....6**

HIST 1033 World History  
GEOG 1103 World Cultural Geography  
*ECONO 2263 Intro to Macroeconomics OR*  
*ECONO 2363 Intro to Microeconomics*

**Behavioral, Social Science, & Cultural Studies ..... 6-7**

PSYCH 1003 General Psychology  
SOCIO 1003 Introduction to Sociology  
\_\_\_\_ 4 World Languages  
**TECH 1223 Technology & Society**  
HPE 1133 Wellness Concepts & Exercise  
Applications

## Industrial Technology Major/Minor Code No. 135

The Industrial Technology major/minor includes a 40-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.

**Core Requirements ..... 40**

COMSC 1433 Visual Basic Programming  
MATH 1613 College Trigonometry  
**OR** MATH 3413 Statistical Methods  
**OR** MATH 3433 Statistics  
TECH 1101 Introduction to Technology  
TECH 1203 Engineering Drafting  
TECH 1313 Wood Materials & Processes  
TECH 2513 Fabrication Processes I  
TECH 3113 Industrial Safety  
TECH 3143 Technical Presentations  
TECH 3203 Computer Aided Drafting I (CAD)  
TECH 3453 Industrial Plastics  
TECH 3463 Manufacturing Operations I  
TECH 3613 Power Systems  
TECH 3873 Applied Electronics  
TECH 4123 Industrial Supervision

**Management electives (by advisement) ..... 12**

ACCTG 2213 Principles of Financial Accounting  
ECONO 2263 Introduction to Macroeconomics  
ACCTG 2313 Principles of Managerial Accounting  
ECONO 2363 Introduction to Microeconomics  
GEBUS 3123 Legal Environment of Business  
MRKTG 3143 Principles of Marketing  
TECH 3173 Environmental Regulations  
MNGMT 3233 Management  
MNGMT 3333 Personnel/Human Resource Mngmt.  
MATH 3413 Statistical Methods  
**OR** MATH 3433 Statistics I  
TECH 4443 Material Handling and Facility Plng.  
TECH 4433 Quality Control  
TECH 4493 Manufacturing Operations II  
TECH 4900 Orientation to Industrial Internship  
TECH 4916 Industrial Internship

Majors must select one specialization from the following technology areas.

**Electronics Technology ..... 24**

**Required Courses ..... 18**

TECH 1813 Basic Electronics I  
TECH 2813 Basic Electronics II  
TECH 3823 Industrial Electronics  
TECH 4823 Digital Electronics  
TECH 4833 Microcomputer Electronics  
TECH 4843 Programmable Controllers

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

<b>Environmental Technology</b> .....	24
Required Courses .....	21
CHEM    1203    General Chemistry I	
CHEM    1252    General Chemistry I (Lab)	
CHEM    1303    General Chemistry II	
CHEM    1352    General Chemistry II (Lab)	
GEOL    1934    Physical Geology	
BIOL    2204    Introductory Zoology	
TECH    3173    Environmental Regulations	
Approved Electives .....	3
<b>Industrial Supervision</b> .....	24
Required Courses .....	15
TECH    3173    Environmental Regulations	
TECH    3413    Manufacturing Processes	
MNGMT  3433    Organizational Theory	
TECH    4433    Quality Control	
TECH    4493    Manufacturing Operations II	
Approved Electives .....	9
(Certification from the American Production and Inventory Control Society (APICS) Recommended)	
<b>Manufacturing Technology</b> .....	24
Required Courses .....	20
TECH    3263    Machine Drafting I	
TECH    3413    Manufacturing 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
<b>General Technology</b> .....	24
Approved Electives .....	24
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 <u>lower division</u> 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)

Electives (by advisement) to total.....120

Industrial Technology articulates industrial management with a specialization in electronics technology, environmental technology, industrial supervision, manufacturing technology, and general 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 (including last 8).....	30
Minimum Grade Point Average in all coursework.....	2.00
Minimum Grade Point Average in major.....	2.00

**INDUSTRIAL TECHNOLOGY (CODE 135)**  
**ELECTRONICS TECHNOLOGY SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1213 English Comp II .....3	1433 Visual Basic ..... 3	2513 Fabrication Proc. I .....3
1223 Technology & Society .....3	1313 Wood Mat & Proc .....3	1514 Conc. Phy. Science ..... 4	Electronic Elective .....3
1101 Intro to Technology .....1	1813 Basic Electronics I .....3	2813 Basic Electr. II ..... 3	Gen Educ Crses .....9
1113 English Comp I .....3	Gen Educ Crse .....3	Gen Educ Crses ..... 5	
1203 Engineering Draft .....3	1613 College Trig .....3	English Proficiency Exam**	
1513 College Algebra .....3	OR 3413 Stat Methods .....3		
Gen Educ Crses .....3	OR 3433 Statistics .....3		
Total: .....17	Total: ..... 15	Total: ..... 15	Total: .....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3203 CAD I .....3	3113 Industrial Safety .....3	3463 Manufg Ops I ..... 3	3143 Technical Present .....3
3823 Industrial Elec .....3	3453 Industrial Plastics .....3	4823 Digital Electronics ..... 3	4123 Industrial Supv .....3
Technology Elective .....3	3613 Power Systems .....3	Gen Educ Crse ..... 4	4833 Microcomputer Elect .....3
Management Elective .....3	4843 Program Controllers .....3	Management Elective ..... 3	Electronic Elective .....3
Gen Educ Crse .....3	Management Elective .....3		Management Elective .....3
Total: .....15	Total: ..... 15	Total: ..... 13	Total: .....15

\* 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)**  
**ENVIRONMENTAL TECHNOLOGY SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* .....1	1213 English Comp II .....3	1203 Gen Chem I ..... 3	1303 Gen Chem II .....3
1101 Intro to Technology .....1	1313 Wood Mat & Proc .....3	1252 Gen Chem I Lab ..... 2	1352 Gen Chem II Lab .....2
1113 English Comp I .....3	1613 College Trig .....3	1514 Conc Physical Sci ..... 4	2513 Fabrication Proc I .....3
1223 Tech & Society .....3	OR 3413 Stat Methods .....3	Gen. Educ. Crses ..... 6	Gen Educ Crses .....9
1203 Engineering Draft .....3	OR 3433 Statistics .....3	English Proficiency Exam**	
1613 College Algebra .....3	3873 Applied Elec .....3		
Gen Educ Crses .....3	Gen Educ Crses .....5		
Total: .....17	Total: ..... 17	Total: ..... 15	Total: .....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1433 Visual Basic .....3	3113 Industrial Safety .....3	1934 Physical Geology ..... 4	3143 Technical Pres .....3
2204 Intro Zoology .....4	3453 Industrial Plastics .....3	3463 Manufacturing Ops I ..... 3	3173 Environmental Regs .....3
3203 CAD I .....3	3613 Power Systems .....3	Management Elective ..... 3	4123 Industrial Supv .....3
Management Elective .....3	Management Elective .....3	Gen Educ Crse ..... 3	Management Elective .....3
Gen Educ Crse .....3	Gen Educ Crse .....2		
Total: .....16	Total: ..... 14	Total: ..... 13	Total: .....12

\* 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 SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1101 Intro to Technology ..... 1	1313 Wood Mat & Proc .....3	2513 Fabrication Proc I..... 3
1113 English Comp I ..... 3	1203 Engineering Draft ..... 3	1433 Visual Basic .....3	3873 Applied Elec ..... 3
1223 Technology & Society..... 3	1213 English Comp II..... 3	1514 Conc Physical Sci.....4	Gen Educ Crses..... 10
1513 College Algebra ..... 3	Gen Educ Crses ..... 6	3203 CAD I.....3	
Gen Educ Crses..... 5	1613 College Trig..... 3	Gen Educ Crse .....3	
	OR 3413 Stat Methods ..... 3	English Proficiency Exam**	
	OR 3433 Statistics..... 3		
Total:..... 15	Total: ..... 16	Total: ..... 16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Technical Pres ..... 3	3523 Fabrication Process II ..... 3	4514 Machine Tool Proc .....4	4123 Industrial Supv ..... 3
3463 Manufacturing Ops I ..... 3	3263 Machine Drafting I ..... 3	Manufactg Electives.....4	4454 Computer Aided Mfg ..... 4
3513 Materials Testing.....3	3413 Manufactg Processes..... 3	Management Electives .....6	Managmt Elective ..... 6
3113 Industrial Safety ..... 3	3453 Industrial Plastics..... 3		
3613 Power Systems ..... 3	Gen Ed Crse..... 3		
Total:..... 15	Total: ..... 15	Total: ..... 14	Total:..... 13

\* 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)**  
**INDUSTRIAL SUPERVISION SPECIALIZATION**  
**Suggested Course Sequence**

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1213 English Comp II..... 3	1433 Visual Basic .....3	2513 Fabrication Proc ..... 3
1101 Intro to Technology ..... 1	1313 Wood Mat & Proc..... 3	1514 Conc Physical Sci.....4	Management Elective..... 3
1113 English Comp I ..... 3	1613 College Trig ..... 3	Gen Educ Crses .....9	Gen Educ Crses..... 9
1223 Tech & Society..... 3	OR 3413 Stat Methods ..... 3	English Proficiency Exam**	
1203 Engineering Draft..... 3	OR 3433 Statistics..... 3		
1613 College Algebra ..... 3	3873 Applied Elec ..... 3		
Gen Educ Crses..... 3	Gen Educ Crses ..... 3		
Total:..... 17	Total: ..... 15	Total: ..... 16	Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3203 CAD I..... 3	3113 Industrial Safety..... 3	3173 Env. Regulations .....3	3143 Technical Present ..... 3
3463 Manufacturing Ops I ..... 3	3413 Manufactg Processes..... 3	3433 Org. Theory .....3	4123 Industrial Supv ..... 3
Managmt Elective .....3	3453 Industrial Plastics..... 3	4433 Quality Control.....3	Management Elective..... 3
Gen Educ Crse ..... 4	3613 Power Systems..... 3	Management Elective.....3	Approved Elective ..... 6
	4493 Manufactg Oper II ..... 3	Approved Elective.....3	
Total:..... 13	Total: ..... 15	Total: ..... 15	Total:..... 15

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

\*\* If applicable. See English Proficiency Program under the General Academic Information Section.

**Degrees Offered in the  
COLLEGE OF PROFESSIONAL AND  
GRADUATE STUDIES**

**SCHOOL OF NURSING**

Dr. Ken Rose, Dean  
Dr. Pat Meyer, Associate Dean

**SCHOOL OF NURSING**

Nursing – B.S.N.

Nursing – R.N. to B.S.N.

# SCHOOL OF NURSING

## FACULTY

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K. Wolff.....	STE B08.....	<a href="mailto:kathy.wolff@swosu.edu">kathy.wolff@swosu.edu</a> .....	(580) 774-3262

## SCHOOL GOALS

The mission of the School of Nursing is to provide the people of Oklahoma, specifically western Oklahoma, an opportunity for Baccalaureate education that prepares the nurse graduate as a beginning professional practitioner in a variety of clinical settings, and career advancement for Registered Nurses. This is achieved with the following purposes:

1. To prepare a practitioner for beginning positions in professional nursing.
2. To facilitate career mobility for the registered nurse seeking a Baccalaureate in nursing.
3. To foster and support professional nursing in western Oklahoma.
4. To provide preparation for graduate study in nursing.
5. To facilitate scientific inquiry through faculty and student research.
6. To provide for continuous evaluation and nursing practice needs in western Oklahoma.

## PROGRAMS OF STUDY

**Majors:** B.S.N. Nursing  
R.N. to B.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 National League for Nursing Accrediting Commission 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 Integris Clinton Regional Hospital, Clinton; Great Plains Regional Medical Center, Elk City; Mercy Hospital, St. Anthony Hospital, OU Medical Center, Presbyterian Tower, and Children's Hospital, Oklahoma City; Integris Southwest, Oklahoma City, VA Medical Center, Oklahoma City, Headstart Programs, day care, and senior citizen centers; area health departments, schools, and home health care agencies.





### **Financial Information**

Financing the professional nursing program is the responsibility of the student. Application for financial aid is through the Office of Student Financial Services. Additional sources of financial aid are available after the student is accepted into the major.

### **Fees and Charges**

The following fees and charges are the financial responsibility of the student:

**Liability Insurance.** Students are required to maintain current liability insurance during the professional component of the program.

**Travel/Transportation.** Travel and transportation to all learning sites.

**Uniforms.** Uniforms and other equipment as necessary for clinical practicum.

**Immunizations/Screenings.** Certain immunizations and screenings are required for clinical courses.

### **Admissions to Pre-Professional Component**

The pre-nursing program at SWOSU is open to registered nurses seeking a B.S.N. and high school graduates and college transfer students who have not completed the pre-nursing curriculum for the baccalaureate degree in nursing. All students must qualify for admission to the University before entry into the pre-nursing curriculum.

Regulations concerning admission and credit transfer to Southwestern Oklahoma State University are listed elsewhere in this catalog or may be obtained from the Office of the Registrar.

### **Admission to the Professional Nursing Component Non-Registered Nurse Students**

Students are admitted to the professional component of the nursing major each fall term. Satisfactory completion of all pre-professional requirements to the nursing major is required of all generic (non-R.N.) students before consideration for admittance to the upper level. Certain pre-professional and general education courses must be completed with a grade of "C" or better. A listing of these courses is available from the School of Nursing. A retention grade point average of 2.25 (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 February 1. The student will receive official notification regarding acceptance by the end of the spring semester.

### **Application and Selection**

The faculty of the School of Nursing establish the operating policies and methods of applicant selection.

The Admissions Committee relies heavily on objective criteria such as quality and consistency of academic performance. Pre-professional requirements, GPA, character references, physical and emotional stamina needed to perform the demands of nursing, personal objectives, and motivation are among other factors considered.

Applicants who meet admission criteria are interviewed by nursing faculty. Recommendations to the total faculty are made following committee review and interviews. The decision of the total faculty is final.

The School of Nursing selects the best-qualified students. High motivation, scholastic excellence, and interest in and for a progressive nursing profession are perceived as desirable characteristics for future members of a health care team. The number of applicants accepted will reflect the appropriate student-faculty ratio to meet the program goals and the availability of appropriate clinical resources.

### **Advanced Standing Examinations (Pre-Professional)**

Advanced standing examinations are a means by which a student may receive credit for certain courses by examination. Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are available for challenge of some courses in the pre-nursing curriculum. No more than 31 hours in the lower division may be challenged and applied toward the Bachelor of Science in Nursing degree.

### **Registered Nurse Students**

Southwestern Oklahoma State University admits registered nurses (R.N.'s) from either diploma or associate degrees in nursing programs who wish to obtain a Bachelor of Science in Nursing degree. The R.N. student may receive credit through advanced standing for 31 hours of upper division nursing coursework. Advanced standing is accomplished through Articulation under the statewide articulation plan. All R.N. students must meet University admission requirements. Faculty believe the R.N. student has demonstrated adequate knowledge of pre-professional coursework to obtain either an associate degree or a diploma in nursing. Therefore, the faculty believe that the R.N. student need not be constrained by the prescriptive schedule designed for the generic student. The R.N. student's education may therefore be facilitated by allowing the student to take pre-professional courses at any time and in any sequence prior to graduation.

### **Application and Selection**

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 2.25 (on a 4.0 scale) for all previous college/university work and current valid Oklahoma R.N. licensure. 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 N4512 Bridging Nursing Paradigms, which must be taken the first semester of course work and N4552 Issues & Concepts for Professional Practice, which must be complete 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.

### **Registered Nurse Class Scheduling**

All R.N. to B.S.N. students attend class sections open to registered nurses only. All courses are taught Friday evenings and Saturdays and are designed specifically for the R.N. returning for a baccalaureate degree.

### **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 semester hours, the last 30 hours of which must have been completed at Southwestern Oklahoma State University.

### **Requirements for Licensure to Practice Profession**

In order to be licensed as a registered nurse, an individual must be a graduate of a state approved school of nursing, such as SWOSU. Candidates for licensure as a registered nurse in Oklahoma must pass a National Council Licensure Examination. This examination is administered under the direction of the Oklahoma Board of Nursing. The Bachelor of Science in Nursing degree at SWOSU satisfies the educational requirements for candidates desiring to take this examination.

Additional requirements stipulated by the Oklahoma Board of Nursing include:

1) 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, requirements include submission of an application for licensure with a criminal history records search and successfully passing the licensure examination.

2) To be granted a license, an applicant must have the legal right to reside in the United States (United States Code Chapter 8, Section 1621). The Board has the right to deny a license to an individual with a history of criminal background, disciplinary action on another health-related 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 charges. An individual with a felony conviction or who had sentencing terms imposed by the court related to a deferred sentence for a felony offense 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.

## REQUIRED HOURS ..... 43 - 44

### Composition .....6

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

### Mathematics.....3

**MATH 1143 Math Concepts**  
**MATH 1513 College Algebra OR**  
**higher numbered math course**

### Computer Applications.....2

**COMSC 1022 Computers & Information Access**

### Natural Sciences .....8

**BIOL 1004 Biological Concepts**  
**SCI 1514 Concepts of Physical Science**  
**ASTRO 1904 Astronomy**  
**GEOL 1934 Physical Geology**  
**CHEM 1004 General Chemistry OR**  
**higher numbered chemistry course**

### Humanities & Fine Arts.....6

**ART 1223 Art Survey**  
**LIT 2413 Intro to Literature**  
**MUSIC 1013 Intro to Music I**  
**PHILO 1453 Intro to Philosophy**  
**COMM 1313 Intro to Public Speaking**

### U.S. History & Government .....6

**HIST 1063 U.S. History**  
**POLSC 1103 American Government & Politics**

### Economic & International Studies .....6

**HIST 1033 World History**  
**GEOG 1103 World Cultural Geography**  
**ECONO 2263 Intro to Macroeconomics OR**  
**ECONO 2363 Intro to Microeconomics**

### Behavioral, Social, & Cultural Studies ..... 6-7

**PSYCH 1003 General Psychology**  
**SOCIO 1003 Introduction to Sociology**  
**\_\_\_\_\_4 World Languages**  
**TECH 1223 Technology and Society**  
**\*HPE 1133 Wellness Concepts & Exercise Applications**

\*HPE 1133 Wellness Concepts & Exercise Applications not accepted as credit toward B.S.N. degree.

## REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 127  
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 (including last 8).....30  
Minimum Grade Point Average in all coursework .....2.00  
Minimum Grade Point Average in major .....2.00

## Nursing Major Code No. 502-503

### Pre-Professional Requirements ..... 24

**NURS 2212 Introduction to Professional Nursing**  
**PSYCH 2433 Psychological Statistics**  
**PSYCH 3213 Developmental Psychology or a lifespan growth and development course**  
**BIOL 3704 Human Anatomy**  
**BIOL 3904 Human Physiology**  
**ALHLT 4355 Microbiology**  
**ALHLT 4093 Epidemiology (before senior year)**

### Professional Requirements..... 60

**NURS 3154 Health Promotion**  
**NURS 3164 Competencies for Health Promotion**  
**NURS 3174 Clinical I Health Promotion**  
**NURS 3183 Pharmacology**  
**NURS 3255 Health Restoration I**  
**NURS 3265 Competencies for Health Restoration**  
**NURS 3275 Clinical II Health Restoration**  
**NURS 4154 Health Restoration & Maintenance**  
**NURS 4163 Competencies for Health Restoration & Maintenance**  
**NURS 4176 Clinical III Health Restoration & Maintenance**  
**NURS 4182 Elective I**  
**NURS 4253 Health Maintenance & Promotion**  
**NURS 4262 Competencies for Health Maintenance & Promotion**  
**NURS 4275 Clinical IV Health Maintenance & Promotion**  
**NURS 4293 Transition Into Professional Practice**  
**NURS 4282 Elective II**

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 .....21-21

**PSYCH 2433 Psychological Statistics**  
**OR NURS 4502 Statistics for Nursing Research**  
**PSYCH 3213 Developmental Psychology**  
**OR a lifespan growth and development course**  
**BIOL 3704 Human Anatomy**  
**BIOL 3904 Human Physiology**  
**ALHLT 4355 Microbiology**  
**ALHLT 4093 Epidemiology**

### Free Electives..... 3

### Articulation credits .....30-31

### Professional Requirements R.N. to B.S.N. Students ..... 30

**NURS 4212 Bridging Nursing Paradigms\***  
**NURS 4515 Wellness Through Health Promotion**  
**NURS 4502 Statistics for Nursing Research**  
**OR PSYCH 2433 Psychological Statistics**  
**NURS 4225 Community Nursing Across the Health Continuum**  
**NURS 4522 Nursing Research I**  
**NURS 4523 Theory and Practice Elective**  
**NURS 4535 Contemporary Nursing Leadership**  
**NURS 4532 Nursing Research II\*\***  
**NURS 4542 Ethics and Caring**  
**NURS 4552 Issues & Concepts for Professional Nursing \*\*\***

\* Must be taken first semester of nursing coursework

\*\* Must take Nursing Research I before this course

\*\*\* Must be taken final semester of nursing coursework

# **COLLEGE OF ARTS AND SCIENCES**

## **MINOR PROGRAMS OF STUDY**

Art  
Biological Sciences  
Chemistry  
Communication Arts  
Criminal Justice  
English  
Graphic Design  
History  
Mathematics

Multidisciplinary Studies  
Music  
Physical Science  
Physics  
Political Science  
Social Science (Pre-Law)  
Spanish  
Statistics

## MINOR PROGRAMS OF STUDY IN THE COLLEGE OF ARTS AND SCIENCES

### ART CODE 101

Required Art Courses.....	9
ART 1123 Foundations I	
ART 1133 Foundations II	
Three hours of required art courses must be obtained from the following courses:	
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	

Approved Elective Art Courses.....12

*(A minimum of two studio art areas below must be taken)*

#### DRAWING AREA:

ART 1213	Perspective
ART 3153	Figure Drawing
ART 3753	Life Drawing
ART 4333	Studio Drawing

#### PAINTING/PRINTMAKING/PHOTOGRAPHY AREA:

ART 2113	Acrylic Techniques
ART 3113	Watercolor Studio
ART 3483	Printmaking Studio
ART 3513	Media for Artists
ART 4313	Painting Studio

#### GRAPHIC DESIGN AREA:

ART 2133	Introduction to Graphic Design
ART 2143	History & Theory of Graphic Design
ART 3213	Computer Graphics
ART 3683	Illustration Studio
ART 3783	Photographic/Digital Illustration
ART 3853	Typographic Design
ART 3883	Advertising Design
ART 3923	Publication Design
ART 4413	Package Design

#### THREE DIMENSIONAL STUDIO AREA:

ART 3353	Clay Studio
ART 3413	Sculpture Studio
ART 4253	Applied Design

Total.....21

**Graphic Design or Art Education majors may add an Art minor by choosing 21 credit hours from the approved elective art courses, except no course may be counted towards both the major and minor program.**

### BIOLOGICAL SCIENCES CODE 103

Required Courses.....8

BIOL 1054 Principles of Biology  
**AND** select one of the following:

BIOL 2204 Introductory Zoology  
OR

BIOL 2404 Introductory Botany

Electives.....12

Seven to eight hours of electives must be obtained from the following laboratory courses:

BIOL 2204 Introductory Zoology	BIOL 3904 Human Physiology
BIOL 2404 Introductory Botany	BIOL 4154 Develop. Biology
BIOL 3254 Genetics	BIOL 4284 Animal Parasitol.
BIOL 3304 Aquatic Biology	BIOL 4314 Environment Biol.
BIOL 3403 Plant Morphology	BIOL 4454 Plant Taxonomy
BIOL 3504 Natural History	BIOL 4604 General Ecology
BIOL 3604 General Entomology	BIOL 4964 Molecular Biology
BIOL 3704 Human Anatomy	BIOL 4974 Histology
BIOL 3804 Plant Physiology	ALHLT4355 Microbiology

Four to five hours of additional electives must be selected from among the above list or the following three courses offered by the Department of Biological Sciences. BIOL 2022, 2714, and 4901 do not count toward the minor.

BIOL 3012	Biological Terminology
BIOL 4622	Economically Important Plants
BIOL 4933	Cellular Physiology

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

### COMMUNICATION ARTS CODE 185

Required Courses.....9

COMM 1263	Intro to Theatre
COMM 2103	Intro to Mass Communications
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 & Criminal Behavior

#### Behavior

CRMJS 3243	Comparative Criminal Justice Systems
CRMJS 4103	Juvenile Justice
CRMJS 4153	U.S. Corrections

Electives .....3

CRMJS 2503	Criminal Justice Administration
CRMJS 3803	Privatization of Criminal Justice
CRMJS 4013	Sem: Prevention and Control of Crime
CRMJS 4013	Sem: The Criminal Mind
CRMJS 4033	The Sociology of Law
CRMJS 4143	Critical Issues in Criminal Justice
CRMJS 4333	Victimology
CRMJS 4413	Law Enforcement Policy
CRMJS 4913	Internship in Criminal Justice
SOCIO 3043	Racial and Cultural Minorities
SOCIO 4033	Advanced Analysis of Social Problems

Total .....18

### ENGLISH CODE 112

Required Courses.....12

ENGL 3603 English Grammar

(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 4763	British Literary Heritage to 1800
LIT 4123	British Literature 1795-1950

(Advanced Writing – select *one* of the following)

ENGL 3483	Beginning Creative Writing of Poetry
ENGL 3473	Beginning Creative Writing of Fiction
ENGL 4663	Creative Nonfiction
ENGL 3553	Writing for the Workplace
ENGL 4653	Writing for Multimedia
ENGL 4553	Technical Writing and Editing

Electives (Senior Level-English) ..... 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 3603	English Grammar
ENGL 4423	Introduction to Linguistics
ENGL 4663	Creative Nonfiction
ENGL 4473	Advanced Composition

ENGL	3553	Writing for the Workplace
ENGL	3483	Contemporary Fiction
ENGL	3123	Contemporary Poetry
ENGL	3473	Beginning Creative Writing of Fiction
ENGL	3483	Beginning Creative Writing of Poetry
ENGL	4483	Advanced Creative Writing of Fiction
ENGL	4473	Advanced Creative Writing of Poetry
ENGL	4553	Technical Writing and Editing
ENGL	4653	Writing for Multimedia

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 ..... 15

ART	1133	Foundations II
ART	2133	Introduction to Graphic Design
ART	3513	Media for Artists
ART	3783	Photographic/Digital Illustration
ART	3853	Typographic Design

Electives (Graphic Design)..... 3

ART	3883	Advertising Design
ART	3923	Publication Design

Electives (Art History) ..... 3

ART	4353	Modern Art History
ART	4383	Art History Since 1945

Total ..... 21

#### **HISTORY CODE 120**

Required courses ..... 18

- Upper level American (nine hours)
- Upper level European and/or World (six hours)
- Additional upper level history (three hours)

Total ..... 18

#### **MATHEMATICS CODE 134**

Required Courses ..... 13-14

MATH	1715	College Algebra & Trigonometry
<b>OR MATH 1513 and MATH 1613</b>		
MATH	1834	Calculus I
MATH	2834	Calculus II

Electives (Senior College Mathematics)..... 4-5  
(3000-4000 Level Courses)

Total ..... 18

#### **MULTIDISCIPLINARY STUDIES CODE 190**

Multidiscipline Area Total..... 18

- General Education courses 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 and offered in a given major or minor field of study.
- Practicum and internship courses are not appropriate for this minor.

<u>Multidiscipline Area</u>	<u>Sub-Disciplines</u>
Communication	Language Arts Communication Arts, Foreign Language
Fine Arts and Humanities	Art, Music, Literature, Philosophy, History
HPE and Life Sciences	HPE, Athletic Training, and Life Sciences
Mathematics and Science	Life and Physical Sciences, Mathematics
Behavioral/Social Science	Psychology, History, Criminal Justice, Social Work, Political Science, Geography, Gerontology, Sociology (A minimum of 12 of the 18 hours must be 3000 or 4000 level courses)
Technology	Computer Science, Mathematics, Technology, Physics

<u>Multidiscipline Area</u>	<u>Sub-Disciplines</u>
Business	Accounting, Finance, Business Administration
Education	Education

Total ..... 18

#### **MUSIC CODE 149**

Required Courses..... 17

MUSIC	1214	Music Theory I
MUSIC	1012	Introduction to Music I
MUSIC	1032	Introduction to Music II
MUSIC	2981	Principles of Conducting
Applied music, principal area: 4 hours		
Secondary area: 2 hours		
Music ensembles: 2 hours		
(Minors must complete Level II 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	1314	Music Theory II
MUSIC	3353	History of Music I
MUSIC	3403	History of Music II
MUSIC	3151	Choral Conducting
MUSIC	3101	Instrumental Conducting
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
ASTRO	4012	Current Topics in Astronomy

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 4613 Civil Rights/Liberties

**International Relations Concentration:**

POLSC 3163 Principles 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 Systems

**Public Administration & Public Policy Concentration:**

POLSC 3363 Public Admin. Theory & Practice

POLSC 4403 Public Policy Formation

POLSC 4933 Government Internship

Total ..... 18

**SOCIAL SCIENCE (Pre-Law) CODE 169**

(For students not majoring in Political Science)

**Required Courses**

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 2503 Criminal Justice Administration

CRMJS 3243 Comparative Criminal Justice Systems

CRMJS 4143 Critical Issues in Criminal Justice

Total ..... 18

**SPANISH CODE 180**

Required Courses ..... 18

SPAN 1154 Elementary Spanish II

SPAN 2053 Intermediate Spanish I

SPAN 2153 Intermediate Spanish II

SPAN 3553 Hispanic Life and Culture

SPAN 3652 Intermediate Spanish Conversation

SPAN 3753 Readings in Spanish

Electives ..... 2-3

SPAN 3853 Spanish Composition

SPAN 4012/3 Seminar in Spanish

SPAN 4553 Spanish Study Abroad

SPAN 4923 Teachers' Course in World Languages

Total ..... 20-21

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



# **COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES**

## **MINOR PROGRAMS OF STUDY**

### **SCHOOL OF ALLIED HEALTH SCIENCES**

Health Care Administration

Health Care Administration Minor for HIM

Health Care Administration Minor for Athletic Trainers

### **SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION**

Psychology

Alcohol and Chemical Dependency Counseling

Child Development Psychology

Industrial/Organizational Psychology

Park Law Enforcement

Parks and Recreation Management

Social Work

### **SCHOOL OF BUSINESS**

Accounting

Finance

General Business

Management

Marketing

### **SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY**

Computer Science

Computer Technology

Drafting

Electronics

General Technology

# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF ALLIED HEALTH SCIENCES

## HEALTH CARE ADMINISTRATION (Allied Health Sciences Minor)

CODE 550

Available for majors in Business, Social Work, Psychology, Gerontology, and Recreational Leadership, and majors other than HIM and Athletic Training.

Required Courses .....14

ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Care Insti
ALHLT	3963	Health Care Administration OR
ALHLT	4043	Medicolegal Concepts
ALHLT	3971	Health Care Internship
BIOL	2714	Human Anatomy & Physiology

Electives ..... 4-6

(Approved electives may include, but are not limited to, the following listed courses, which are not already counted towards major.)

ALHLT	1401	Allied Health Careers
ALHLT	2442	Medical Terminology
ALHLT	3052	Advanced Medical Terminology I
ALHLT	3072	Advanced Medical Terminology II
ALHLT	4001-2	Individual Studies in Allied Health
ALHLT	4112	Quality Improvement
ALHLT	4355	Microbiology
ALHLT	4063-73	Pathophysiology I and/or II
ALHLT	3043	Health Statistics

Total ..... 18 - 20

## HEALTH CARE ADMINISTRATION MINOR FOR HEALTH INFORMATION MANAGEMENT

CODE 550

Required Courses ..... 18

ALHLT	1401	Allied Health Careers
BIOL	2714	Human Anatomy & Physiology*
ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Care Insti
ALHLT	3963	Health Care Administration
ALHLT	3971	Health Care Internship
ALHLT	4043	Medicolegal Concepts

\*Must be completed prior to entering professional program

Total ..... 18

## HEALTH CARE ADMINISTRATION MINOR FOR ATHLETIC TRAINERS

CODE 550

Required Courses ..... 20

ALHLT	1401	Allied Health Careers
BIOL	3704	Human Anatomy
BIOL	3904	Human Physiology <b>OR</b>
BIOL	2714	Human Anatomy and Physiology
ALHLT	3933	Management of Health Care Insti
ALHLT	2442	Medical Terminology
ALHLT	3193	Health Care Delivery
ALHLT	3963	Health Care Administration
<b>OR</b> ALHLT 4043 Medicolegal Concepts		

Total ..... 20

# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## PSYCHOLOGY CODE 160

Required Courses .....	3
PSYCH 2423 Social Psychology .....	
Electives .....	17
PSYCH 2413 Advanced General Psychology .....	
PSYCH 2433 Psychological Statistics .....	
PSYCH 3201-4 Contemporary Problems in Psychology .....	
PSYCH 3213 Developmental Psychology .....	
PSYCH 3224 Research Methods .....	
PSYCH 3233 Learning and Cognition .....	
PSYCH 3243 Cross-Cultural Psychology .....	
PSYCH 3253 Psychological Tests .....	
PSYCH 3323 Abnormal Psychology .....	
PSYCH 3333 Behavior Management .....	
PSYCH 3363 Psychology of Personality .....	
PSYCH 3503 Industrial and Organizational Psychology .....	
PSYCH 4011-4 Seminar in Psychology .....	
PSYCH 4113 Issues in Chemical Dependency Treatment .....	
PSYCH 4123 Theories and Principles of Psychotherapy .....	
PSYCH 4203 Psychology of Women .....	
PSYCH 4223 Media & Mental Illness .....	
PSYCH 4313 Introduction to Clinical Psychology .....	
PSYCH 4333 Physiological Psychology .....	
PSYCH 4371-4 Psychological Research .....	
PSYCH 4533 Language Development .....	
Total .....	20

### PSYCHOLOGY MINOR IN ALCOHOL AND CHEMICAL DEPENDENCY COUNSELING Admission and Retention

Students interested in working toward a minor in Alcohol and Chemical Dependency Counseling must meet the following admission requirements:

1. Have completed 30 semester hours of college credit.
2. Have a grade of "C" or better in all prerequisite required and elective courses.

#### Progression and Retention Standards

In addition to the above stated admission requirements, the student, in order to progress and be retained in the minor program, must meet the following requirements:

1. Maintain a grade of "C" or better in all required and elective courses.
2. Display responsible attitudes and behavior regarding alcohol and drugs.

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 or minors in Psychology, Social Work, 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 .....	16
PHARM 2202 Drugs in Society .....	
*PSYCH 3323 Abnormal Psychology .....	
*PSYCH 4113 Issues in Chemical Dependency Treatment .....	
*PSYCH 4123 Theories & Principles of Psychotherapy .....	
PHARM 4602 Substance Abuse & Addiction .....	
SOCWK 2503 Intro to Social Work .....	
Electives .....	6
PSYCH 3203 Contemporary Problems: Mental Health .....	
PSYCH 3333 Behavior Management .....	
ALHLT 4093 Epidemiology .....	
PSYCH 3243 Cross-Cultural Psychology .....	
PSYCH 4313 Introduction to Clinical Psychology .....	

Total ..... 22  
\*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 3453 Educational Psychology (Elementary) .....	
OR EDPSY 3653 Educational Psych (Secondary) .....	
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

## INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY CODE 164

Prerequisites (One of the Following Courses) .....	3
PSYCH 2433 Psychological Statistics .....	
ECONO 2463 Business Statistics .....	
MATH 3413 Statistical Methods I .....	
SOCSC 4853 Statistics for Social Sciences .....	
Required Classes .....	12
PSYCH 3253 Psychological Tests .....	
PSYCH 3363 Psychology of Personality .....	
PSYCH 3503 Industrial/Organizational Psychology .....	
MNGMT 3333 Personnel/Human Resource Management .....	

Electives .....	9
PSYCH 2423 Social Psychology ( <i>Recommended</i> ) .....	
PSYCH 3243 Cross-Cultural Psychology .....	
PSYCH 3333 Behavior Management .....	
PSYCH 4013 Seminar In Psychology (Applied Psych) .....	
MNGMT 3233 Management .....	
MRKTG 3143 Principles of Marketing .....	
Total .....	24

**PARKS AND RECREATION  
MANAGEMENT****CODE 168**

Required Courses .....			16
PRM	2102	Foundations of Parks and Recreation	
PRM	3663	Recreation Management	
PRM	4993	Internship in Professional Recreation	

Choose from the following courses to complete the 16 hour required block:

PRM	3702	Recreational Areas and Facilities Management
PRM	4163	Community Recreation
PRM	4663	Outdoor Recreation
PRM	4773	Natural Resource Recreation Management

**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	
PRM	3171	Lifeguard Instructor	

Fitness Specialization .....			5-6
HPE	2502	Care and Prevention of Athletic Injury	
HPE	3443	Kinesiology and Anatomy	
HPE	4233	Exercise Physiology	

Outdoor Recreation Specialization .....			5-6
PRM	3113	Sailing, Canoeing, Hiking and Climbing	
PRM	3122	Wilderness First Aid	
PRM	3423	Ropes Course Facilitation	
PRM	3452	Advanced Ropes	

Park 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	4231	Custody and Control	
PRM	4241	Firearm Safety	

Sport and Athletic Management Specialization .....			6
HPE	2242	Sports Officiating	
HPE	4052	Sociology of Sport	
HPE	4063	Legal Aspects of Physical Education, Recreation and Athletics	
HPE	4122	Organization and Administration of Athletics	
HPE	4222	Organization and Administration of Intramural Sports	
PRM	4502	Rodeo Management	

Sport and Recreation Activity Specialization .....			6
HPE	1932	Techniques Applied to Gymnastics, Fitness, and Aquatics	
HPE	1942	Techniques Applied to Individual Sports	
HPE	1952	Techniques Applied to Team Sports	
PRM	3432	Ropes Course Facilitation	
Total .....			21-22

**PARK LAW ENFORCEMENT****CODE 161**

Required Courses .....			21-22
PRM	2102	Foundations of Parks and Recreation	
PRM	3663	Recreation Management	
PRM	4132	Wilderness First Aid	
PRM	4201	The Park Ranger	
PRM	4663	Outdoor Recreation	
PRM	4773	Natural Resource Recreation Management	
PRM	4993	Internship in Professional Park Law Enforcement (120 hours)	

Choose four to five hours from the following courses ..... 4-5

PRM	3161	Lifeguarding
PRM	3441	High Angle Rescue
<b>OR</b> PRM 3442		Advanced Ropes
PRM	4211	Game and Fish Law
PRM	4221	Small Craft SafetyC
PRM	4231	Custody and Control
PRM	4241	Firearm Safety

**SOCIAL WORK****CODE 170**

Required Courses .....			18
SOCWK	2503	Introduction to Social Work	
SOCWK	3263	Human Behavior & Social Envrnmnt I	
SOCWK	3273	Human Behavior & Social Envrnmnt II	
SOCWK	3503	Social Welfare Policy and Services	
SOCWK	4603	Micro Systems Practice	
SOCWK	4613	Small Group Practice	
Electives in Social Work .....			3
Total .....			21

# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BUSINESS

(Limited to students with a major outside the School of Business)

## ACCOUNTING CODE 202

Required Courses ..... 18

ACCTG	2213	Principles of Accounting I
ACCTG	2313	Principles of Accounting II
ACCTG	3313	Intermediate Accounting I
ACCTG	3523	Income Tax Accounting I
ACCTG	3713	Cost Accounting

Accounting Elective (three hours)

Total ..... 18

## FINANCE CODE 206

Required Courses ..... 18

ACCTG	2213	Principles of Accounting I
ACCTG	2313	Principles of Accounting II
FINAN	3343	Business Finance

3000-4000 Level Electives in Finance (six hours)

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Math above College Algebra or Computer Science above 1022 (three hours).

Total ..... 18

## GENERAL BUSINESS CODE 217

Required Courses ..... 18

ACCTG	2213	Principles of Accounting I
ACCTG	2313	Principles of Accounting II
ECONO	2263	Introduction to Macroeconomics
ECONO	2363	Introduction to Microeconomics

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Marketing, or Management (six hours).

Total ..... 18

## MANAGEMENT CODE 213

Required Courses ..... 18

MNGMT	3233	Management
MNGMT	3333	Human Resource Management
MNGMT	3433	Administrative Theory
MNGMT	3533	Organizational Behavior

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Marketing, or Management (six hours).

Total ..... 18

## MARKETING CODE 214

Required Courses ..... 18

MRKTG	3143	Principles of Marketing
MRKTG	3243	Promotional Strategy
MRKTG	3443	Consumer Behavior

3000-4000 Level Electives from Marketing (six hours), Accounting, General Business, Economics, Finance, or Management (three hours)

Total ..... 18

# MINOR PROGRAMS OF STUDY IN THE SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

## COMPUTER SCIENCE CODE 110

Required Courses .....	9
COMSC 1033 Computer Science I	
COMSC 1053 Computer Science II	
COMSC 3013 Computer Organization	
<b>OR</b> COMSC 3033 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 .....	3
TECH 3873 Applied Electronics	
Electives .....	15
TECH 3833 Communication Electronics	
TECH 3843 Telecommunications	
TECH 4813 Networking Electronics	
TECH 4823 Digital Electronics	
TECH 4833 Microcomputer Electronics	
TECH 4000 Extra-Institutional Learning	
Any computer network systems certification such as Novell	
Certified Netware Engineer (CNE), Cisco Certified Network	
Engineer, or Microsoft Certified Systems Engineer (MCSE), etc.	
Total .....	18

## DRAFTING CODE 111

Required courses .....	12
TECH 1203 Engineering Drafting	
TECH 3203 Computer Aided Drafting I	
TECH 3263 Machine Drafting I	
TECH 4243 Computer Aided Drafting II	
Electives approved by department .....	6
Total .....	18

## ELECTRONICS CODE 128

Required Courses .....	9
TECH 1813 Basic Electronics	
TECH 2813 Basic Electronics II	
TECH 3823 Industrial Electronics	
Electives .....	9
TECH 3833 Communications Electronics	
TECH 3843 Telecommunications	
TECH 3853 Electronic Instrumentation	
TECH 3863 Electronic Trouble Shooting	
TECH 4823 Digital Electronics	
TECH 4833 Microcomputer Electronics	
TECH 4843 Programmable Controllers	
Total .....	18

## GENERAL TECHNOLOGY CODE 130

Required Courses .....	15
TECH 1203 Engineering Drafting	
TECH 1313 Wood Materials and Processes	
TECH 2513 Fabrication Processes I	
TECH 3613 Power Systems	
TECH 3873 Applied Electronics	
Electives (Technology 3000/4000 level) .....	3
Total .....	18

## **PRE-PROFESSIONAL PROGRAMS OF STUDY**

Pre-Dental Hygiene

Pre-Dentistry

Pre-Engineering

Pre-Health Information Management

Pre-Law

Pre-Medical Technology

Pre-Medicine

Pre-Nursing

Pre-Occupational Therapy and Pre-Occupational Therapy Assistant

Pre-Optometry

Pre-Pharmacy

Pre-Physical Therapy and Pre-Physical Therapy Assistant

Pre-Physician Associate/Assistant

Pre- Communication Sciences & Disorders

Pre- Nutritional Sciences/Clinical Dietetics

Pre-Radiologic Technology/Pre-Radiology

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 advisers will help plan a course of study to fit any particular need.

## 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 60 semester hours of pre-dental hygiene course 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.

Associate degrees of Applied Science in Dental Hygiene are also available. 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 School of Allied Health Sciences.

## PRE-DENTISTRY

Although a minimum of two years of college work (60 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 2.0 (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.

A student who plans a career in dentistry should see the Pre-Medical/Pre-Dental Advisor in the Department of Biological Sciences or the School 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 Allied Health Sciences. 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 during the fall semester and due in early January. Program interviews are held in February. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.25 in these courses. In addition, the student must complete 2442 Medical Terminology and 2714 Human Anatomy and Physiology. Medical Terminology is offered each fall and spring semester. Human Anatomy & Physiology is offered only in the fall semester. Students interested in this career should contact the Health Information Management Advisor in the School of Allied Health Sciences.

## PRE-LAW

All accredited schools require a baccalaureate degree as a prerequisite to admission. There are generally no specific requirements as to subjects or majors selected.

Essentially, there are three requirements for admission to law school: (1) a bachelor's degree; (2) a satisfactory score on the Law School Admissions Test (LSAT) administered by Educational Testing Service, Princeton, New Jersey; and (3) a satisfactory grade point average. Some schools require one or more letters of recommendation, a short essay on one's objectives in the study of law, or a personal interview. Minimum LSAT scores and GPA vary from school to school and from year to year.



Neither the nation's law schools nor the American Bar Association requires or suggests any particular undergraduate course of study for admission to law school. However, the program chosen should have substantial academic content and should provide a broad cultural background, habits of thoroughness, intellectual curiosity, scholarship, and the ability to organize materials and to communicate in both oral and written forms. Courses taken should present a variety of reading assignments from well-written sources, well-directed class discussion, and ample opportunities for the preparation and criticism of written and oral reports, independent search, and essay examinations. Any major which meets these standards is recommended for a pre-legal education.

Some of the more common choices made by pre-law students are in the social sciences, such as Political Science and History; in Business, such as Accounting, Business Administration and Economics; or in the liberal arts, such as English and Speech.

**Regardless of major,** courses in judicial process, constitutional law, business law, accounting, sociology, and English are recommended.

Both Political Science and Business provide special advisers and services for pre-law students. It is suggested that interested students contact the pre-law advisers in these fields. The Department of Social Sciences offers a social science (pre-law) minor described elsewhere in this catalog.

#### **PRE-MEDICAL TECHNOLOGY**

Pre-Medical Technology students must fulfill the general education and the Pre-Medical Technology program requirements and have a minimum of 90 college hours (3 + 1 program). Students may also elect to complete a B.S. degree in Health Sciences (120 hours, 4 + 1 program). Students do not have to be admitted to the University-based Pre-Medical Technology program but should seek advisement from the Medical Technology faculty in the School of Allied Health Sciences.

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

Acceptance of the student for 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 2.0, but some programs require an 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 Clinical 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.

Interested students should contact the School of Allied Health Sciences.

#### **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 School of Health Sciences. Applicants should initiate a dialogue with the Chairman of the Pre-Medical Advisory Committee as soon as possible following matriculation at SWOSU.

Interested students should contact a Pre-Medical advisor in the Department of Biological Sciences or the School 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, character references, physical and emotional stamina needed to perform the demands of nursing, personal objectives, and motivation are among other factors considered.

Each applicant must have a minimum grade average of 2.25 (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 being February 1 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-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.

Students interested in a career in optometry should see the Pre-Optometry Advisor in the Department of Biological Sciences or the School 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.

### **PRE-PHYSICAL THERAPIST ASSISTANT & PRE-PHYSICAL THERAPY**

Students entering Southwestern Oklahoma State University with an interest in Physical Therapy have the option of Pre-Physical Therapist Assistant and Pre-Physical Therapy.

The first option is the **Pre-Physical Therapist Assistant Program** which is an **Associate of Applied Science Degree in Physical Therapist Assistant**. This program is offered at SWOSU and the Caddo Kiowa Technology Center at Fort Cobb, OK. It is a two to three year program, which requires 36 prerequisite credit hours at SWOSU and 29 professional clinical hours at Caddo Kiowa Technology Center. Prerequisite requirements and application information may be obtained from the School of Allied Health Sciences.

Second is the **Pre-Physical Therapy Program**, which leads to a **Masters Degree in Physical Therapy** at the University of Oklahoma Health Sciences Center or the Physical Therapy School of your choice. The minimum requirements for admission are 90 credit hours of 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 Sylvan testing center. The professional Physical Therapy Masters 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 Master's 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 School 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 prescribed prerequisite coursework and completion of a minimum of ninety (90) semester hours from an accredited university.
2. A minimum GPA of 2.75 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 School of Allied Health Sciences.

### **PRE-OCCUPATIONAL THERAPY ASSISTANT & PRE-OCCUPATIONAL THERAPY**

Students entering Southwestern Oklahoma State University with an interest in **Occupational Therapy** have the option of **Pre-Occupational Therapy Assistant** and **Pre-Occupational Therapy**.

The first option is the **Pre-Occupational Therapy Assistant** program which results in an **Associate of Applied Science Degree in Occupational Therapy Assistant**. This program is offered at SWOSU and the Caddo Kiowa Technology Center at Fort Cobb, OK. It is a two to three year program which requires 34 prerequisite credit hours at SWOSU and 42 professional and clinical hours at Caddo Kiowa Technology Center, Fort Cobb, OK. Prerequisite requirements and application information may be obtained from the School of Allied Health Sciences.

Second, is the **Occupational Therapy Masters Level Program** at the University of Oklahoma Health Sciences

Center or the Occupational Therapy School of your 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 2.75 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 School of Allied Health Sciences.

#### **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 School of Allied Health Sciences for information on the prerequisites and application procedures.

#### **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 60 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 School of Allied Health Sciences for more information on required courses and application information.

#### **PRE-PROFESSIONAL RADIOLOGIC TECHNOLOGY & PRE-RADIOLOGY**

Students that are interested in **Radiology** have two options at Southwestern. First, there is an Associate of Applied Science degree in **Radiologic Technology**. The program at SWOSU-Sayre can be completed in two to three years and is competitive. Application needs to be made before the end of April.

Second, there is a **Pre-Radiology** 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 the Radiology 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 School of Allied Health Sciences for either of these programs.

#### **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 adviser 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. These courses are marked by an asterisk \* in the class schedule.

## 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. **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 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 in to 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.

### 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**

### 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 1063 UNITED STATES HISTORY

A survey of American history from colonial times to the present. **F, S, SU**

### HPE 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 story, poem, and drama. **F, S, SU**

**MATH 1143 MATH CONCEPTS**

Students will learn to speak and write mathematics with precision, clarity, and organization, acquire basic mathematical literacy, and be able to apply mathematical concepts. **F, S, SU**

**MATH 1513 COLLEGE ALGEBRA\*\*\***

A fundamental course including solutions of equations, inequalities, systems of equations, logarithms, conic sections and theory of numbers. **Prerequisite: Departmental approval or placement by examination. F, S, SU**

**MUSIC 1012 INTRODUCTION TO MUSIC I**

Introduction to the history of music and musical styles. **F, S, SU**

**PHILO 1452 INTRODUCTION TO PHILOSOPHY**

A survey of major philosophers and their respective contributions to philosophy, from ancient Greece to the present, with emphasis on the Western World. **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 1514 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**

\* *Descriptions for World Language courses are listed under the Language Arts Department.*

\*\* *Or a higher numbered chemistry course.*

\*\*\* *Or a higher numbered math course.*

# GENERAL STUDY COURSES

## **GSTDY 0121 KEYBOARDING**

Introduction to and mastery of alphabetic, numeric and function keys on computers. Course is designed for students who cannot keyboard.

## **GSTDY 1001 FRESHMAN ORIENTATION**

A course designed for beginning freshman students to assist them in becoming familiar with the campus, university regulations, and course offerings.

## **GSTDY 1122 NEW TESTAMENT SURVEY**

A beginning course briefly touching all of the New Testament books with a general geographic, sociological, and literary background.

## **GSTDY 1323 OLD TESTAMENT SURVEY**

A beginning course briefly touching all the Old Testament books with a general geographic, sociological, and literary background.

## **GSTDY 2022 LIFE AND TEACHINGS OF JESUS**

A course surveying the life of Jesus and emphasizing the nature and methods of his teachings.

## **GSTDY 2032 LIFE AND TEACHINGS OF PAUL**

The impact of the Apostle Paul upon thought and life through a study of the book of Acts and his New Testament letters.

# COMPUTER ASSISTED INSTRUCTION

## **GSTDY 1031A BAS WINDOWS XP**

Self-paced study in using Basic Windows XP.

## **GSTDY 1041A BAS PPNT FOR TEACH 2000**

Self-paced study for using Basic PowerPoint for Teachers 2000.

## **GSTDY 1051A WORD 2002 I**

Self-paced study for using Word 2002 I.

## **GSTDY 1061A WORD 2002 II**

Self-paced study for using Word 2002 II.

## **GSTDY 1071A EXCEL 2002 I**

Self-paced study for using Excel 2002 I

## **GSTDY 1081A EXCEL 2002 II**

Self-paced study for using Excel 2002 II.

## **GSTDY 1091A ACCESS 2002 I**

Self-paced study for using Access 2002 I.

## **GSTDY 1101A ACCESS 2002 II**

Self-paced study for using Access 2002 II.

## **GSTDY 1111A POWERPOINT 2002 I**

Self-paced study for using PowerPoint 2002 I

## **GSTDY 1121A POWERPOINT 2002 II**

Self-paced study for using PowerPoint 2002 II.

## **GSTDY 1131A PUBLISHER 2002 I**

Self-paced study for using Publisher 2002 I.

## **GSTDY 1141A PUBLISHER 2002 II**

Self-paced study for using Publisher 2002 II.

## **GSTDY 1161A FRONTPAGE 2002 I**

Self-paced study for using FrontPage 2002 I.

## **GSTDY 1171A FRONTPAGE 2002 II**

Self-paced study for using FrontPage 2002 II.

## **GSTDY 1221A BAS WINDOWS 98**

Self-paced study in using Basic Windows 98.

## **GSTDY 1231A BAS WINDOWS 2000**

Self-paced study in using Basic Windows 2000.

## **GSTDY 1251A BAS WORD 2000**

Self-paced study in using Basic Word 2000.

## **GSTDY 1271A BAS POWERPOINT 2000**

Self-paced study for using Basic PowerPoint 2000.

## **GSTDY 1291A BAS EXCEL 2000**

Self-paced study for using Basic Excel 2000.

## **GSTDY 1321A BAS PPNT FOR TEACH 2002**

Self-paced study for using Basic PowerPoint for Teachers 2002.

## **GSTDY 1371A BAS PHOTOSHOP 7**

Self-paced study for using Basic Photoshop 7.

## **GSTDY 1382A PAGEMAKER 7 I**

Self-paced study for using PageMaker 7 I.

## **GSTDY 1421A BAS ACCESS 2000**

Self-paced study for using Basic Access 2000

## **GSTDY 1441A BAS PUBLISHER 2000**

Self-paced study for using Basic Publisher 2000.

## **GSTDY 1461A BAS NETSCAPE**

Self-paced study for Basic Netscape.

## **GSTDY 1471A BAS INTERNET EXPLORER**

Self-paced study for using Basic Internet Explorer

## **GSTDY 1491A BAS FRONTPAGE 2000**

Self-paced study for using Basic FrontPage 2002.

## **GSTDY 1581A BAS ILLUSTRATOR 10**

Self-paced study for using Basic Illustrator 10.

## **GSTDY 1801A BAS WORD 03**

Self-paced study for using Basic Word 2003.

## **GSTDY 1811A BAS EXCEL 03**

Self-paced study for using Basic Excel 2003.

## **GSTDY 1831A BASIC PPNT FOR EDUC 03**

Self-paced study for using Basic PowerPoint for Educators 2003.

## **GSTDY 1871A BAS ACC FOR ADM 03**

Self-paced study for using Basic Access for Administrators 2003.

## **GSTDY 1901 BAS FRONTPAGE 03**

Self-paced study for using Basic FrontPage 2003

## **GSTDY 1901 BASIC PUBLISHER 03**

Self-paced study for Basic Publisher 2003.

## **GSTDY 1901 BAS MS PROJECT 03**

Self-paced study for using Basic Microsoft Project 2003.

## **GSTDY 1901 BAS MS VISL STU C#**

Self-paced study for using Basic Microsoft Visual Studio in C#.

## **GSTDY 1902 BAS MM FLASH MX 04**

Self-paced study for using Basic Macromedia Flash MX 2004.

**GSTDY 1921 BAS EXCEL ENG&TECH**

Self-paced study for Basic Excel Engineering & Technology.

**GSTDY 1931 INT EXCEL ENG&TECH**

Self-paced study for Intermediate Excel Engineering & Technology.

**GSTDY 2021 ADV EXCEL ENG&TECH**

Self-paced study for Advanced Excel Engineering & Technology.

**GSTDY 2031A INT WINDOWS XP**

Self-paced study in using Intermediate Windows XP.

**GSTDY 2051A WORD 2002 III**

Self-paced study for using Word 2002 III.

**GSTDY 2061A WORD 2002 IV**

Self-paced study for using Word 2002 IV.

**GSTDY 2071A EXCEL 2002 III**

Self-paced study for using Excel 2002 III.

**GSTDY 2081A EXCEL 2002 IV**

Self-paced study for using Excel 2002 IV

**GSTDY 2091A ACCESS 2002 III**

Self-paced study for using Access 2002 III.

**GSTDY 2101A ACCESS 2002 IV**

Self-paced study for using Access 2002 IV.

**GSTDY 2111A POWERPOINT 2002 III**

Self-paced study for using PowerPoint 2002 III.

**GSTDY 2121A POWERPOINT 2002 IV**

Self-paced study for using PowerPoint 2002 IV.

**GSTDY 2131A PUBLISHER 2002 III**

Self-paced study for Publisher 2002 III.

**GSTDY 2141A PUBLISHER 2002 IV**

Self-paced study for Publisher 2002 IV.

**GSTDY 2161A FRONTPAGE 2002 III**

Self-paced study for using FrontPage 2002 III.

**GSTDY 2171A FRONTPAGE 2002 IV**

Self-paced study for using FrontPage 2002 IV.

**GSTDY 2221A INT WINDOWS 98**

Self-paced study in using Intermediate Windows 98.

**GSTDY 2251A INT WORD 2000**

Self-paced study for using Intermediate Word 2000.

**GSTDY 2271A INT POWERPOINT 2000**

Self-paced study for using Intermediate PowerPoint 2000.

**GSTDY 2291A INT EXCEL 2000**

Self-paced study for using Intermediate Excel 2000.

**GSTDY 2331A ADV PPNT FOR TEACH 2002**

Self-paced study for using Advanced PowerPoint for Teachers 2002.

**GSTDY 2371A INT PHOTOSHOP 7**

Self-paced study for using Intermediate Photoshop 7.

**GSTDY 2382A PAGEMAKER 7 II**

Self-paced study for using PageMaker 7 II.

**GSTDY 2391A ADV PHOTOSHOP 7**

Self-paced study for using Advanced Photoshop 7.

**GSTDY 2421A INT ACCESS 2000**

Self-pace for using Intermediate Access 2000.

**GSTDY 2461A INT NETSCAPE**

Self-paced study for Intermediate Netscape.

**GSTDY 2471A INT INTERNET EXPLORER**

Self-paced study for using Intermediate Internet Explorer.

**GSTDY 2491A INT FRONTPAGE 2000**

Self-paced study for using Intermediate FrontPage 2000.

**GSTDY 2581A INT ILLUSTRATOR 10**

Self-paced study for using Intermediate Illustrator 10.

**GSTDY 2651A ADV WORD 2000**

Self-paced study for using Advanced Word 2000.

**GSTDY 2671A ADV POWERPOINT 2000**

Self-paced study for using Advanced PowerPoint 2000.

**GSTDY 2691A ADV EXCEL 2000**

Self-paced study for using Advanced Excel 2000.

**GSTDY 2751A ADV ACCESS 2000**

Self-paced study for using Advanced Access 2000.

**GSTDY 2781A ADV PPNT FOR TEACH 2000**

Self-paced study for using Advanced PowerPoint for Teachers 2000.

**GSTDY 2791A ADV FRONTPAGE 2000**

Self-paced study for using Advanced FrontPage 2000.

**GSTDY 2801A ADV WORD 03**

Self-paced study for using Advanced Word 2003.

**GSTDY 2811A ADV EXCEL 03**

Self-paced study for using Advanced Excel 2003.

**GSTDY 2831A ADV PPNT FOR EDUC 03**

Self-paced study for using Advanced PowerPoint for Educators 2003.

**GSTDY 2841A ADV PUBLISHER 2000**

Self-paced study for using Advanced Publisher 2000.

**GSTDY 2871A ADV ACC FOR ADM 03**

Self-paced study for using Advanced Access for Administrators 2003.

**GSTDY 2901 ADV MS VISL STU C#**

Self-paced study for using Advanced Microsoft Visual Studio in C#.

**GSTDY 2901 ADV PUBLISHER 03**

Self-paced study for Advanced Publisher 2003.

**GSTDY 2901 INT ACC FOR ADM 03**

Self-paced study for using Intermediate Access for Administrators 2003.

**GSTDY 2901 INT EXCEL 03**

Self-paced study for using Intermediate Excel 2003.

**GSTDY 2901 INT MS VISL STU C#**

Self-paced study for using Intermediate Microsoft Visual Studio in C#.

**GSTDY 2901 INT PPNT FOR ED 03**

Self-paced study for using Intermediate PowerPoint for Educators 2003.

**GSTDY 2901 INT PUBLISHER 03**

Self-paced study for Intermediate Publisher 2003.

**GSTDY 2901 INT WORD 03**

Self-paced study for using Intermediate Word 2003.

**GSTDY2902 ADV MM FLASH MX 04**

Self-paced study for using Advanced Macromedia Flash MX 2004.

**GSTDY2902 INT MM FLASH MX 04**

Self-paced study for using Intermediate Macromedia Flash MX 2004.

# 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

### ART 1113 FUNDAMENTALS OF ART

Examination of the basics in art. Foundation laid for future participation in drawing and painting. This is a general education course, not for art majors or minors. **D**

### 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 1661 COMPUTER ASSISTED INSTRUCTION/BASIC MACROMEDIA FLASH 5

Self-paced study in using Basic Macromedia Flash 5. Understanding of graphic arts.

### ART 1213 PERSPECTIVE

An introduction to the essentials of beginning perspective and advanced perspective devices. Both linear and atmospheric perspective are covered. **F**

### ART 1222 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**

### ART 2113 ACRYLIC TECHNIQUES

Beginning level easel painting course focusing on development of student's individual expression in form and color. **F**

### 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. **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. Course work includes the design of 5 period projects. **S**

### ART 2631 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE MACROMEDIA FLASH 5

Self-paced study in using Intermediate Macromedia Flash 5. Understanding of graphic arts.

### ART 3113 WATERCOLOR STUDIO

Study and practice of traditional transparent watercolor technique, and experimentation with contemporary methods. Emphasis on composition, color, process and technique. **FO**

### ART 3153 FIGURE DRAWING

Develop skills of draftsmanship and perception while studying the figure. **FE**

### ART 3213 COMPUTER GRAPHICS

Basic concepts of computer graphics for artists, art teachers and designers. Topics include pixel and object oriented graphics as well as 3-D concepts. Content is designed to provide a functional ability to maintain a graphics Macintosh, control image quality, scanners and printers. **Prerequisite: Art 2133, ART 2143 AND ART 3853. SO**

### 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**

### 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. **SE**

### ART 3483 PRINTMAKING STUDIO

Printmaking by hand transfer and with the press. Composition and personal expression are emphasized. Intaglio and relief methods are explored. **F**

### ART 3513 MEDIA FOR ARTISTS

Instruction in 35 mm slide documentation and black/white photography. Exploration of video and multimedia art is also included. **Prerequisite: ART 2133, ART 2143, and ART 3853. FE**

### 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. **SE**

### 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. **FE**

### 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 2133, ART 2143 and ART 3853. SE**

### ART 3753 LIFE DRAWING

Observational drawing with an emphasis on composition. Various techniques and subjects will be explored. **FO**



**ART 3783 PHOTOGRAPHIC/DIGITAL ILLUSTRATION**

This course will study photographic illustration beginning with the camera and moving to digital images on the computer. Illustration as an expressive form of communication is stressed. Projects will concern composition, lighting, darkroom techniques and computer illustration in Adobe Photoshop. **Prerequisites:** ART 2133, ART 2143, and ART 3853. **FE**

**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 2133, ART 2143, and ART 3853. **SE**

**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. **SO**

**ART 3923 PUBLICATION DESIGN**

Layout and design of various types of publications, including mailers, brochures, catalog, magazine and book design. **Prerequisites:** ART 2133, ART 2143, and ART 3853. **SO**

**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. **SE**

**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 the study of contemporary trends in crafts. **SO**

**ART 4313 PAINTING STUDIO**

An exploration of opaque painting techniques and processes. The development of pictorial form and content is emphasized. **S**

**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. **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. **SO**

**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. **FO**

**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 PACKAGE DESIGN**

Explores problems dealing with three-dimensional design and product identity. Projects include multi-piece product lines and site-specific displays. **Prerequisites:** ART 2133, ART 2143 and ART 3853. **FO**

**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, SU**

**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**

**ART 5001-4 INDIVIDUAL STUDY IN ART (TOPIC)**

Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**ART 5011-4 SEMINAR IN ART (TOPIC)**

Group study of specified topic in art for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**ART 5651 GRADUATE EXHIBIT**

Students will prepare and present a body of work produced as a graduate. Emphasis will be on professionalism in presentation as well as artwork selected.

**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. **F, S, SU**

**BIOL 1054 PRINCIPLES OF BIOLOGY**

An introduction to major biological principles needed to understand the functioning of all organisms and the living world. Topics include biologically important molecules, cellular organization and function, energetics, basic genetics, gene functions, and evolution. The investigative laboratory introduces important techniques and methodologies used by modern biologists and students to develop problem solving skills. Intended for Biology, Pre-Professional, and other science majors. **F, S**

**BIOL 2022 BIOLOGICAL ORIENTATION**

This course will introduce students to the resources and techniques critical to curricula and careers in the biological sciences including departmental personnel and facilities; career and degree planning; computer and library resources and search techniques; reading, writing, and interpretive skills; and experimental design and data analysis. **For Biology or Natural Science Education majors only. F, S**

**BIOL 2204 INTRODUCTORY ZOOLOGY**

The diversity of the protist and animal kingdoms will be examined with respect to their evolution, classification, and the comparative morphology, physiology, and behavior of major phyla. **Prerequisite: BIOL 1054. Recommended: BIOL 2022 F, S**

**BIOL 2404 INTRODUCTORY BOTANY**

This course is a study of the structure, physiology, and ecology of higher plants and also includes a survey of the plant kingdom. **Prerequisite: BIOL 1054. F, S**

**BIOL 2714 HUMAN ANATOMY AND PHYSIOLOGY**

A study of the principles of the normal structure and function of the human body. Designed for students who do not require two (2) courses in anatomy and physiology. **Prerequisite: BIOL 1004 or BIOL 1054. 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. **F, S**

**BIOL 3254 GENETICS**

This course will present an introduction to transmission genetics and molecular genetics. Mendelian genetics and its extensions, linkage analysis in eukaryotes, and genetic analysis of bacteria and bacteriophages make up the transmission genetics core. The structure and function of DNA, and how it is replicated as well as how genes are transcribed, translated, and regulated, make up the molecular genetics core. **Prerequisites: BIOL 1054. F, S**

**BIOL 3304 AQUATIC BIOLOGY**

This course examines freshwater ecosystems (rivers and lakes) with respect to their physical, chemical, and biological structure and ecological relationships. The laboratory involves extensive field studies of local aquatic habitats. Emphasis is placed on collection methods and analytical techniques used in limnological studies. **Prerequisites: BIOL 1054, CHEM 1203, 1252, 1303, 1352. Recommended: BIOL 2204 and 2404, or permission of Instructor. FE**

**BIOL 3403 PLANT MORPHOLOGY**

A study of the structure of both living and fossil vascular plants. **Prerequisites: BIOL 1054 and 2404. Recommended: BIOL 3254. FO**

**BIOL 3504 NATURAL HISTORY**

This course will examine natural history and biodiversity of vertebrates with emphasis on principles of evolution, systematics, ecology, and behavior and the development of field biology techniques for the study of Oklahoma communities. Laboratory includes extended studies conducted on one of three departmental field areas and 2-3 required weekend field trips. **Prerequisites: BIOL 1054, 2022, 2204, and 2404. FO**

**BIOL 3604 GENERAL ENTOMOLOGY**

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. **Prerequisites: BIOL 1054 and 2204. Recommended: Junior or Senior Standing FE**

**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. **Prerequisites: BIOL 1004 or 1054, or permission of instructor. Recommended: BIOL 2204, 3012. F, S, SU**

**BIOL 3804 PLANT PHYSIOLOGY**

An introduction to the function of the plant body. Topics include cellular structure and metabolism, water balance, photosynthesis, respiration and hormonal regulation. Laboratory experience emphasizes standard techniques and data analysis. **Prerequisites: BIOL 1054, 2404; CHEM 1203, 1252 or permission of instructor. Recommended: CHEM 1303 and 1352. SE**

**BIOL 3904 HUMAN PHYSIOLOGY**

A study of the normal function of the human body. Strong emphasis is placed on homeostasis. **Prerequisites: BIOL 1004 or 1054. F, S**

**BIOL 4001-4 INDEPENDENT STUDY IN BIOLOGICAL SCIENCES (TOPIC)**

Independent study of a specified topic for undergraduate students. Credit one to four hours. **F, S, SU**

**BIOL 4010-4 SEMINAR IN BIOLOGY (TOPIC)**

Group study of specified topic for undergraduate students. Credit one to four semester hours. **F, S, SU**

**BIOL 4154 DEVELOPMENTAL BIOLOGY**

A study of basic embryological processes of vertebrates from gametogenesis through organogenesis. **Prerequisites: BIOL 1054 and 2204. Recommended: BIOL 3254 SO**

**BIOL 4284 ANIMAL PARASITOLOGY**

A study of the animal parasites of man and the higher vertebrates; their life cycles; distribution, diagnosis, prevention and control measures. **Prerequisites: BIOL 1004 or 1054. Recommended: 2204, 2714 or 3704, and 3904. S**

**BIOL 4314 ENVIRONMENTAL BIOLOGY**

The study of anthropogenic (man-made) effects of pollution on the environment, including the effects of plant and animal life as well as humans. **Prerequisites: BIOL 1054; CHEM 1203, 1252, or permission of instructor. FO**

**BIOL 4454 PLANT TAXONOMY**

A study of the history, literature, and principles of plant taxonomy, with emphasis on the flowering plant flora of Oklahoma. **Prerequisites: BIOL 1054 and 2404. Recommended: BIOL 3254. SE**

**BIOL 4604 GENERAL ECOLOGY**

This course will examine the interactions among organisms and the interactions between organisms and their environment that affect distribution and abundance. **Prerequisite: BIOL 1054. Recommended: BIOL 2204, 2404, 3254; Junior or Senior standing SO**

**BIOL 4622 ECONOMICALLY IMPORTANT PLANTS**

A brief 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. **Prerequisites:** BIOL 1054 and 2404. **Recommended:** BIOL 3254. FE

**BIOL 4901 SENIOR SEMINAR IN BIOLOGICAL SCIENCES**

Students in this departmental capstone course will demonstrate their knowledge of biology and research. In addition, students will write and present a review paper on some aspect of biological science. **Prerequisites:** BIOL 1054, 2022, 2204, 2404, 3254 and senior standing. F, S

**BIOL 4933 CELLULAR PHYSIOLOGY**

A study of the fundamental life processes at the cellular level. **Prerequisites:** BIOL 1004 or 1054. **Recommended:** CHEM 3013. FO

**BIOL 4964 MOLECULAR BIOLOGY**

This course will examine the structure and function of DNA, RNA, and proteins at the molecular level. The laboratory experiments will incorporate a variety of techniques that are routinely used in genetic engineering. **Prerequisites:** BIOL 1054 and 3254. **Recommended:** Junior or Senior standing. SO

**BIOL 4974 HISTOLOGY**

A study of the microanatomy and functional aspects of normal animal tissues. **Prerequisites:** BIOL 1004 or 1054. **Recommended:** BIOL 3704 and 3904. SE

**BIOL 5001-4 INDIVIDUAL STUDIES IN BIOLOGY (TOPIC)**

Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. F, S, SU

**BIOL 5011-4 SEMINAR IN BIOLOGY (TOPIC)**

Group study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate program. F, S, SU

**GULF COAST RESEARCH LABORATORY  
COURSES (SUMMER)  
Ocean Springs, Mississippi**

**BIOL 2133 MARINE SCIENCE I: OCEANOGRAPHY**

This introductory course in oceanography integrates chemical, geological, and physical oceanography to provide a multidisciplinary approach to the fundamentals of oceanography. **Prerequisites:** Math 1613 or Math 1645.

**BIOL 3022 MARINE SCIENCE FOR ELEMENTARY TEACHERS**

A course designed to enable students, particularly in-service teachers, to establish studies in the marine sciences in local school systems at all grade levels.

**BIOL 3112 SALT MARSH PLANT ECOLOGY**

Provides basic and advanced information that will enable the student to become competent in understanding the complex nature of salt marshes. Emphasis is on flowering plants of local marshes. Plant species composing tidal marsh are identified. Vegetational structure and distribution of salt marshes are covered. **Prerequisites:** BIOL 2404 or consent of instructor.

**BIOL 3122 MARINE FISHERIES MANAGEMENT**

An overview of practical marine fishery management problems. **Prerequisites:** 16 hours of biological sciences including BIOL 2204, 2404 and a course in invertebrate zoology.

**BIOL 3142 MARINE SCIENCE FOR TEACHERS**

A course designed to introduce students, particularly in-service teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels. Course includes information on resources available to teachers. **Prerequisite:** biology background or consent of instructor.

**BIOL 3153 MARINE ECOLOGY**

A consideration of the relationships of marine organisms to their environment. Includes the effects of temperature, salinity, light, nutrient concentration, currents, and food on the abundance and distribution of marine organisms. For graduate or undergraduate credit. **Prerequisites:** 16 hours of biological sciences including BIOL 2204, 2404 and a course in invertebrate zoology.

**BIOL 3313 MARINE SCIENCE II: MARINE BIOLOGY**

A general introduction to marine biology with emphasis on local fauna and flora. **Prerequisites:** BIOL 2204, 2404 or 8 hours of biological sciences.

**BIOL 3612 COASTAL MARINE GEOLOGY**

A study of inshore and near shore geological processes, sedimentation patterns, and land form development. **Prerequisites:** 6 hours undergraduate geology

**BIOL 4001-4 SPECIAL PROBLEMS IN MARINE SCIENCE**

Independent study of specified marine biology topic for undergraduate students. Credit one to four semester hours. A study of the parasites of marine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships. Lecture, laboratory and field work are included. **Prerequisite:** permission of instructor.

**BIOL 4011-4 SPECIAL TOPICS IN MARINE SCIENCE (UNDERGRADUATE)**

The course is to provide the opportunity for students to obtain credit for study in areas in which the laboratory offers no formal course.

**BIOL 4113 PARASITES OF MARINE ANIMALS**

A study of the parasites of marine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships. Lecture, laboratory and field work are included. **Prerequisite:** BIOL 4284 or permission of instructor.

**BIOL 4122 MARINE PHYCOLOGY**

A survey, based on local examples, of the principal groups of marine algae and marine flowering plants, treating structure, reproduction, distribution, identification and ecology. **Prerequisite:** 10 hours of biological sciences including BIOL 2404.

**BIOL 4133 MARINE MICROBIOLOGY**

A study of marine microorganisms and their role in the overall ecology of the oceans and estuaries. To train students in the use of sampling equipment, processing of samples and laboratory techniques useful in studying marine microorganisms. **Prerequisite:** ALHLT 4355 and ALHLT 4523 or permission of instructor.

**BIOL 4143 MARINE INVERTEBRATE ZOOLOGY**

A concentrated study of the important free-living marine and estuarine invertebrates of the Mississippi Sound and adjacent shelf of the northeastern Gulf of Mexico. Emphasis on structure, classification, phylogenetic relationships, larval development and functional processes. **Prerequisites:** BIOL 2204 and a course in invertebrate zoology.

**BIOL 4153 COASTAL ECOLOGY FOR TEACHERS**

The purpose of this course is to provide teachers with a background in basic coastal ecology, thereby allowing the augmentation and infusion of interdisciplinary concepts involving the environment and its conservation. **Prerequisites:** basic science courses as required for education.

**BIOL 4162 EARLY LIFE HISTORY OF MARINE FISHES**

Reproductive strategies and early developmental processes of marine fishes. Includes discussion of temporal and spatial distribution patterns, population dynamics and ecological interactions of fish eggs and larvae; role of early stages of fishes in fisheries oceanography, marine ecology, and systematics; methods of sampling and identifying fish eggs and larvae; data quantification and analysis; rearing experiments; and techniques for studying larval fish dynamics. **Prerequisites:** courses in ichthyology, fisheries biology, ecology and/or consent of instructor.

**BIOL 4172 FAUNA AND FAUNISTIC ECOLOGY OF TIDAL MARSHES, SEAGRASSES, AND SAND BEACHES**

Primarily a field survey course dealing with the taxonomy, distribution, trophic relationships, reproductive strategies, and adaptations of animals commonly found associated with tidal marshes, seagrasses, and sand beaches with emphasis on those occurring in the northern Gulf of Mexico. Abiotic and biotic factors controlling or limiting the occurrence and distribution of fauna in these three habitat types will be compared and contrasted. **Prerequisites:** 16 semester hours of biological sciences and junior standing or permission of instructor.

**BIOL 4183 MARINE ICHTHYOLOGY**

General study of the marine Chordata, including lower groups and the mammals and birds, with most emphasis on the fishes. **Prerequisites:** 16 hours zoology including a course in comparative anatomy or permission of instructor.

**BIOL 4212 COASTAL VEGETATION**

A study of general and specific aspects of coastal vegetation with emphasis on local examples. **Prerequisites:** 10 hours of biological sciences including BIOL 2404.

**BIOL 4233 ENVIRONMENTAL ESTUARINE CHEMISTRY**

This course is a study of the sources, reactions, transport, effects, and fates of environmental chemical species occurring in aquatic environments. The study includes the chemistry of toxic substances and their interactions with living organisms. **Prerequisites:** 16 hours of chemistry and 3-6 hours of general biology and geology or consent of instructor.

**BIOL 4243 COMPARATIVE HISTOLOGY OF MARINE ORGANISMS**

A detailed study of the histological organization of representative marine organisms. **Prerequisite:** Permission of instructor.

**BIOL 4263 MARINE MAMMALS**

This course will emphasize the natural history and population ecology of cetaceans. Topics will include life history, distribution, population dynamics, diet and feeding, social structure, evolution, and zoogeography. Additional topics may include physiology, communication and echolocation, and marine mammal conservation and management. Pinnipeds, sirenians, sea otters, and the polar bear will be covered. **Prerequisite:** 16 hours of biology including general and one of the following: BIOL 2133, BIOL 2313, or BIOL 4183.

**BIOL 4283 MARINE CHEMISTRY**

A study of the chemical aspects of the oceans and the interactions of chemistry, biology, and geology in a marine environment. **Prerequisites:** 16 hours of chemistry and 3-6 hours of general biology and geology or consent of instructor.

**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 CURRENT TOPICS 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**

**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**

**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 2011-4 SEMINAR IN CHEMISTRY (TOPIC)**

Study of specified topic in chemistry for undergraduate students. Credit one to four semester hours. **D**

**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. **F**

**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 3234 INORGANIC CHEMISTRY**

A study of advanced principles of inorganic chemistry. Both a theoretical and descriptive approach is used to investigate periodicity. **Prerequisite:** CHEM 4344 or departmental approval. SE

**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 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 biosynthesis. **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 4344 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. **Prerequisites:** CHEM 3124 and CHEM 4115; MATH 3834; 10 hours of physics. FE

**CHEM 4454 PHYSICAL CHEMISTRY II**

A continuation of CHEM 4344. Topics include rates and mechanisms of chemical reactions, photochemistry, quantum mechanics and atomic structure, theory of chemical bonding, experimental study of molecular structure-spectroscopic methods, crystal structure. **Prerequisite:** CHEM 4344. 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 4901 SENIOR SEMINAR IN CHEMISTRY**

Each student will be required to select, conduct a literature search, write a review paper, and present a seminar on a chemistry topic of interest. Additionally, each student will prepare a resume' and learn job search strategies and interview skills. **Prerequisite:** Senior standing in chemistry. F

**CHEM 5001-4 INDIVIDUAL STUDY IN CHEMISTRY**

Individual study of specified topic for graduate students. Credit one to four semester hours. D

**CHEM 5011-4 SEMINAR IN CHEMISTRY (TOPIC)**

Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. D

**CHEM 5052 BASIC TOPICS IN CHEMISTRY**

A course for secondary school teachers on the fundamental principles of chemistry. Selected topics are studied in considerable depth. **Prerequisite:** Admission to the Graduate Program. D

**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 1064 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 1613. F, S

**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 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, 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. **Prerequisite:** PHY 1054, PHY 1064, PHY 2155, 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, MATH 2834. FO

**PHY 3243 LINEAR CIRCUIT ANALYSIS**

Study of circuit theorems, AC networks, resonant structures, transmission lines, and transfer characteristics. **Prerequisites:** PHY 1072, PHY 2155, and MATH 3834. D

**PHY 3303 HISTORY OF PHYSICS**

A study of ideas, people, and events in the development of physics from the ancient Greeks to modern times, including discussions of the limitations of the scientific method and of how science is really done.

**PHY 3311 MODERN PHYSICS LABORATORY**

A laboratory course which teaches about the equipment and techniques necessary, and then uses these to detect radiation and to measure fundamental properties of atoms, alpha and beta (electrons) particles, x-rays and gamma rays, etc. **Corequisite:** PHY 3403. S

**PHY 3383 MUSICAL ACOUSTICS**

Fundamentals of vibratory motion, description of sound, the physiological and psychological aspects of sound, production of musical sound, electronics and music, room acoustics, and musical instruments. D

**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. SE

**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. D

**PHY 3523 SOLID-STATE AND NUCLEAR PHYSICS**

Lecture and laboratory study of nuclear models, nuclear reactions, classical and quantum statistics, molecular spectroscopy, crystal structure and band theory of solids, and semiconductor devices. **Prerequisite:** PHY 3403 and MATH 4213. D

**PHY 3544 DIGITAL ELECTRONICS**

Lecture and laboratory study of logic gates and circuits; microprocessor programming and interfacing. **Prerequisite:** PHY 1072. SO

**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 3583 METHODS OF THEORETICAL PHYSICS**

Study of the application of mathematical procedures to formulate and solve problems of physics; harmonic analysis, matrix theory, physical use of differential equations, functions of complex variables and numerical techniques. **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. **D**

**PHY 4663 ELECTRICITY & MAGNETISM II**

Continuation of 4644 including magnetic properties of matter, magnetic energy of slowly varying currents, Maxwell's equations with applications, and electrodynamics. **Prerequisite:** PHY 4644. **D**

**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**

**PHY 4743 SOLID-STATE PHYSICS**

Study of the crystalline state of matter; Debye theory of specific heats, free electron and band theory of metals, insulators, and semiconductors. **Prerequisites:** PHY 3403 and MATH 4213. **D**

**PHY 4763 NUCLEAR PHYSICS**

Study of theories and applications of nuclear physics; binding energies, nuclear forces, nuclear particles and reactions, nuclear models, and reactor physics. **Prerequisites:** PHY 3403 and MATH 4213. **D**

**SCI 1514 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**

**SCI 1614 SCIENCE AND THE ENVIRONMENT**

A course designed for the non-science major to satisfy the four-hour physical science requirement in the General Education program. Physical science principles are developed on a need-to-know basis as they apply to environmental issues. Students will be required to read critically, think analytically, and assess information in ways that lead to informed conclusions and decisions concerning environmental issues. **D**

**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 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. **Prerequisites:** SCI 3114, SCI 3214, and SCI 3314. **F, S**

**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**

**SCI 5001-4 INDIVIDUAL STUDY IN SCIENCE**

Individual study of specified topic for graduate students. Credit one to four semester hours. **D**

## DEPARTMENT OF LANGUAGE ARTS

### English

#### ENGL 0123 FUNDAMENTALS OF ENGLISH

A course designed to emphasize the principles of English grammar and sentence structure to provide students an opportunity to increase their writing skills. Zero credit, this course is not counted as a part of a major or minor. **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. Term paper required. **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. F, S, SU**

#### 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. F.**

#### 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. S.**

#### ENGL 3473 BEGINNING CREATIVE WRITING OF FICTION

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 3483 BEGINNING CREATIVE WRITING OF POETRY

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. S**

#### ENGL 3553 WRITING FOR THE WORKPLACE

This course prepares the aspiring professionals to plan and produce effective business correspondence: letters (good will and bad news), memos, reports, proposals. There will be much emphasis on preparing job-search documents-resumes, cover letters, interview follow-up letters. Much practical attention will be given to job-application web research. Course will provide career focus throughout all majors are welcome. Team collaboration is expected. **Prerequisite: ENGL 1213. S**

#### ENGL 3603 ENGLISH GRAMMAR

A rudimentary study of traditional English grammar. Designed for the elementary, secondary, or pre-law student who is interested in developing a better command of the English language. **Prerequisite: ENGL 1213. F**

#### 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

A survey of recent linguistic study, including historical development, dialects, usage, and structural and transformational grammar. **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 concentration 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. S**

#### ENGL 4473 ADVANCED CREATIVE WRITING OF POETRY

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. S**

#### ENGL 4483 ADVANCED CREATIVE WRITING OF FICTION

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. F**

#### ENGL 4553 TECHNICAL WRITING AND EDITING

Technical writing addresses the needs of both everyday consumers and high-tech users of technical products. Much technical writing is process and description-oriented, most devoted to the project of delivering high technology and the sciences to the non-technical audiences. This course is for both non-scientific writers and students in the technical professions who wish to diversify their portfolios by demonstrating strong writing skills. Students will learn to copyedit using Microsoft Word Reviewing Toolbar, as well as traditional copyediting methodology. This course stresses collaborative teamwork. **Prerequisite: ENGL 1213. S**

#### ENGL 4653 WRITING FOR MULTIMEDIA

Multi media encompasses all computer delivered (Web, DVD, CD-ROM) media that use text, graphics, sound, video, animation. Produced for a variety of purposes (entertainment, gaming, marketing, education). Multimedia is designed to be interactive. Students learn to write and think interactively, using high-level design, architectural structures, mapping, and organizing metaphors. Skills taught include flowcharting, scripting, storyboarding. Several case studies will be feature-museum kiosk, games, worlds narratives. Students are expected to critique (in writing) the work of other students. **Prerequisite: ENGL 1213. F**



**ENGL 4663 CREATIVE NONFICTION**

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 1213. **F**

**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. **S**

**ENGL 5001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)**

Individual study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**ENGL 5011-4 SEMINAR IN ENGLISH (TOPIC)**

Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**Literature****ENGL 2001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)**

Individual study of specified topic for undergraduate students. Credit one to four semester hours. **D**

**ENGL 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.

**LIT 2413 INTRODUCTION TO LITERATURE**

The study of short story, poem, and drama. **F, S, SU**

**LIT 2743 MYTHOLOGY**

A study of Greek, Roman, Norse, and American myths. **D**

**LIT 2833 SCIENCE FICTION**

Reading and discussion of short stories and novels by such writers as Thomas More, H.G. Wells, Tolkien, Bradbury, Asimov, Vonnegut, etc. **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. **S**

**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 AND LIT 2413. **S**

**LIT 3113 EARLY WORLD LITERATURE**

A survey of world literature from ancient literature through the Renaissance. **Prerequisite:** ENGL 1213 AND LIT 2413 **S**

**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. **Prerequisite:** ENGL 1213 AND LIT 2413 **D**

**LIT 3323 MODERN VOICES IN AMERICAN LITERATURE A**

survey of American literature from the Civil War to the present. **Prerequisite:** ENGL 1213 AND LIT 2413. **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. **F**

**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. **S**

**LIT 3443 MIDDLE ENGLISH/CHAUCE**

A study of the language and the literature of thirteenth and fourteenth century England, with emphasis on Chaucer. **Prerequisite:** ENGL 1213 AND LIT 2413 **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. **Prerequisite:** ENGL 1213 AND LIT 2413. **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. **Prerequisite:** ENGL 1213 AND LIT 2413. **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. **Prerequisite:** ENGL 1213 AND LIT 2413. **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 interpretation since 1890.

**Prerequisite:** ENGL 1213 LIT 2413. 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. **Prerequisite:** ENGL 1213 LIT 2413. D

**LIT 3533 BRITISH RENAISSANCE DRAMA**

A study of British theatre in the late 16th and early 17th centuries. Emphasis is on Kyd, Marlowe, Johnson, Shakespeare, and the Jacobean. **Prerequisite:** ENGL 1213 LIT 2413. 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. **Prerequisite:** ENGL 1213 LIT 2413. D

**LIT 3613 AMERICAN ROMANTIC PERIOD**

Readings in the American Romantic period, emphasizing selected works by Whitman, Thoreau, Hawthorne, and Melville. **Prerequisite:** ENGL 1213 LIT 2413. D

**LIT 4001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)**

Individual study of specified topic for undergraduate students. Credit one to four semester hours. **Prerequisite:** ENGL 1213 and LIT 2413. D

**LIT 4011-4 SEMINAR IN LITERATURE (TOPIC)**

Group study of specified topic for undergraduate students. Credit one to four semester hours. **Prerequisite:** ENGL 1213 and LIT 2413. D

**LIT 4113 MODERN WORLD LITERATURE**

A survey of world literature from neoclassicism to the present. **Prerequisite:** ENGL 1213 and LIT 2413. D

**LIT 4123 BRITISH LITERATURE 1795-1950**

A survey of English literature from the Victorian period to the present. **Prerequisite:** ENGL 1213 AND LIT 2413. S

**LIT 4473 MODERN BRITISH AND AMERICAN POETRY**

Poetry of the twentieth century. **Prerequisite:** ENGL 1213 and LIT 2413. 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 AND LIT 2413. 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 AND LIT 2413. D

**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. **Prerequisite:** ENGL 1213 and LIT 2413. D

**LIT 4763 BRITISH LITERARY HERITAGE TO 1800**

In this course the student will become familiar with the major genres, authors and works and with the historical context of British literature from its beginning to 1800. The course explores the developments in language, literature, and society. Writers studied include the Beowulf poet, Chaucer, Spencer, Marie de France, Shakespeare, Milton, Pope, and Johnson. **Prerequisite:** ENGL 1213 and LIT 2413. 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 and LIT 2413. F

**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 and LIT 2413. F

**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 plays representing major literary periods from classic to modern. F, S

**COMM 1313 INTRODUCTION TO PUBLIC SPEAKING**

This course provides students with an in-depth analysis of public speaking. It includes a thorough examination of the theoretical framework of public speaking and requires students to put those theories into practice. Students will build critical thinking skills by constructing their own messages and evaluating those of others. This course is designed to heighten students' skills as well as increase their confidence as public speakers.

**COMM 2063 VOICE AND DICTION**

Study of vocal elements and phonetics; emphasis on function of speech and on vocal musculature. SD

**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**

News gathering and writing for publication. Reporting beyond the inverted pyramid style. **Prerequisite:** COMM 2113. F, 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.

**COMM 2763 STAGE CRAFT**

The construction, painting, rigging, and handling of stage scenery and properties.

**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. **D**

**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. **Prerequisite:** COMM 2763. **SO**

**COMM 3073 PERSUASION**

Exposure to several theories of persuasive communication. Practical assignments used to test theories and develop persuasive skills.

**COMM 3113 NEWS EDITING**

Problems of the editorial desk, including editing and proof-reading, 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.

**COMM 3313 FEATURE WRITING**

Writing the feature story for both newspapers and magazines. **Prerequisites:** COMM 2113 and 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 3453 SMALL GROUP COMMUNICATION**

Study of ways in which group discussion functions and means of becoming effective discussion leaders and participants. **FO**

**COMM 3553 ORAL INTERPRETATION**

A study of the theory, principles, and techniques of the interpretation of literature for oral performance.

**COMM 3563 ARGUMENTATION AND DEBATE**

Study and application of logic and argumentation; practical application through debate and discussion.

**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. **S**

**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 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 3963 COSTUME HISTORY**

A study of the design and development of costume from ancient times up to the present. **Prerequisite:** COMM 1263. **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 4243 MEDIA PRODUCTION**

Students are provided opportunities to develop their communication skills through audio and video media projects. **F**

**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.

**COMM 4343 COMMUNICATION THEORY**

Introduction to theories and methods used to study human communication phenomena across several contexts. **F**

**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. **S**

**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. **Prerequisites:** COMM 1263 & COMM 2763.

**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. **Prerequisite:** COMM 1263. **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 and COMM 2763. **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. **Prerequisite:** COMM 1263 **SE**

**COMM 4963 ACTING II**

Intensive study of acting techniques with special emphasis on character development, vocal patterns, and physical movement. **Prerequisite:** COMM 1263 AND COMM 2363. **S**

## Foreign Language

Courses in foreign languages provide students the ability to actively and productively participate in today's interdependent world. Better understanding and appreciation of other languages and cultures allow the student to understand better his/her native language and culture. Knowledge and ability in a foreign language enhance any area of the College of Arts and Sciences and provide essential cultural and linguistic background for students in teacher education.

More than sufficient course work is offered for students who choose Spanish as a second teaching field or as a minor to enhance any major.

### German

#### GERMN 1134 ELEMENTARY GERMAN I

Fundamentals of spoken and written German. Use of laboratory. First semester. **F**

#### GERMN 1234 ELEMENTARY GERMAN II

Continuation of 1135 Elementary German I. Second semester. **Prerequisite:** GERMN 1134. **S**

#### GERMN 2133 INTERMEDIATE GERMAN I

Review of grammar, composition, and conversation; based on adequate readings. First semester. **Prerequisite:** GERMN 1234 or equivalent. **D**

#### GERMN 2233 INTERMEDIATE GERMAN II

Continuation of GERMN 2133 Intermediate German I. Second semester. **Prerequisite:** GERMN 2133 or equivalent. **D**

#### GERMN 2332 GERMAN READINGS

Practice in reading scholarly and idiomatic German essays on a wide range of topics, particularly emphasizing scientific German. **Prerequisite:** GERMN 1234 or equivalent **D**

#### GERMN 2432 GERMAN CONVERSATION

Study designed to develop fluency in speaking German and a command of idiomatic expression. Organized vocabulary development and practice in oral composition involving everyday situations. **Prerequisite:** GERMN 1234 or equivalent. **D**

### Latin

#### LATIN 1054 ELEMENTARY LATIN I

Elementary course in Latin. Fundamentals of Latin with emphasis on vocabulary and structure of the language. **F**

#### LATIN 1154 ELEMENTARY LATIN II

Continuation of Latin I. Subjunctive mood, active and passive of all verbs, conditional clauses, fourth and fifth declensions are covered. **Prerequisite:** LATIN 1054. **S**

### Russian

#### RUSSN 1043 ELEMENTARY RUSSIAN I

The Cyrillic alphabet; basic vocabulary; elements of grammar; easy reading; oral and written exercises. **D**

#### RUSSN 1143 ELEMENTARY RUSSIAN II

Continuation of RUSSN 1043. **Prerequisite:** RUSSN 1043 or one year of high school Russian. **D**

### 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**

#### 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. **S**

#### 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; may be taken concurrently with SPAN 2252. **Prerequisite:** SPAN 2053 or equivalent. **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 beginnings 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; may be taken concurrently with SPAN 2053. **Prerequisite:** SPAN 1154 or equivalent. **S**

#### SPAN 3652 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. **Prerequisites:** SPAN 1054 and SPAN 1154 or equivalent. **D**

#### 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. **D**

#### SPAN 3853 SPANISH COMPOSITION

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. **D**

#### SPAN 4012/3 SEMINAR IN SPANISH

Group study of specified topic for undergraduate students. **Prerequisite:** SPAN 2053 or equivalent. **D**

#### SPAN 4553 SPANISH STUDY ABROAD

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. **D**

#### SPAN 4923 TEACHERS COURSE IN FOREIGN LANGUAGES

Course designed to give the basic principles and techniques for effective instruction in world languages. **F**

## Philosophy

### PHILO 1452 INTRODUCTION TO PHILOSOPHY

A survey of major philosophers and their respective contributions to philosophy, from ancient Greece to the present, with emphasis on the Western World. **F, S, SU**

## DEPARTMENT OF MATHEMATICS

### MATH 0123 BASIC ALGEBRA

Entry level algebra course including arithmetic skills to meet math deficiency. A zero hour course designed to prepare students for Intermediate Algebra. **F, S, SU**

### MATH 1103 INTERMEDIATE ALGEBRA

Real and complex numbers, and algebraic expressions. Solutions of equations and inequalities through quadratics. Solutions of rational, radical, absolute value, and polynomial equations and inequalities. Systems of linear equations and inequalities. Functions, graphing of linear and quadratic functions. **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, number theory, and graph theory. **F, S, SU**

### 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: Departmental approval or placement by examination. F, S, SU**

### MATH 1613 COLLEGE TRIGONOMETRY

The basic course stressing trigonometric functions, periodicity, identities, and solution of triangles. **Prerequisite: MATH 1513, Departmental approval, or placement by examination. F, S, SU**

### MATH 1715 COLLEGE ALGEBRA AND TRIGONOMETRY

A combined course of MATH 1513 and MATH 1613. **Prerequisite: Departmental approval or placement by examination. F**

### 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 2823 APPLIED CALCULUS

A survey of calculus and its applications to business, life, and social sciences. Limits, beginning techniques of differentiation and integration, maxima, minima. **Prerequisite: MATH 1513 and MATH 1613, or MATH 1715 or placement by examination. 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, and polar coordinates. **Prerequisite: MATH 1834. F, S**

### MATH 3113 FOUNDATIONS IN MATHEMATICS

An introduction to basic concepts upon which mathematics is founded. A study of structure, pattern, and development. **Prerequisite: MATH 2834 or departmental approval. F**

### MATH 3413 STATISTICAL METHODS I

Beginning techniques for students with modest mathematical backgrounds. Emphasis on applications to the biological and physical sciences, business, and education. **Prerequisite: MATH 1513. F, SUE**

### MATH 3433 STATISTICS I

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 package SPSS. An introductory probability and statistics course. Applications are emphasized. **Prerequisite: MATH 1513. S, SUO**

### 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. SE**

### 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. FE, S, SUO**

### 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. F, S**

### MATH 3834 CALCULUS III

Continuation of Calculus II. Calculus of vectors, partial differentiation, multiple integration, and the line integral. **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. SUE

#### **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. SUO

#### **Modern Algebra for Secondary Teachers**

Fundamental concepts of set, mapping, binary operation, relation, 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. SUE

#### **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. SUO

### **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 4152 HISTORY OF MATHEMATICS**

The historical development of mathematics. A chronological problem-type survey from past to present. D

### **MATH 4213 DIFFERENTIAL EQUATIONS I**

Solutions of ordinary differential equations with applications. **Prerequisite:** MATH 3834 or departmental approval. S

### **MATH 4223 DIFFERENTIAL EQUATIONS II**

Continuation of MATH 4213. Transforms, existence of solutions, higher degree equations, series, orthogonal sets. D

### **MATH 4233 VECTOR ANALYSIS**

A comprehensive course in theory and applications or vector analysis with an introduction to vector spaces. **Prerequisite:** MATH 3834. D

### **MATH 4653 MODERN ALGEBRA**

An introduction to group, ring, and field theory. Emphasis on real and complex number fields. Supportive problem sets and applications. **Prerequisite:** MATH 3834 or departmental approval. F, SE, SUE

### **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. SO

### **MATH 4853 ADVANCED CALCULUS**

A course designed to strengthen and extend the theory beyond the usual beginning 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. F

### **MATH 5001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)**

Independent study of specified topic in mathematics for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. D

### **MATH 5011-4 SEMINAR IN MATH**

Group study of specific topic in mathematics for graduate students. Credit 1 to 4 semester hours. D

### **MATH 5612 LINEAR ALGEBRA FOR SECONDARY SCHOOLS**

Understanding of the techniques of matrix algebra in the solutions of systems of linear equations and elementary transformations. **Prerequisite:** Admission to the Graduate Program and MATH 2834. SUO

### **MATH 5632 ABSTRACT ALGEBRA FOR SECONDARY SCHOOLS**

Understanding of the algebraic concepts of homomorphism, isomorphism, decomposition and operators. **Prerequisites:** MATH 3834 and admission to the Graduate Program. SUE

### **MATH 5712 CURRENT TRENDS IN SECONDARY SCHOOL GEOMETRY**

Modern teaching techniques of secondary school geometry. **Prerequisite:** MATH 2834 and Admission to the Graduate Program. D

### **MATH 5753 INTRODUCTION TO METRIC AND NON-METRIC GEOMETRY**

Undefined terms, definitions, postulates, and theorems of a logical system, and Euclidean geometry. Introduction to coordinate and vector geometries. **Prerequisite:** Admission to the graduate program. D

### **MATH 5812 REAL NUMBERS**

The development of the real numbers. Peano's Postulates, natural numbers, relations, integers, rational numbers, real numbers, and extensions of the real number field. **Prerequisites:** MATH 2834 and admission to the Graduate Program. SU

## **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, SU

**MATH 1443 STRUCTURAL CONCEPTS IN MATHEMATICS**

A continuation of MATH 1433. A study of the structures of number systems, informal geometry, probability and statistics. For elementary teachers. **Prerequisite:** MATH 1433. **F, S, SU**

**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. **Prerequisite:** MATH 1443. **F, S, SU**

**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. **Prerequisite:** MATH 1443. **F, S, SU**

**MATH 2143 PROBABILITY AND STATISTICS FOR ELEMENTARY TEACHERS**

An introductory probability and statistics course. Beginning techniques for students with a minimal background in mathematics. Applications, hands-on activities, and methods are emphasized. Graphing calculators. **Prerequisite:** MATH 1443. **D**

**DEPARTMENT OF MUSIC****MUSIC 1013 INTRODUCTION TO MUSIC I**

Introduction to the history of music and musical styles. **F, S, SU**

**MUSIC 1032 INTRODUCTION TO MUSIC II**

Continuation of MUSIC 1013. **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. **D**

**MUSIC 1172 INTRODUCTION TO MUSIC THERAPY**

Surveying fundamental issues of music therapy, including it's definitions, histories, theories, trainings, served populations, and professional trends.

**MUSIC 1214 MUSIC THEORY I**

Beginning study of diatonic theory, including intervals, chords, written harmony, ear training, sight singing, keyboard harmony, and form. **F**

**MUSIC 1223 MUSIC THERAPY I: MUSIC THERAPY IN REHABILITATION**

The role of music therapy in rehabilitation; music therapy theory, research, and clinical practice. **D**

**MUSIC 1314 MUSIC THEORY II**

Continuation of MUSIC 1214 Elementary Theory. Emphasis on chords, inversions, secondary sevenths, and modulations. **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 one woodwind instrument 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**

Orientation to music therapy practicum and introductory clinical experiences. Two classes and a one-hour seminar 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**

Supervised practicum experience in a rehabilitation setting for adults. Two classes and a one-hour seminar each week. **D**

**MUSIC 2222 RECREATIONAL MUSIC**

The use of various music methods in the process of music therapy, 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. **D**

**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**

Supervised practicum experience with exceptional children or adolescents. Two classes and a one-hour seminar 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 3181 MUSIC THERAPY COMPETENCIES AND PROFESSIONAL ETHICS**

Discussion of music therapy professional competencies and ethics, including standard of practice, ethical problems, and ethical solutions consistent with accepted rules of professional conduct.

**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. **F**

**MUSIC 3303 MUSIC THEORY IV**

Continuation of MUSIC 3253 with opportunity for creative experience in writing these styles. **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 3502 COUNTERPOINT**

The study of polyphony through score analysis and recordings, writing in the five species, and the seventeenth- and eighteenth-century free style. **Prerequisite: MUSIC 3253. F**

**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 with emphasis on the woodwind choir. 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** Two 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. SU, 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**

Experimental research techniques and 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**

Diagnostic tests, theory, research, and clinical practice in music therapy for the mentally retarded. **D**



**MUSIC 4222 INSTRUMENTAL PEDAGOGY**

Physical and psychological problems associated with teaching wind, percussion, and stringed instruments. **FO**

**MUSIC 4232 INSTRUMENTATION**

A practical course in the technique of arranging for instrumental 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. **D**

**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**

Supervised practicum experience in a rehabilitation setting. Two classes and a one-hour seminar 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 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 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 5001-4 INDIVIDUAL STUDY IN MUSIC (TOPIC)**

Independent study of a specific topic in music for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5011-4 SEMINAR IN VOCAL MUSIC (TOPIC)**

Group study of a specified topic in vocal music for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5011-4 SEMINAR IN INSTRUMENTAL MUSIC (TOPIC)**

Group study of a specified topic in instrumental music for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to Graduate Program. **D**

**MUSIC 5100 FINAL COMPREHENSIVE EXAMINATION**

The final comprehensive examination for graduate students in music. Enrollment by permission of the chair. **D**

**MUSIC 5102 FORMS AND 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.

**MUSIC 5112 INTRODUCTION TO MUSIC RESEARCH**

An introduction to the techniques of research and writing in the various sub-specialties of music and music education. **SE**

**MUSIC 5122 MASTER'S THESIS**

An elective research document for students in the Master of Music program. Enrollment by permission of the Department of Music Graduate Coordinator.

**MUSIC 5172 MUSIC OF THE BAROQUE**

A study of musical styles of the seventeenth and early eighteenth century. **D**

**MUSIC 5252 INSTRUMENTAL PROBLEMS**

An advanced study of teaching techniques for the various instruments of the band and orchestra. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5302 MUSIC PROGRAM ADMINISTRATION**

The study of administrative procedures of the public school, university, or professional music director. **Prerequisite:** Admission to the Graduate Program. **SO**

**MUSIC 5352 MARCHING BAND TECHNIQUES**

Study of techniques and styles for marching bands, including pageantry, precision drill, dance steps and parade. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5402 SEMINAR IN ADVANCED INSTRUMENTAL TECHNIQUES**

The advanced study of techniques for playing and teaching orchestral instruments. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5452 ARRANGING FOR MARCHING BAND**

An advanced study of techniques of arranging for the marching band. **Prerequisites:** MUSIC 3303 and MUSIC 4232 or equivalent, and admission to the Graduate Program. **D**

**MUSIC 5482 ADVANCED INSTRUMENTAL LITERATURE**

An advanced study of music literature written for instrumental ensembles. The review will include music for solo winds and full band. **Prerequisite:** Admission to the Graduate Program. **SE**

**MUSIC 5512 ADVANCED VOCAL METHODS**

An advanced and detailed study of the various approaches to teaching solo and ensemble singing, with review of music literature suitable for secondary level students in the public schools. **Prerequisite:** Admission to the Graduate Program. **SE**

**MUSIC 5542 ADVANCED CHORAL LITERATURE**

A study of criteria for the evaluation and selection of choral music including the review of a variety of choral music. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5572 CHORAL ARRANGING**

A study of the problems and techniques of voice leading and sonority in arranging music for the various choral music ensembles. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5702 MUSIC OF THE CLASSIC ERA**

Western musical style and literature from c. 1720 to 1820. **D**

**MUSIC 5752 MUSIC OF THE ROMANTIC ERA**

A survey of the development of Western musical forms and styles from c. 1820 to 1920. **D**

**MUSIC 5762 ADVANCED CONDUCTING**

The study and analysis of problems and procedures connected with conducting ensembles of all kinds. Emphasis is on problems of technique and communication. **Prerequisite:** Admission to the Graduate Program. **SE**

**MUSIC 5782 LANGUAGE DICTION**

Detailed study of the pronunciation of Latin, Italian, French, and German as they apply in both speech and singing. **Prerequisite:** Admission to the Graduate Program. **D**

**MUSIC 5802 MUSIC OF 20<sup>th</sup> CENTURY**

Musical styles and literature from 1880 to the present. **D**

**MUSIC 5882 FOUNDATIONS OF MUSIC EDUCATION**

A survey of the various specialties within music education, and a detailed study of the various philosophies and rationales which support music programs in public schools and universities. **Prerequisite:** Admission to the Graduate Program. **SO**

**MUSIC 5971 GRADUATE RECITAL**

A public recital elective for students in the Master of Music in Music Education degree. Enrollment by permission of applied music teacher. **F, S, SU**

**MUSIC 5972 GRADUATE RECITAL**

A public recital required of students in the Master of Music in Performance degree. Enrollment by permission of Graduate Committee, after completing a successful recital hearing. **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****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 2503 CRIMINAL JUSTICE ADMINISTRATION**

A study of the organization and management of Criminal Justice agencies. **Prerequisite:** CRMJS 1113. **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 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 4013 SEMINAR IN CRIMINAL JUSTICE**

Intensive study on selected topic in Criminal Justice. **Prerequisite:** CRMJS 1113. **D**

**CRMJS 4033 THE SOCIOLOGY OF LAW**

A sociological study of the place of law in society and the connections among social values & beliefs, behavior and law. **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 4413 LAW ENFORCEMENT POLICY**

Analysis of issues of formulation, implementation, and evaluation of policies concerning enforcement of laws in the U.S. criminal justice system. **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**

**CRMJS 5903 DIRECTED READINGS IN CRIMINAL JUSTICE**

Scope of project determined by instructor. May be repeated for a total of 6 hours. **Permission required.**

**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 2103 PHYSICAL GEOGRAPHY**

Introduction to physical geography including study of earth materials; landforms; earth-sun relationships; weather elements; climatic types; natural vegetation and soil types. **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. **F**

**GEOG 4103 WORLD GEOGRAPHY BY REGIONS**

Principles of regional geography and the classification and utilization of major world regions. Physiographic, climatic, economic, and cultural aspects of various regions are studied. **S**

**GEOG 4113 GEOGRAPHY OF U.S. AND CANADA**

Study of physical and economic regions of the United States and Canada. Emphasis placed on physical background, cultural setting and economic foundations of each region. **F**

**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 1063 UNITED STATES HISTORY**

A survey of American history from colonial times to the present. **F, S, SU**

**HIST 3033 HISTORIANS OF THE MIDDLE AGES**

Detailed readings of the chronicles and histories written by medieval Europe's most prominent historians. Issues pertaining to content, themes, styles, and biases will be examined. **D**

**HIST 3043 EARLY MODERN EUROPE**

History of European states from the late medieval period to the outbreak of the French Revolution. **D**

**HIST 3063 MODERN IRELAND**

A history of Ireland with an emphasis on the period since the 17<sup>th</sup> century. **D**

**HIST 3073 NINETEENTH CENTURY EUROPE**

Examines the "Great Transformation" of Europe from 1789 to 1914. **D**

**HIST 3083 NATIONALISM AND ETHNICITY**

An examination of the theories of national and ethnic community, and the violent application of such theories in 19<sup>th</sup> and 20<sup>th</sup> century Europe. **D**

**HIST 3093 TWENTIETH CENTURY EUROPE: 1899-1989**

Our own century in which the old order finally collapses, nationalists and capitalist societies compete in total wars and technological progress transforms western civilization. **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 ELIZABETH I**

Study of the life and reign of Queen Elizabeth I. **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 ancien 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. **O**

**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. **D**

**HIST 4063 GILDED AGE: 1877-1920**

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: 1920 TO 1960**

The 1920's, Depression and New Deal, WWII, Cold War, Korea, and McCarthyism. **D**

**HIST 4083 CONTEMPORARY AMERICA: 1960-PRESENT**

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. **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. **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 4313 AMERICAN WEST**

Study of the Trans-Mississippi West with emphasis on the impact of the frontier on American life, environmental issues, and the 20th Century West. **D**

**HIST 4353 HISTORY OF OKLAHOMA**

Oklahoma history from its beginning to present, including Indian background, formation into territories, achievement of statehood, and general cultural, economic, and political development. **S, SU**

**HIST 4503 AMERICAN DIPLOMATIC HISTORY**

Power, force, and diplomacy. A study of the "American Century". Emphasis on U.S. foreign relation and entanglements, American influence in the 20<sup>th</sup> Century World including culture, business, and government. **B**

**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**

**HIST 5011-4 SEMINAR IN HISTORY (TOPIC)**

Intensive study of selected topic in history. Credit one to four hours. **D**

**HIST 5901-4 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 1153 WORLD RELATIONS AND POLITICS**

A general education course analyzing international political and economic problems of the contemporary world from a comparative perspective. No prerequisite; not for major credit. **F, S**

**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. S**

**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 legislative bodies, with particular attention to Congress and state legislature. **Prerequisite: POLSC 1103. F**

**POLSC 3343 WOMEN & POLITICS**

A study of women's pursuit of equality in the US 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**

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. S**

**POLSC 3363 PUBLIC ADMINISTRATION THEORY & PRACTICE**

Introduction to principles and problems of public administration, organization, planning, supervision, budgeting, and administration responsibility. **Prerequisite: POLSC 1103. D**

**POLSC3373 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. **S. Prerequisite: POLSC1103.**

**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 & 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 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 & 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 course work. **Prerequisite:** POLSC 1103. **Permission required. D**

**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. **S**

**SOCIO 3163 SOCIOLOGY OF DEVIANT & 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**

**SOCIO 4313 SOCIOLOGY OF AGING**

An analysis of theoretical perspectives on aging; the social and social psychological changes accompanying aging; examination of age considerations in American society. **F**

**SOCIO 4323 GERONTOLOGY**

An examination of the developmental aspects of aging plus an investigation of programs and services available for the aged. **S**

**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**

**SOCSC 3863 FUNDAMENTALS OF RESEARCH**

Use of scientific method in social science research. **Prerequisite:** SOCSC 3853. **F**

**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. **Prerequisite:** Admission to Teacher Education Program. **F**

# COLLEGE OF PHARMACY

## Medicinal Chemistry

### PHARM 3403 BIOMEDICINAL CHEMISTRY

Three hours lecture. A study of medicinal agents, their physical and chemical properties, their metabolism, and parameters affecting bioavailability. **Prerequisites:** First professional year standing.

### PHARM 4413 MEDICINAL CHEMISTRY I

Three hours lecture. A study of medicinal agents involving discussions of important physicochemical parameters and their effect on biochemical, pharmacological and pharmacokinetic processes. This is a continuation of Biomedical Chemistry. **Prerequisites:** CHEM 4124, PHARM 3403 and 3613. **Prerequisite or concurrent enrollment:** PHARM 3123.

### PHARM 4422 CURRENT CONCEPTS IN MEDICINAL CHEMISTRY

An elective course dealing with new processes and techniques in medicinal chemistry. **Prerequisite:** PHARM 4413 or permission of instructor.

### PHARM 4515 MEDICINAL CHEMISTRY II

Five hours lecture. A study of medicinal agents involving discussions of important physicochemical parameters and their effect on biochemical, pharmacological and pharmacokinetic processes. **Prerequisites:** PHARM 3702, 3724 and 4413.

### PHARM 5422 DRUG INTERACTIONS

Two hours lecture. A review of biochemical and pharmacodynamic mechanisms involved in drug-drug interactions and drug-food interactions. **Prerequisites:** PHARM 4012 and 4413. **Prerequisite or concurrent enrollment:** PHARM 4655.

## Pharmaceutics

### PHARM 2202 DRUGS IN SOCIETY

Two hours lecture. A lower division course provided as a general education service offering for students in other departments and divisions of the institution. This course is designed for students with no college background in the physical and biological sciences and includes those things an informed citizen should know about the use of legal drugs as well as the problems of drug abuse. This course is not open to pharmacy students.

### PHARM 3001 INTRODUCTION TO PHARMACY

One hour lecture. An orientation course, which is required in the first professional semester, designed to provide the students with a survey of the profession and the School of Pharmacy. **Prerequisite:** Admission to the College of Pharmacy.

### PHARM 3023 PHARMACEUTICS I

Three hours lecture. An introduction to metrology and pharmaceutical calculations; the prescription and those legal considerations concerning this document; and an introduction to pharmaceutical dosage forms and to the principles of biopharmaceutics. **Prerequisite:** Admission to the College of Pharmacy.

### PHARM 3123 PHARMACEUTICS II

Three hours lecture. A study of the principles, processes and fundamental classes of pharmaceutical dosage forms. Discussions involving pertinent pharmaceutical calculations, biopharmaceutical concepts and physical pharmacy are included. **Prerequisite:** PHARM 3023. **Prerequisite or concurrent enrollment:** PHARM 3613.

### PHARM 3311 PHARMACEUTICAL CARE LABORATORY I

Introduction to the prescription, dispensing processes, and patient counseling. **Prerequisites or concurrent enrollment:** PHARM 3123.

### PHARM 4012 PRESCRIPTION PRODUCTS

Two hours lecture. A discussion of the major prescription products dispensed in the United States. **Prerequisite:** PHARM 3123. **Prerequisite or concurrent enrollment:** PHARM 3724 and 3702.

### PHARM 4032 PHARMACEUTICS III

Two hours lecture. A study of modern prescription dispensing. Special stress is placed on dosage forms, potencies, proper storage, adverse reactions, contraindications and drug interactions. Methods of patient counseling, prescription pricing and maintenance of family prescription record systems are discussed, along with prescription accessory products and related items. **Prerequisites:** PHARM 3123 and typewriting proficiency of 35 words per minute. **Prerequisite or concurrent enrollment:** PHARM 3724 and PHARM 3702.

### PHARM 4041 PHARMACEUTICAL CARE LABORATORY II

Advanced dispensing processes and prescription systems, management, and utilization; enhanced patient counseling and computer utilization. **Prerequisite:** PHARM 3311. **Prerequisite or concurrent enrollment:** PHARM 4012.

### PHARM 4101-2 PHARMACY PROBLEMS

One-two hours credit. Original investigations in the fields of pharmaceutics, medicinal chemistry and pharmacology. **Prerequisites:** Second year standing; consent of instructor.

### PHARM 4122 HOSPITAL AND INSTITUTIONAL PHARMACY

Two hours lecture. An introduction to pharmaceutical services in hospitals and other health care institutions. **Prerequisite:** Second year standing or permission of instructor. **Open to upper division students in Allied Health Sciences.**

### PHARM 5010 SEMINAR

No credit. A seminar for third-year professional students.

### PHARM 5054 NONPRESCRIPTION PRODUCT THERAPEUTICS

Four hours lecture. A review of disease states and the application of patient-oriented rational drug therapy, primarily concerning non-prescription drug products. Emphasis is placed on patient counseling, drug interactions, contradictions and adverse drug reactions. **Prerequisites or concurrent enrollment:** PHARM 4745 and PHARM 4413.

### PHARM 5142 PHARMACEUTICS IV

Three hours lecture. The study of institutional pharmacy products and procedures. Emphasis is placed on components of parenteral or enteral products and their preparation, administration and dispensing, all with special reference to institutional, home infusion and compounding practices. **Prerequisites:** PHARM 3724, 3702, and 3123. **Concurrent enrollment:** Pharmacy 5151

### PHARM 5151 PHARMACEUTICAL CARE LABORATORY IV

Preparation and dispensing of parenteral and sterile products and admixtures; overview of institutional dispensing systems. **Prerequisite:** PHARM 3311. **Prerequisite or concurrent enrollment:** PHARM 5142.

### PHARM 5162 DISPENSING OF SURGICAL APPLIANCES AND CONVALESCENT AIDS

An elective course to instruct health professionals in the fitting and dispensing of surgical appliances and convalescent aids. **Prerequisite:** PHARM 3613 or consent of instructor.

**PHARM 5172 CURRENT CONCEPTS IN PHARMACEUTICS**

An elective course dealing with current topics in pharmaceuticals.  
**Prerequisite:** PHARM 4012 or consent of instructor.

**Pharmacology and Toxicology**

**PHARM 3613 PATHOPHYSIOLOGY I**

Three hours lecture. A study of physiology and pathophysiology with emphasis on cell structure and function, neurophysiology, neurological and mental disorders, and muscle physiology.  
**Prerequisites:** First professional year standing.

**PHARM 3702 PRINCIPLES OF DISEASE**

Two hours lecture. A study of basic pathological mechanisms of human disease with emphasis on cell pathology, inflammation, cancer, blood disorders, joint and connective tissue diseases and nutritional and metabolic disorders. **Prerequisite:** First professional year standing.

**PHARM 3724 PATHOPHYSIOLOGY II**

Four hours lecture. A study of human physiology and pathophysiology with emphasis on the endocrine, cardiovascular, respiratory, renal digestive and reproductive systems.  
**Prerequisite:** PHARM 3613.

**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 4633 PHARMACOKINETICS**

Three hours lecture. General principles of pharmacokinetic models are presented as they pertain to the processes of absorption, distribution and elimination of drugs. This is followed by discussion of relevant clinical applications to current therapeutic problems using specific drugs as examples. **Prerequisites:** PHARM 3403, 3702 and PHARM 3724.

**PHARM 4655 PHARMACOLOGY I**

Five hours lecture. General principles of pharmacology are presented, including drug development, receptor theory, drug interactions and pharmacogenetics followed by a discussion of specific drug categories. **Prerequisites:** PHARM 3403, 3702 and 3724; CHEM 4124. **Prerequisites or concurrent enrollment:** PHARM 3123 and ALHLT 4213.

**PHARM 4745 PHARMACOLOGY II**

Five hours lecture. A continuation of Pharmacy 4655 with discussions of specific drug categories. **Prerequisite:** PHARM 4655. **Prerequisites or concurrent enrollment:** PHARM 4413.

**PHARM 5712 VETERINARY PHARMACOLOGY**

Two hours 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:** PHARM 4655

**PHARM 5752 TOXICOLOGY**

Two hours lecture. An introduction to the general principles of toxicology. Special emphasis is given to medicinal agents, substances of abuse, pesticides, food additives, and other chemical and environmental toxicants. **Prerequisites:** PHARM 4413 and 4655.

**PHARM 5772 CURRENT CONCEPTS IN PHARMACOLOGY**

An elective course dealing with current topics in pharmacology.  
**Prerequisite:** PHARM 4655 or consent of instructor.

**Pharmacy Practice**

**PHARM 4302 DRUG INFORMATION**

An overview of drug information sources, retrieval processes, and analysis, including an orientation to basic biostatistics.  
**Prerequisites:** PHARM 3123, PHARM 3702, PHARM 3724, and PHARM 3812.

**PHARM 4323 FOUNDATIONS IN PHARMACY PRACTICE**

Three hours lecture. An introduction to the clinical role of the pharmacist with emphasis on patient interviewing and counseling techniques, evaluating physical assessment and clinical laboratory data, and case study processes. **Prerequisite:** Blood Pressure Certification. **Prerequisite or concurrent enrollment:** PHARM 4302.

**PHARM 4331 PHARMACEUTICAL CARE LABORATORY III**

Development of pharmaceutical care plans, drug information retrieval, patient interviewing and assessment, and patient case studies. **Prerequisite:** PHARM 4041. **Prerequisite or concurrent enrollment:** PHARM 4302 and 4323.

**PHARM 4443 BIOLOGICAL ASPECTS OF AGING**

Three hours lecture. A study of the normal aging process as well as most common diseases of the elderly. Emphasis is on the impact of aging, disease, and medications on lifestyle.

**PHARM 5204 CONCEPTS OF PHARMACOTHERAPY**

Four hours lecture. Principles and applications of rational pharmacotherapeutics with emphasis on drug selection and evaluation, drug interactions, patient counseling, and adverse drug reactions. **Prerequisites:** PHARM 4012, 4032 and 4323. **Prerequisite or concurrent enrollment:** PHARM 4515, 4633 and 4745.

**PHARM 5234 PRINCIPLES OF PHARMACOTHERAPY**

Four hours lecture. Principles and applications of rational pharmacotherapeutics with emphasis on drug selection and evaluation, drug interactions, patient counseling, and adverse drug reactions. **Prerequisites:** PHARM 4323, 4515, 4633, and 4745.

**PHARM 5322 PHARMACEUTICAL CARE LABORATORY V**

Development, preparation and implementation of pharmaceutical care plans; demonstration of patient counseling and monitoring skills; patient case studies; review of prescription dispensing and practice skills. **Prerequisite:** PHARM 4331. **Prerequisite or concurrent enrollment:** PHARM 5204 and PHARM 5234.

**PHARM 5323 CONSULTANT PHARMACY**

Three hours lecture and seminar. A study of the role of the pharmacist as a consultant to health care facilities. Topics include drug regimen review, in-service training, policy and procedure manual, committee responsibilities, unit dose system and federal/state regulations. **Prerequisite:** PHARM 4323.

**PHARM 5332 GERONTOLOGY**

Seminar, lecture and laboratory. A study of the aging process and associated social, psychological and pharmacological problems. The role of the practitioner in rendering effective treatment to the geriatric patient is stressed. Practical application of consultant skills will be emphasized in nursing facilities. **Prerequisite:** PHARM 4323. **Prerequisite or concurrent enrollment:** PHARM 5323.

**PHARM 5342 CURRENT CONCEPTS IN PHARMACY PRACTICE**

An elective course dealing with current topics in pharmacy practice. **Prerequisite:** PHARM 5204 or consent of instructor.

**PHARM 5914 and PHARM 5924 PHARMACY PRACTICE-COMMUNITY**

Forty hours laboratory per week for a four-week period. Instruction and supervised laboratory training 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 PHARMACY PRACTICE-INSTITUTIONAL**

Forty hours laboratory per week for a four-week period. The advanced student utilizes their previous coursework and training to demonstrate the application of pharmaceutical care in an institutional setting. Drug policy management, distribution systems and administrative activities are also covered. **Prerequisites:** Fourth professional year standing.

**PHARM 5944 and PHARM 5984 PHARMACY PRACTICE-SELECTIVE**

Forty hours laboratory per week for a four week-period. Instruction and supervised laboratory training by an instructor in 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, administrative rotations, Indian health services, specialty compounding pharmacies, managed care, or additional community or institutional rotations. **Prerequisites:** Fourth professional year standing.

**PHARM 5954, PHARM 5964 and PHARM 5974 PHARMACY PRACTICE-MEDICINE**

Forty hours laboratory per week for a four-week period. Supervised instruction by a pharmacy practice faculty member in a patient 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. **Prerequisites:** Fourth professional year standing.

**Pharmacy Administration****PHARM 3803 PHARMACY MANAGEMENT**

Three hours lecture. A study of the basic principles of managerial accounting and the application of those principles to pharmacy management. **Prerequisites:** First professional year standing.

**PHARM 3812 PHARMACY COMMUNICATIONS**

Two hours lecture. A study of communication theory and the transfer of meaning as they relate to the human transactions of professional pharmacists. Practical applications of written and oral expression; reactions to and interpretations of, individual experiences. **Prerequisite:** First professional year standing.

**PHARM 3902 HUMAN RELATIONS**

Two hours lecture. A study of the integration of the separate components of the health and medical care system, accompanied by a development of the social and psycho-logical encounters which arise from this integrative process. **Prerequisite:** First professional year standing.

**PHARM 4802 RECORDS AND CONTROL SYSTEMS FOR PHARMACY**

Two hours lecture. A study of the records, both required and optional, which are maintained by pharmacies, including business records and records required by professional licensing agencies. **Prerequisites:** PHARM 4012 and 3803.

**PHARM 4811-2 SPECIAL PROBLEMS IN PHARMACY ADMINISTRATION**

One-two hours credit. Seminar/discussion format of current topics and research in pharmacy administration. **Prerequisite:** First professional year standing.

**PHARM 4832 HEALTH CARE SYSTEMS**

Two hours 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 4912 PROFESSIONAL ETHICS**

Two hours lecture. This course acquaints the student with problems to be faced upon entry into professional practice and how professional ethics help lay the groundwork for future success in pharmacy practice. **Prerequisite:** First professional year standing.

**PHARM 5802 CURRENT TOPICS IN PHARMACY ADMINISTRATION**

Two hours 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 5823 PHARMACY ADMINISTRATION**

Three hours lecture. An introduction to administrative theory and processes essential for understanding and controlling basic managerial problems generally encountered in pharmacy operations. Techniques of managing specific elements of pharmacy practice are developed and discussed. **Prerequisite-site:** First professional year standing

**PHARM 5833 PHARMACEUTICAL MARKETING**

Three hours lecture. A study of the development of a drug from its initial idea through its removal from the market. The development includes a study of marketing methods and institutions; descriptive characteristics of recipient and provider populations and regulations which have a direct and indirect effect on industrial, institutional, and community practice. **Prerequisites:** PHARM 3123 and 3803.

**PHARM 5843 JURISPRUDENCE**

Three hours lecture. A survey of federal and state laws and regulations which pertain to the practice of pharmacy. Business law and liability issues which affect the practice of pharmacy will also be explored. **Prerequisite:** Third professional year standing.

**PHARM 5902 FINANCIAL MANAGEMENT FOR THE PHARMACIST**

Two hours lecture. A study of financial planning, investment analysis, tax analysis, budgeting, and other financial aspects of pharmacy. **Prerequisites:** PHARM 3803.





# 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 ALLIED HEALTH SCIENCES

The Allied Health curricula are structured to provide competence in certain allied health sciences with majors in Athletic Training, Health Information Management, Health Care Administration, Health Science, and Medical Technology. Bachelor of Science degrees may be obtained in each of the majors listed above. (IAV = Interactive Video available at select sites.)

### Allied Health Sciences

#### 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 2442 MEDICAL TERMINOLOGY

A course designed to teach prefixes, suffixes, and root-words of Greek and/or Latin origin frequently used in medical terminology. Understanding of word part combination practices, pronunciation, spelling, and common medical abbreviations is presented. Two hours of lecture per week. **F, S, 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 techniques and demonstrations of formulas used by health care facilities. Three hours of lecture per week with some in class application studies. Offered once each year.

#### ALHLT 3052 ADVANCED MEDICAL TERMINOLOGY I

This course focuses on specific medical terms used in diagnoses and treatments. It covers areas of medical science, hospital and clinical laboratory services, and pharmacology. Two hours of lecture per week. **Prerequisite: ALHLT 2442. F**

#### ALHLT 3072 ADVANCED MEDICAL TERMINOLOGY II

A continuation of ALHLT 3052. Two hours lecture per week. **Prerequisite: ALHLT 2442. S**

#### ALHLT 3193 HEALTH CARE DELIVERY

A study of the health care delivery system in the United States, including health care facilities, methods of governance, regulatory agencies, government legislation affecting health care, types of service providers, and other information specific to health care regulation. Three hours of lecture per week. **F, S (IAV)**

#### ALHLT 3933 MANAGEMENT OF HEALTH CARE INSTITUTIONS

A study of different management applications and managerial principles specific to health care institutions including labor relations and financial management. Three hours of lecture per week. **F, S (IAV)**

#### ALHLT 3963 HEALTH CARE ADMINISTRATION

Considers topics of administration including DRGs, prospective payment system, medical staff, accreditation, licensure, and certification of health care facilities. Three hours of lecture per week. **S**

#### ALHLT 3971-8 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. Completed during breaks, interims, or summer. Credit one to eight semester hours. **Prerequisites: ALHLT 3193 and 3963. F, S, SU**

#### ALHLT 4043 MEDICOLEGAL CONCEPTS

A study of the principles of law applied to the health field with particular reference to health information. Three hours of lecture per week. **F**

#### ALHLT 4063 PATHOPHYSIOLOGY I

This course analyzes structure and function of the human body related to disease and injury. Three hours of lecture per week. **Prerequisite: ALHLT 2442. Previous course in Human Anatomy and Physiology recommended. F**

#### ALHLT 4073 PATHOPHYSIOLOGY II

Continuation of ALHLT 4063. Three hours of lecture per week. **Prerequisite: ALHLT 2442. Previous course in Human Anatomy and Physiology recommended. S**

#### ALHLT 4802 HISTORY OF MEDICINE

An introduction to medicine from its beginning to the present day. This course covers the great milestones of Medicine, the emergence of the medical profession, the reform and expansion of medical schools – to the current era of management care. **S**

#### ALHLT 4872 HOMINOLOGY

An interdisciplinary study of the origins of mankind with discussions of evolution and creation. The archaeological record of early man will be presented along with early man's accomplishments and the mysteries that remain. **F**

### Athletic Training Education Program ATEP/HPE Professional Athletic Training Courses

#### ATEP 1922 INTRODUCTION TO ATHLETIC TRAINING

An introductory course for the individual interested in Athletic Training as a career. The profession of Athletic Training, history of the profession, practice opportunities, and SWOSU educational and clinical requirements are included. Observation of an Approved Certified Trainer is a component of this course. **F, S, SU**

#### ATEP 2433 ATHLETIC TRAINING CARE AND PREVENTION OF ATHLETIC INJURIES

Prevention, recognition, and management of athletic injury. Study of mechanisms of injury, environmental factors, predisposing conditions, and preventative measures. Basic wrapping, taping, and padding techniques are presented and performed. Course includes laboratory experiences. **F**

#### ATEP 3723 ADVANCED ATHLETIC TRAINING

Foundational knowledge and skills necessary for comprehensive evaluation of athletic injury and illness. Recognition and management of medical conditions affecting athletic participants. Ascertaining medical history, the use of evaluative tools, knowledge of various conditions and diseases, and clinical evaluation techniques for neurological and musculoskeletal disorders. **S**

#### **ATEP 3733 PRACTICUM IN ASSESSMENT OF INJURY**

The provision of a structured clinical environment to compliment ATEP 4344, ATEP 3723 in the recognition and management of medical conditions affecting athletic participants. Including medical history, use of evaluative tools, knowledge of various conditions and diseases and clinical evaluation techniques for neurological and musculoskeletal disorders. Weekly 1 hour proficiency evaluation and clinical integration of skills, under direct supervision of clinical instructor, during assigned clinical rotations are essential components of this course. **Corequisite: ATEP 4344 for Athletic Training majors. F**

#### **ATEP 3743 ATHLETIC TRAINING REHABILITATION**

Essentials, principles, and concepts of rehabilitation/reconditioning. Specific exercise, examination, techniques, and record keeping pertaining to the process of rehabilitation are included in the course. With concurrent enrollment in Practicum in Therapeutic Intervention, the student will gain practical experiences pertaining to concepts presented in the class. **S**

#### **ATEP 3753 PRACTICUM IN THERAPEUTIC INTERVENTION**

The provision of a structured clinical environment to complement ATEP 4433, ATEP 3743 in the therapeutic use of modalities and exercise following injury. Weekly one hour proficiency evaluation and clinical integration of skills, under direct supervision of clinical instructor, during assigned clinical rotations are essential components of this course. **Concurrent enrollment in ATEP 3743 for Athletic Training majors. S**

#### **ATEP 4323 ATHLETIC TRAINING PHARMACOLOGY**

Lecture and discussion regarding how various commonly used drugs and supplements can affect performance in their patients and athletes. Practical guidelines are offered so that future professionals can closely monitor and circumvent adverse reactions to drug therapies. The class covers cardiopulmonary agents, hormonal agents, metabolic, and socially used drugs. **F**

#### **ATEP 4344 ATHLETIC TRAINING EVALUATION OF ORTHOPEDIC INJURY**

Musculoskeletal and orthopedic evaluation of the extremities. Understanding of factors that predispose abnormal motion. Applications of principles and sciences to movement dysfunction and evaluation of this dysfunction are a primary emphasis. The understanding of kinesiology and particularly pathokinesiology are of primary importance to athletic training students. **F**

#### **ATEP 4433 ATHLETIC TRAINING MODALITIES**

Provides the theoretical background for clinical application of therapeutic modalities. Imparts the knowledge necessary to exhibit reasoning skills regarding the use of modalities in the treatment protocol of a active individuals. Course includes laboratory experiences. **F**

#### **ATEP 4591-8 INTERNSHIP IN ATHLETIC TRAINING**

The provision of a structured clinical or field experience environment to compliment didactic coursework in athletic training. This internship serves as a culmination of the entire student athletic training experience. The student will gain exposure in the clinical and/or outreach opportunities available in the field of Athletic Training.

#### **ATEP 4722 ADMINISTRATIVE ISSUES IN ATHLETIC TRAINING**

Fosters acquisition of administrative and organizational techniques necessary to direct an athletic training facility. Basic concepts include financial management, legal liability, insurance processing, facility design, personnel management, and professional involvement. Concurrent enrollment in Application of Athletic Training ATEP 4823. **F**

#### **ATEP 4813 APPLICATION OF ATHLETIC TRAINING I**

The provision of a structured clinical environment to complement previous athletic training coursework. This course serves as a senior level culmination of the entire athletic training educational program. While enrolled in this course, the student will gain experience in clinical settings while applying and mastering the entry level competencies and proficiencies for the athletic trainer. **F**

#### **ATEP 4823 APPLICATION OF ATHLETIC TRAINING II**

The provision of a structured clinical environment to complement previous athletic training coursework. This course serves as a senior level culmination of the entire athletic training educational program. While enrolled in this course, the student will gain experience in clinical settings while applying and mastering the entry level competencies and proficiencies for the athletic trainer. **S**

### **Health Information Management Program Professional Health Information Management Courses**

#### **MEDRC 3023 HEALTH INFORMATION SYSTEMS**

An introduction to the impact and applications of computers in health information, including systems analysis and design, electronic health record systems and the computerized medical record. **Corequisite: MEDRC 3023L. Prerequisites: GEBUS 2723 and senior standing, HIM Program. F**

#### **MEDRC 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: MEDRC 3033L. Prerequisite: Junior standing, HIM program. F**

#### **MEDRC 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. Available for senior HIM students or by permission of instructor. The course includes two hours of lecture and three hours of lab per week. **Corequisite: MEDRCF 333L. F**

#### **MEDRC 3342 CODING II**

This course provides information on CPT coding principles and the outpatient prospective payment system. Available for HIM students or by permission of instructor. The course includes four hours of lecture per week for the first eight weeks. **S**

#### **MEDRC 4112 QUALITY IMPROVEMENT**

This course provides a look at quality/performance improvement activities as a routine function of each hospital department. Development of an overall quality/performance improvement program is discussed, referencing the requirements of the Joint Commission on Accreditation of Healthcare Organizations. Two hours of lecture per week. **F**

#### **MEDRC 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: MEDRC 4023L. F**

#### **MEDRC 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. **Corequisite: MEDRC 4033L. Prerequisite: Senior standing, HIM Program. S**

**MEDRC 4051 CLINICAL 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. **Prerequisite: Junior standing HIM Program.**

**MEDRC 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.

**MEDRC 4082 HIM SEMINAR**

Designed as a capstone course to prepare students to recognize, evaluate, and handle effectively professional & administrative challenges faced in health information management applications. Four hours of lecture per week for the first eight weeks.

**Prerequisite: Senior standing, HIM Program. S**

**Medical Technology—Microbiology****ALHLT 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. Three hours of lecture and four hours of lab per week.

**Corequisite: ALHLT 4355L. Prerequisites: BIOL 1004 or 1054, and CHEM 1203 and 1252 or CHEM 1004. F, S, SU**

**ALHLT 4093 EPIDEMIOLOGY**

The scientific study of the factors that influence the occurrence, distribution, control, and prevention of disease. Emphasis is on infectious disease problems, but non-infectious diseases are considered. Three hours of lecture per week.

**Prerequisite: ALHLT 4355. F, S, SU (IAV S only)**

**ALHLT 4213 IMMUNOLOGY**

The study of the body's immune system and its relationship to health and disease. Three hours of lecture per week.

**Prerequisite: ALHLT 4355. F,S**

**ALHLT 4404 PATHOGENIC MICROBIOLOGY**

A study of pathogenic microorganisms, molecular mechanisms of pathogenicity, disease pathology and medical diagnostic procedures. Two hours of lecture and four hours of lab per week.

**Prerequisite: ALHLT 4355. SO**

**ALHLT 4453 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. Three hours of lecture per week.

**Prerequisite: ALHLT 4355. FE**

**ALHLT 4503 MICROBIAL PHYSIOLOGY**

The study of the physiological and biochemical activities of bacteria emphasizing structure, function, and control mechanisms. Emphasis will be placed on basic as well as new findings in structural and functional physiology of bacteria. Three hours lecture per week.

**Prerequisite: ALHLT 4355. D**

**ALHLT 4523 ENVIRONMENTAL MICROBIOLOGY**

The study of the interrelationship between man, microorganisms and the environment. Areas of study will be air, water, soil, and special environments such as industrial and domestic wastes. The interaction of microbes with plants and animals is considered. Three hours lecture and two hours of lab per week.

**Corequisite: ALHLT4523L. Prerequisite: ALHLT 4355. SE**

**Medical Technology/Clinical Laboratory  
Scientist Clinical Courses  
(Taught only at MT/CLS accredited hospitals)**

**MT 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.

**MT 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.

**MT 4236 CLINICAL HEMATOLOGY**

Lecture and supervised laboratory instruction in routine and special hematology studies correlating hematological findings with medical significance. Includes quality control, computer application, instrumentation, quality assurance/improvement, and safety regulations.

**MT 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 immunochemistry methodology with emphasis of clinical decisions and medical significance; including quality control, computer application, instrumentation, quality assurance/improvement, safety and governmental regulations.

**MT 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.

**MT 4351 TOPICS IN MEDICAL TECHNOLOGY**

Lectures on principles and practices of the Medical Laboratory 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.

# SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

## EDUCATION

### 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 and Professional Semester. F, S**

#### **EDUC 4021 CRITICAL 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 knowledge, skills, and resources in the following categories: Student Teaching; Philosophies of Teaching; Legal Aspects; Parent/Community Outreach; Portfolios and Journals; Placement Files and Interview Opportunities; Burn-Out Prevention; Problem-Solving Skills and Reflective Practices; and Collaboration with Practitioners to link Theoretical Foundations with Classroom Practice. 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**

The study of effective methods of classroom discipline and management. A study of methodology of dealing with discipline problems, at-risk students, and juvenile behavior. **Prerequisite: Admission to Teacher Education Program and Professional Semester. F, S**

#### **VOCED 4133 CURRICULAR ISSUES IN VOCATIONAL EDUCATION**

A study of various curriculum issues, problems, and areas relevant to vocational education.

#### **EDUC 5001-4 INDEPENDENT STUDY IN EDUCATION (TOPIC)**

Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program.**

#### **EDUC 5011-4 SEMINAR IN EDUCATION (TOPIC)**

Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program.**

#### **EDUC 5113 INTRODUCTION TO RESEARCH**

The student is introduced to literature and techniques of research, with instruction on becoming an informed consumer of research studies. An important emphasis of the course is the application of research to professional practice. **Prerequisite: Admission to Graduate School.**

## Early Childhood

#### **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. **Prerequisite: Admission to Teacher Education Program. F, SU**

#### **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. S, SU**

#### **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. F, SU**

#### **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, SU**

#### **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 4613 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.) **Prerequisites: Admission to Teacher Education Program and ECED 4533.**

#### **ECED 5162 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 Graduate Program.**

#### **ECED 5612 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 and one hour conference.) **Prerequisites: Admission to Graduate Program and ECED 4533. SU**

## 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 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. **Prerequisite:** Admission to Teacher Education Program. 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

**ELEM 5513 TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL**

Problems, trends, issues and research in elementary mathematics and their relationship in modern educational practices. **Prerequisites:** Admission to Graduate Program and ELEM 3513. D

**ELEM 5693 TEACHING IN THE ELEMENTARY SCHOOL**

Identification and analysis of the prevalent problems, including trends and issues encountered while teaching in the elementary school. Individual investigation of problems is performed by the students. 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

**RDNG 5413 FOUNDATIONS OF READING**

Comprehensive study of the physical, sociocultural, and psychological foundations of reading and principles of language relationships and their creative understandings. **Prerequisite:** Admission to Graduate Program. D

**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 INTRODUCTION TO SPECIAL EDUCATION**

Study of the causative-correlation factors, physical and emotional characteristics of students with disabilities at each developmental level. Special emphasis is placed on the issues and trends surrounding the identification and educational need of the students with disabilities. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

**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, S, SU

**SPCED 4163 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH SEVERE, PROFOUND OR MULTIPLE DISABILITIES**

A field based course which concentrates on the study, development, and practice of teaching techniques, instructional strategies and curriculum models for teaching students with severe or profound levels of disability 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 4223 DETECTING & CORRECTING SPECIAL PROBLEMS IN THE INCLUSIVE CLASSROOM**

Strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of the exceptional child in the inclusive classroom and community. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

**SPCED 4362 LEGAL & ETHICAL PRACTICES IN SPECIAL EDUCATION**

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. S

**SPCED 4623 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH MILD OR MODERATE DISABILITIES**

A field based course concentrating on the study, development and practice of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate levels of disability 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 4762 TECHNOLOGY IN SPECIAL EDUCATION**

Study of assistive technology utilized in schools to enable children with disabilities to maximize their learning potential. The student is familiarized with all dimensions of AT from computer assisted instruction to cause effect switches. **Prerequisite:** Admission to Teacher Education Program. S

**SPCED 4811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES (CAMP)**

Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite:** Admission to Teacher Education Program. SU

**SPCED 4821 PRACTICUM - MILD OR MODERATE DISABILITIES (CAMP)**

Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite:** Admission to Teacher Education Program. SU

**SPCED 4852 ENHANCING COMMUNICATION AND COLLABORATION IN THE TRANSITIONAL PROCESS**

Study of educational strategies and curriculum models for secondary special needs students, and transitional programs from birth to adulthood. **Prerequisite:** Admission to Teacher Education Program. F, SU

**SPCED 4862 PLANNING AND MANAGING THE TEACHING ENVIRONMENT**

Study of curriculum issues and instructional strategies for teaching special needs students in a variety of classroom settings. Emphasis is placed on writing the Individual Education Plan and its components (transition plans, behavior plans and modification to instruction). **Prerequisite:** Admission to Teacher Education Program. S

**SPCED 5163 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH SEVERE, PROFOUND OR MULTIPLE DISABILITIES**

A field based course which concentrates on the study, development, and practice of teaching techniques, instructional strategies and curriculum models for teaching students with severe or profound levels of disability 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 Graduate Program. F

**SPCED 5213 INTRODUCTION TO SPECIAL EDUCATION**

Study of the causative-correlation factors, physical and emotional characteristics of students with disabilities at each developmental level. Special emphasis is placed on the issues and trends surrounding the identification and educational need of the students with disabilities. **Prerequisite:** Admission to Graduate Program. F, S, SU

**SPCED 5223 DETECTING & CORRECTING SPECIAL PROBLEMS IN THE INCLUSIVE CLASSROOM**

Strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of the exceptional child in the inclusive classroom and community. **Prerequisite:** Admission to Graduate Program. F, SU

**SPCED 5362 LEGAL & ETHICAL PRACTICES IN SPECIAL EDUCATION**

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 Graduate Program. S

**SPCED 5433 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. **Prerequisites:** Admission to Graduate Program. F, SU

**SPCED 5462 PSYCHOMETRICAL SERVICES**

Study of the ethics, legal responsibilities, role, and functions of psychometrists in various settings. **Prerequisites:** Admission to Graduate Program, Advisor Approval, SPCED 3433, SPCED 5562, SPCED 5613, and SPCED 5713. F, S, SU

**SPCED 5562 SPECIAL DIAGNOSTIC METHODS (SCHOOL PSYCHOMETRY)**

Study of procedures utilized in a comprehensive evaluation for placement in special education. Students will administer, score, and interpret assessment instruments to determine handicapping conditions. **Prerequisite:** Admission to Graduate Program and Advisor Approval. S

**SPCED 5613 THE STANFORD BINET/WOODCOCK-JOHNSON**

Study of the historical development, validation procedures, & test content of the Stanford Binet Intelligence Scale. Students will administer, score, and interpret the Stanford Binet Intelligence Scale-R and the Woodcock Johnson. **Prerequisites:** Admission to Graduate Program, Advisor Approval, and SPCED 3433. S

**SPCED 5623 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH MILD OR MODERATE DISABILITIES**

A field based course concentrating on the study, development and practice of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate levels of disability 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 Graduate Program. F

**SPCED 5713 WECHSLER INTELLIGENCE SCALES**

Study of the historical development, validation procedures, and test content of the various Wechsler Intelligence Scales. Students will administer, score and interpret the various Wechsler Intelligence Scales. **Prerequisites:** Admission to Graduate Program, Advisor Approval, and SPCED 3433. F, SU

**SPCED 5762 TECHNOLOGY IN SPECIAL EDUCATION**

Study of assistive technology utilized in schools to enable children with disabilities to maximize their learning potential. The student is familiarized with all dimensions of AT from computer assisted instruction to cause effect switches. **Prerequisite:** Admission to Graduate Program. S

**SPCED 5782 PRACTICUM SCHOOL PSYCHOMETRY**

Supervised experience in the administration, scoring, and interpretation of various individual intelligence scales and other diagnostic assessment instruments. Credit 1-4 semester hours.

**Prerequisites:** Admission to Graduate Program, Advisor Approval, SPCED 3433, SPCED 5562, SPCED 5613, and SPCED 5713. F, S, SU

**SPCED 5811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES (CAMP)**

Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities.

**Prerequisite:** Admission to Graduate Program. SU

**SPCED 5821 PRACTICUM - MILD OR MODERATE DISABILITIES (CAMP)**

Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities.

**Prerequisite:** Admission to Graduate Program. SU

**SPCED 5852 ENHANCING COMMUNICATION AND COLLABORATION IN THE TRANSITIONAL PROCESS**

Study of educational strategies and curriculum models for secondary special needs students, and transitional programs from birth to adulthood. **Prerequisite:** Admission to Graduate Program. F, SU

**SPCED 5862 PLANNING AND MANAGING THE TEACHING ENVIRONMENT**

Study of curriculum issues and instructional strategies for teaching special needs students in a variety of classroom settings. Emphasis is placed on writing the Individual Education Plan and its components (transition plans, Behavior plans and modification to instruction). **Prerequisite:** Admission to Graduate Program. S

**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 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

**SECED 5833 TEACHING IN SECONDARY SCHOOL**

Intensive study of teaching methods, current problems, and implications of newer practices in secondary education. F, S, SU

**Educational Administration****EDAD 5233 FUNDAMENTALS OF CURRICULUM PLANNING**

Explores critical elements of curriculum planning and implementation for educational administrators. Interrelationships among past, present, and future perspectives are emphasized through articles written by leading curriculum experts. Emphasis is on the processes of planning, developing, and implementing essential curriculum in the schools. **Prerequisite:** Admission to Graduate School. F, SU

**EDAD 5313 SCHOOL PERSONNEL ADMINISTRATION**

Fundamental concepts of the personnel function in the public school with emphasis on recruitment, selection, placement, professional development, and dismissal of teachers, certified and non-certified staff. **Prerequisite:** Admission to Graduate Program. S, SU

**EDAD 5412 INTERNSHIP IN EDUCATIONAL ADMINISTRATION (PRINCIPAL)**

This course is designed to give practical, current experiences at the school site to the student who aspires to be a public school principal. Administrator activities such as finance, personnel, facilities, organization, and curriculum and others guided by the sponsoring school site administrator and the university supervisor will be emphasized. **Prerequisite:** Completion of 12 hours in Educational Administration. F, S

**EDAD 5613 EDUCATIONAL ADMINISTRATION THEORY**

The course provides students with the theoretical knowledge essential for the effective school administrator. Students explore theoretical aspects of systems and organizations, school climate, leadership, communication, strategic planning, problem solving and decision making, change, dealing with conflict, and community involvement. **Prerequisite:** Admission to Graduate School. S, SU

**EDAD 5813 SUPERVISION OF INSTRUCTION**

Theory and concepts of modern school supervision applied to situations in which administrators, supervisors, coordinators, and teachers are working in the public schools today. **Prerequisite:** Admission to Graduate Program. S, SU

**EDAD 5933 THE PRINCIPALSHIP**

Public school management systems are emphasized including patterns of development/organization, activities, theories and practices, staff development, and reporting procedures, e.g., accreditation, attendance child count, transportation and federal regulations. **Prerequisite:** Admission to Graduate Program. F, SU

**EDAD 5973 PUBLIC SCHOOL FINANCE**

A study of the theories and practices of public school finance including budgeting, cost analysis, supplies, and financial controls from the local, state, and national levels. **Prerequisite:** Admission to Graduate Program. F, SU

**EDAD 5983 PUBLIC SCHOOL LAW**

Critical study of the legal aspects of public school education with special reference to continuing and contemporary statutes of immediate concern to public school teachers, administrators, counselors, and staff. **Prerequisite:** Admission to Graduate Program. S, SU

**Counseling****COUN 4011-4 SEMINAR IN COUNSELING (TOPIC)**

Group study of specified topic. Credit one to four semester hours.

**COUN 5011-4 SEMINAR IN COUNSELING (TOPIC)**

Group study of specified topic. One to four credit hours. **Prerequisite:** By permission only. SU



**COUN 5213 COMMUNITY COUNSELING**

A course for prospective community counselors designed to investigate the special characteristics and functions of community counseling. S, SU

**COUN 5223 FAMILY RESOURCE MANAGEMENT**

Application of counseling and management principles for maximization of family resources. Emphasis on human, non-human, time and environmental resources of the contemporary family. S

**COUN 5313 ASSESSMENT AND APPRAISAL**

Includes group and individual appraisal techniques to be used to support career, education, psychological, and personal planning and development. Standardized and non-standardized data information gathering methods, validity, reliability, psychometric statistics, factors, influencing appraisals, and use and interpretation of appraisal results with a variety of populations will be discussed. **Prerequisites:** COUN 5513, COUN 5543, & COUN 5553, Admission to Graduate Program. F, SU

**COUN 5363 PARENTING PERSPECTIVES**

A study of the roles and responsibilities of parents and the parenting process throughout the lifespan. The course includes information pertaining to styles of parenting; special parenting concerns; differing lifestyles; cross-cultural families; techniques and methods for parents, clinicians, and teachers; and available resources and programs. S

**COUN 5373 THEORIES/TECHNIQUES OF FAMILY COUNSELING**

A survey of family counseling theories and techniques with special emphasis on family relationships, assessment, intervention, and treatment. F, SU

**COUN 5423 MULTICULTURAL CONCEPTS**

This course is designed to prepare individuals for multicultural competence in a global society. The curriculum will engage students in theoretical, experiential, and research-oriented experiences in order to develop a comprehensive multicultural understanding that will lead to effective and ethical practice. **Prerequisite:** Admission to Graduate Program. S, SU

**COUN 5503 DEVELOPMENT OF SCHOOL GUIDANCE PROGRAM**

Designed for prospective school counselors to improve interpersonal skills, investigate the characteristics and functions of school counseling and program development. **Prerequisite:** Admission to Graduate Program. F, SU

**COUN 5513 INTRODUCTION TO COUNSELING AND GUIDANCE**

Introduction to guidance programs in community counseling centers and the elementary and secondary school as it involves the teacher, counselor, and administrators. F, S, SU

**COUN 5523 CAREER EDUCATION FOR COUNSELORS AND TEACHERS**

A course designed for counselors, teachers, guidance directors, school administrators, media specialists, and persons working in employment assistance, vocational, and life planning and development areas. Course information is oriented relative to educational and world-of-work opportunities including knowledge relative to labor market information & including current and projected economic trends. **Prerequisite:** Admission to Graduate Program. S, SU

**COUN 5543 THEORIES OF COUNSELING**

Designed to teach individual counseling theories and techniques. Application to community and public school counseling programs is stressed. **Prerequisite:** F, SU

**COUN 5553 THEORIES AND TECHNIQUES OF GROUP COUNSELING**

Designed to teach group counseling techniques appropriate to group counseling. Application to agency and public school counseling programs stressed. **Prerequisite:** Admission to Graduate Program. F, SU

**COUN 5563 PRACTICUM IN COUNSELING**

Course includes practical application of knowledge and techniques learned in previous course work to be applied in schools and/or community agency settings. Requires 100 hours of field experience and a grade of "B" or better for successful completion. **Prerequisites:** 30 credit hours in Counseling and/or instructor approval, Admission to Graduate Program. F, S

**COUN 5583 PREPRACTICUM COUNSELING TECHNIQUES**

The study and practice of foundational counseling techniques including micro-counseling and role-playing. **Prerequisite:** Admission to Graduate Program. F, SU

**COUN 5593 ADVANCED TESTS AND MEASUREMENTS**

A course designed to give educators and counselors advanced understanding of tests and measurement issues, design, development and interpretation for diagnosis and/or educational purposes. **Prerequisite:** Admission to Graduate Program. S, SU

**COUN 5611 INTERNSHIP IN COUNSELING A**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites:** Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S

**COUN 5621 INTERNSHIP IN COUNSELING B**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites:** Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S

**COUN 5631 INTERNSHIP IN COUNSELING C**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites:** Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S

**COUN 5641 INTERNSHIP IN COUNSELING D**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites:** Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S

### **COUN 5651 INTERNSHIP IN COUNSELING E**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites: Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S**

### **COUN 5661 INTERNSHIP IN COUNSELING F**

Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. CACREP guidelines require 600 hours of field experience. Successful completion of each internship course equals 100 hours and requires a grade of "B" or better. **Prerequisites: Admission to Graduate Program; Completion of Practicum with a minimum grade of "B" or better. F, S**

### **COUN 5773 THE DYNAMICS OF SMALL GROUPS**

Study of basic elements in the group process with a focus on stages of group development, group dynamics, and group leadership development with a supervised practice facilitating groups. **Prerequisite: Admission to Graduate Program. F**

### **COUN 5783 PRACTICUM IN COUNSELING/TESTING**

Supervised classroom and field experience in the administration and interpretation of various individual and group assessment instruments. **Prerequisite: By permission only. S**

### **COUN 5873 FAMILY VIOLENCE**

An examination of family stress and violence, causative factors, preventative and intervention methods, and assessment/ treatment. **S**

### **COUN 5883 ISSUES IN FAMILY COUNSELING**

Examination of the effects of violence, grief and loss, chemical dependency and issues of sexuality on family dynamics and their impacts on families across the lifespan. **F**

### **COUN 5893 ETHICAL, LEGAL AND PROFESSIONAL STANDARDS**

An examination of the objectives of professional organizations, codes of ethics, legal aspects of practice, family law, standards of preparation and the role identity of persons providing direct counseling services. **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**

### **LIBED 5472 ADVANCED MEDIA AND TECHNOLOGY**

Students will develop advanced skills in the utilization of media equipment and materials production using the computer. Microsoft Office and the Internet will be utilized as an instructional technique. Techniques will also be developed in teaching methods to utilize multimedia in an educational setting. **Prerequisite: Admission to Graduate Program. D**

## **HEALTH AND PHYSICAL EDUCATION**

### **HPE 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**

### **HPE 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, S**

### **HPE 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**

### **HPE 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**

### **HPE 1221 INTERMEDIATE SWIMMING**

Review of beginning strokes and skills. Additional strokes and instruction in personal safety skills and skills in basic assistance to others. **Prerequisite: HPE 1201 or equivalent. D**

### **HPE 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**

### **HPE 1371 INTERMEDIATE BOWLING**

Advanced skills and advanced forms of competition and league play. **Prerequisite: HPE 1351 or equivalent. D**

### **HPE 1391 CROSS COUNTRY**

**Prerequisite: Varsity participation. F, S**

### **HPE 1411 ELEMENTARY GOLF**

The fundamental skills of golf including instruction in stance, strokes, clubs, rules, terminology, etiquette, scoring, etc. **SU**

### **HPE 1471 ELEMENTARY TENNIS**

Basic instruction in the theory and practice of skills, rules, terminology, etiquette, and game strategy for singles and doubles play. **D**

### **HPE 1481 INTERMEDIATE TENNIS**

Continuation of basic course with emphasis on practice of advanced strokes, serves, rules, and tournament competition. **Prerequisite: HPE 1471 or equivalent. D**

### **HPE 1511 PHYSICAL FITNESS**

Designed more for male students. Theory and practice of aerobic and weight training activities with learning experiences designed to promote individual fitness. **D**

**HPE 1621 SOFTBALL**

**Prerequisite:** Participation in varsity intercollegiate softball.  
**F**

**HPE 1631 BASEBALL**

**Prerequisite:** Varsity participation. **F**

**HPE 1661 BASKETBALL**

**Prerequisite:** Varsity participation. **F**

**HPE 1691 FOOTBALL**

**Prerequisite:** Varsity participation. **F**

**HPE 1721 TRACK**

**Prerequisite:** Varsity participation. **F**

**HPE 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**

**HPE 1781 TEAM SPORTS**

Instruction and practice in the following team sports: Basketball, softball, and track and field. **D**

**HPE 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**

**HPE 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**

**HPE 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**

**HPE 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**

**HPE 2111 RACQUETBALL**

Designed for both male and female participants. Basic instruction in skills, techniques and strategies essential for play in the sport. **D**

**HPE 2121 JOGGING**

Personal participation to improve cardiovascular fitness, development of self-testing techniques, and appreciation of personal fitness. **D**

**HPE 2131 GYMNASTICS**

Instruction in beginning and intermediate tumbling skills. Apparatus skills on the balance beam, vaulting, uneven bars, and trampoline. **D**

**HPE 2141 RODEO**

**Prerequisite:** Varsity participation. **F, S**

**HPE 2212 FIRST AID**

Knowledge in accident prevention, emergency treatment, and care of injuries and illness. American Red Cross standards. **F, S**

**HPE 2222 FOUNDATIONS OF HEALTH, PHYSICAL EDUCATION AND RECREATION**

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 activities. **F, S**

**HPE 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. **S**

**HPE 2502 CARE AND PREVENTION OF ATHLETIC INJURIES**

A study of preventive measures in the athletic and physical education programs. **F, S**

**HPE 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**

**HPE 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. **F, S**

**HPE 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**

**HPE 3342 INNOVATIONS IN DRIVER AND TRAFFIC SAFETY EDUCATION**

A survey of recent innovations in driver and traffic safety education. The course will bring together developments in automobile safety, and new techniques and skills in providing safety education to the driver. **D**

**HPE 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**

**HPE 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. **F, S, SU**

**HPE 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**

**HPE 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**

**HPE 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. **D**

**HPE 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. **D**

**HPE 4073 EVALUATION IN PHYSICAL EDUCATION**

Knowledge and principles in techniques of evaluation and measurement and test construction in physical education. **D**

**HPE 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**

**HPE 4122 ORGANIZATION AND ADMINISTRATION OF ATHLETICS**

A study of the organization and administration of athletic programs for the public schools and colleges. **D**

**HPE 4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS**

A study of the content and conduct of intramural sports. Practical experience. **F, S**

**HPE 4233 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**

**HPE 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, S**

**HPE 4251 INTERMEDIATE RODEO**

Varsity rodeo participation. **F, S**

**HPE 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**

**HPE 4273 DRIVERS EDUCATION I**

Problems, techniques, and methods of teaching driver education in the secondary schools. **D**

**HPE 4333 PRINCIPLES & HISTORY OF HEALTH, 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**

**HPE 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**

**HPE 4362 TRAFFIC COURTS & LAW ENFORCEMENT**

The study of traffic courts and law enforcement at the local, state, and federal level in regard to methodology, jurisdiction, transition, and relationship to our lives and culture. The course will draw on local, state, and federal agents of the courts and our society for additional and recent changes. **D**

**HPE 4373 DRIVER EDUCATION II**

Practical application of theory from HPE 4273. **Prerequisite: HPE 4273. D**

**HPE 4443 METHODS OF TEACHING SAFETY EDUCATION**

Methods and materials in the conduct of public school safety program. **D**

**HPE 4541 CAPSTONE EXPERIENCE IN HPER**

The Capstone Experience in Health, Physical Education and Recreation 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.

**HPE 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. F, S**

**HPE 4802 THEORY OF COACHING FOOTBALL**

Designed more for male students. Knowledge and preparation in techniques and methods of coaching football. **F, S**

**HPE 4832 THEORY OF COACHING BASKETBALL**

Fundamentals and techniques applied to coaching basketball. **F, S**

**HPE 4842 THEORY OF COACHING WOMEN'S BASKETBALL**

Fundamentals and techniques applied to coaching women's basketball. **D**

**HPE 4862 THEORY OF COACHING BASEBALL**

Knowledge and preparation in techniques and methods applied to coaching baseball. **F, S**

**HPE 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**

**HPE 4892 THEORY OF COACHING TRACK & MINOR SPORTS**

A study of the techniques of coaching track and minor sports. **D**

**HPE 5001-4 INDIVIDUAL STUDY IN HEALTH AND PHYSICAL EDUCATION (TOPIC)**

Individual study of specified topic in health, physical education, and recreation for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

**HPE 5011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION (TOPIC)**

Group study of specified topic in health, physical education, and recreation for graduate students. Credit one to four hours. **D**

**HPE 5223 PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION**

Problem identification and solution in these areas of specialization are pursued. **Prerequisite:** Admission to the Graduate Program. **D**

**PARKS AND RECREATION MANAGEMENT**

**PRM 1281 WATER SAFETY (SAILING AND CANOEING)**

Basic instruction and practice in techniques applied to sailing, canoeing, and safety skills. **D**

**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 2151 SWIMMING**

Recreational swim; instruction in basic and advanced strokes. **D**

**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 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, SU**

**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. **SU**

**PRM 3162 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). **D**

**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 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 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 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 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 4163 COMMUNITY RECREATION**

Organization and administration of community based parks and recreation areas, facilities, and programs. **F, S**

**PRM 4201 THE PARK RANGER**

Theory and practice of park law enforcement.

**PRM 4211 GAME AND FISH LAW**

Introduction to federal and state laws pertaining to game and fish management.

**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 4502 RODEO MANAGEMENT**

Theory and practice of rodeo management. Includes rodeo planning, marketing, and execution.

**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 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 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**

**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**

**PRM 5103 INTERNSHIP IN PARKS AND RECREATION MANAGEMENT**

Graduate students serve an internship in parks and recreation management with a federal, state, local, or non-profit agency.

**PRM 5113 INTERNSHIP IN SPORTS MANAGEMENT**

Graduate students serve an internship in sports management in a selected setting.

**PRM 5203 RESEARCH IN PARKS AND RECREATION MANAGEMENT**

Research in a parks and recreation management topic are assigned.

**PRM 5213 RESEARCH IN SPORTS MANAGEMENT**

Research in a sports management topic as assigned.

**PRM 5902 DIRECTED READINGS IN PARKS AND RECREATION MANAGEMENT**

Directed readings in parks and recreation management as assigned by the instructor.

**PRM 5912 DIRECTED READINGS IN SPORTS MANAGEMENT**

Directed readings in sports management topics as assigned by the instructor.

**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 2413 ADVANCED GENERAL PSYCHOLOGY**

A detailed exploration of the fields of application of psychology with an emphasis on understanding the many career paths available to psychologists. **F, S**

**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. The understanding and application of descriptive and inferential statistics. Covers topics from central tendency to analysis of variance. **Prerequisite: PSYCH 1003. F, S**

**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**

Introduction to major types of designs and laboratory techniques employed in psychological experimentation. Emphasis is placed on methods used in memory and perception research. **Prerequisite: PSYCH 1003 and PSYCH 2433. F, S**

**PSYCH 3233 LEARNING AND COGNITION**

Overview of traditional and contemporary learning principles and theories. Coverage of the main issues in memory and thinking. **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 schools, hospitals, and industry. **Prerequisite: PSYCH 1003. F, S, SU**

**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 3503 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY**

A study of psychological principles relevant to business and industry. Major topics include employee selection, training and evaluation, leadership, motivation, social groups, human factors, stress, and consumer psychology. **Prerequisite:** PSYCH 1003. S

**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 and PSYCH 3323. S

**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. **Prerequisite:** PSYCH 1003. S

**PSYCH 4223 MEDIA AND MENTAL ILLNESS**

Designed to develop and 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. 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 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 motivation, emotions, sleep and learning. **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

**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. **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 3453 EDUCATIONAL PSYCHOLOGY (ELEMENTARY)**

Study of concepts concerning the intellectual and non-intellectual factors in the learning process. Theories of learning and other vital psychological concepts are presented in a setting of practical school situations. **Prerequisite:** PSYCH 1003 and Admission to Teacher Education Program. F, S

**EDPSY 3653 EDUCATIONAL PSYCHOLOGY (SECONDARY)**

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. F, S

**EDPSY 5723 ADVANCED PSYCHOLOGY OF LEARNING**

An intensive examination of the learning systems, developmental capability and expectations, and interpretations of human learning as they influence student achievement in the classroom. Major objectives are also directed to competency mastery of the Competencies for Licensure and Certification, the objectives for the Professional Teaching Examination, and objectives for the Competencies for School Administrators as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisite:** Admission to the Graduate Program. F, S, SU

**EDPSY 5732-3 ADVANCED PSYCHOLOGY OF CHILDHOOD**

An intensive study of the relationship of maturational factors and learning at the primary and elementary school level. **Prerequisite:** Admission to the Graduate Program. S, SU

**EDPSY 5743 ADVANCED PSYCHOLOGY OF ADOLESCENCE**

An in-depth examination of the psychological foundations of adolescent development, the search for identity, sexuality, and self-concept, and adolescent socialization as they affect performance in the secondary school. Major objectives are also directed to competency mastery of the Competencies for Licensure and Certification, the objectives for the Professional Teaching Examination, and objectives for the Competencies for School Administrators as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisite:** Admission to the Graduate Program. S, SU

## **Social Work**

### **SOCWK 2503 INTRODUCTION TO SOCIAL WORK**

An examination of social work profession and the social welfare system. Emphasis on approaches for aiding individuals, groups, and communities to attain higher level of functioning. **F, S**

### **SOCWK 3263 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I**

A study of human behavior from an interactional, life cycle perspective including the social, psychological and biological development stages of human behavior. **F**

### **SOCWK 3273 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II**

A study of human behavior from an interactional, life cycle perspective, including the social, psychological and biological development stages of human behavior. Part II of a two-part course sequence. **S**

### **SOCWK 3503 SOCIAL WELFARE POLICY AND SERVICES**

Study of major social welfare policies and programs. Examination of the impact of socio-economic-political climates on social policy. Critical thinking and analytical skills will be emphasized. **Prerequisite or Corequisite: SOCWK 2503. S**

### **SOCWK 3863 RESEARCH FOR SOCIAL WORK**

Introduction to scientific philosophy and research methodologies applied to the profession. Application of research studies and critical analysis of data for evaluation of ethical, knowledge-guided generalist social work practice. **Prerequisite: PSYCH 2433 OR SOCSC 3853. S**

### **SOCWK 4011-4 SEMINAR IN SOCIAL WORK (TOPIC)**

Intensive study on selected topic in social work. Credit from one to four hours. May be repeated with change of subject for a total of 12 hours. **F**

### **SOCWK 4313 CULTURAL DIVERSITY**

Study of similarities and differences in cultural patterns and institutions in traditional and modern societies world wide. Examination of cultural transmission, continuity, adaptation, and change. **S**

### **SOCWK 4591 PRACTICUM AND SEMINAR FOR ALCOHOL & CHEMICAL DEPENDENCY COUNSELING**

A limited practicum for alcohol & chemical dependency minors. Provides students with direct personal experience in a chemical dependency counseling agency. **Prerequisites: Instructor's signature. F, S, SU**

### **SOCWK 4603 MICRO SYSTEMS PRACTICE**

Focus on professional use of self in the helping relationship involving individuals and families. Application of knowledge, values, and skills in assessment and problem solving. Study of social systems perspective. **Prerequisite: SOCWK 2503. Instructor's signature. F**

### **SOCWK 4613 SMALL GROUP PRACTICE**

Development of professional skills for implementing and facilitating social group work. Group process, techniques, and roles are studied. Examination of strategies for client-centered practice in community organizations. Experiential component. **Prerequisite: SOCWK 2503. Instructor's signature. F**

### **SOCWK 4623 MACRO SYSTEMS PRACTICE**

Examination of communities as dynamic social, economic and political systems. Topics include patterns of social change, community organization, social movements and contemporary interdependency and the ways in which these impact the practice of social work. **Prerequisite: SOCWK 4603 & SOCWK 4613. S**

### **SOCWK 4836 FIELD PRACTICUM & SEMINAR I**

An educationally directed practicum and weekly integrative seminar limited to senior social work majors. Provides student with direct practice experience in an approved community human service, mental health, health or youth and family service agency. **Prerequisites: SOCWK 4603, 4613 and instructor's signature. S**

### **SOCWK 4846 FIELD PRACTICUM & SEMINAR II**

Continuation of SOCWK 4836. Progression Requirements are detailed in SWOSU Social Work Program Field Practicum Manual. **Prerequisite: SOCWK 4836 and instructor's signature. S**

### **SOCWK 4901-4 DIRECTED READINGS IN SOCIAL WORK (TOPIC)**

Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Instructor's signature required. D**



# SCHOOL OF BUSINESS

## Accounting

### ACCTG 2213 PRINCIPLES OF ACCOUNTING I

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 ACCOUNTING II

Continuation of Acctg 2213 to include further discussion of partnerships, 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

Examines the design, implementation, flow of accounting data, and internal control issues relating to computer-based accounting systems. **Prerequisites:** ACCTG 2313 and MIFOS 3113. F, S

### ACCTG 3313 INTERMEDIATE ACCOUNTING I

An introduction to the conceptual framework of accounting and generally accepted accounting principles. Emphasis upon current asset and current liability relationships. **Prerequisite:** ACCTG 2313. F

### ACCTG 3323 INTERMEDIATE ACCOUNTING II

Continuation of course 3313, with emphasis upon the remaining balance sheet accounts. **Prerequisite:** ACCTG 3313. S

### ACCTG 3333 INTERMEDIATE ACCOUNTING III

Concluding phase of the intermediate accounting sequence. Topics of current concern, use of comparative data, ratios and measurements, and cash flow reporting. **Prerequisite:** ACCTG 3323. F

### 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:** MATH 1513 and ACCTG 2313. S

### ACCTG 4003 INDEPENDENT STUDY IN ACCOUNTING (TOPIC)

Independent study of selected topics under the supervision of an accounting faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean 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 NOT-FOR-PROFIT ORGANIZATIONS

A study of fund accounting and reporting in relation to government entities, health care and educational institutions. **Prerequisite:** ACCTG 2313. 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 3713. S

### 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 Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Associate Dean. D

### ACCTG 4513 AUDITING II

Continuation of Auditing I to include advance preparation for auditors and CPA applicants. **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. F

### 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 5003 INDEPENDENT STUDY IN ACCOUNTING (TOPIC)

Independent study of selected topics for graduate students under the supervision of an accounting faculty member. **Prerequisite:** Instructor, MBA advisor, and Associate Dean approval. D

### ACCTG 5013 SEMINAR IN ACCOUNTING (TOPIC)

Seminar for graduate students in selected accounting topics. **Prerequisite:** Instructor and MBA advisor approval. D

### ACCTG 5213 ADVANCED AUDITING

Continuation of Auditing I (ACCTG 4213) to include advanced preparation for auditors and CPA applicants, audit transaction cycles, work paper documentation, and completion of the audit. Current issues and case analysis will be used. **Prerequisites:** ACCTG 4213 or equivalent and MBA advisor approval. F

### ACCTG 5333 INTERNSHIP IN ACCOUNTING

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, MBA advisor, and Associate Dean. D

### ACCTG 5413 FINANCIAL STATEMENT ANALYSIS & REPORTING

The course stresses the evaluation and interpretation of published financial statements and the impact of various accounting methods on the reported results of companies. Students will learn to utilize key information contained in footnote disclosures. **Prerequisites:** ACCTG 3333 or equivalent and MBA advisor approval. S

### **ACCTG 5523 RESEARCH AND PLANNING IN FEDERAL TAXATION**

Development and administration of federal tax law with emphasis on skills for tax research, advanced analysis and application of techniques to tax planning. **Prerequisites:** ACCTG 4313, ACCTG 4323 or equivalent (recommended), and MBA advisor approval. **S**

### **ACCTG 5633 FINANCIAL ACCOUNTING FOR DECISION MAKING**

Core course for MBA students not pursuing the 'Accounting Emphasis.' Emphasis is upon use of financial and managerial accounting with special attention placed on interpretation of financial statements and their significance in making business decisions. **Prerequisites:** ACCTG 2313 or equivalent and MBA advisor approval. **F**

## **Economics**

### **ECONO 1113 CONTEMPORARY ECONOMICS**

An introductory level course in economics designed for general education students. Emphasis is placed on providing an understanding of today's economic world. Special attention is given to domestic and global issues including consumer behavior and workings of various markets. **NOTE: Will not substitute for ECONO 2263 or 2363.** **F, S**

### **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. **Prerequisite:** MATH 1513. **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 and ECONO 2363. **D**

### **ECONO 4003 INDEPENDENT STUDY IN ECONOMICS (TOPIC)**

Independent study of selected topics under the supervision of an economics faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean approval. **D**

### **ECONO 4013 SEMINAR IN ECONOMICS (TOPIC)**

Group study of specified topics in economics. **Prerequisite:** Instructor and Advisor approval. **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. **Prerequisites:** ECONO 2263 and 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 and ECONO 2363. **D**

### **ECONO 5653 ADVANCED MANAGERIAL ECONOMICS**

An advanced 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; the determination of interest rates; aggregate income and output determination; monetary and fiscal policies. **Prerequisite:** MBA advisor approval. **S**

### **ECONO 5763 ADVANCED BUSINESS STATISTICS**

Analysis, summarization, and interpretation of data for use in decision-making. Includes the study of analysis of variance, linear regression and correlation, multiple regression and correlation analysis, nonparametric methods, time series, chi-square applications, and index numbers. Emphasis will be on problem solving and analysis using actual business data. **Prerequisite:** MBA advisor approval. **F**

## **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. **Prerequisites:** FINAN 3343. **D**

### **FINAN 3343 BUSINESS FINANCE**

A survey course with emphasis on the financial characteristics of modern U.S. corporations. **Prerequisite:** ACCTG 2313. **F, S, SU**

### **FINAN 3353 PERSONAL FINANCIAL PLANNING**

Financial planning with emphasis on the needs of the individual and family. **Prerequisite:** FINAN 3343. **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 INDEPENDENT STUDY IN FINANCE (TOPIC)**

Independent study of specified topics under the supervision of a finance faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean 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 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. **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 with a Finance major in the School of Business who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Associate Dean. **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. **Prerequisites:** FINAN 3343, FINAN 3363, and successful completion of the application process. **F**

**FINAN 4523 PORTFOLIO MANAGEMENT II**

A mandatory continuation course of FINAN 4513. **Prerequisites:** FINAN 4513 and instructor approval. **S**

**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**

**FINAN 5003 INDEPENDENT STUDY IN FINANCE (TOPIC)**

Independent study of selected topics for graduate students under the supervision of a finance faculty member. **Prerequisites:** Instructor, MBA advisor, and Associate Dean approval. **D**

**FINAN 5013 SEMINAR IN FINANCE (TOPIC)**

Seminar for graduate students in selected finance topics. **Prerequisites:** Instructor and MBA advisor approval. **D**

**FINAN 5263 ADVANCED FINANCIAL MANAGEMENT**

An advanced study of the function of finance in the business enterprise: financial planning, capital budgeting, cost of capital, return-on investment, management of cash and other current assets, capital structure, sources of financing. **Prerequisites:** FINAN 3343 or equivalent and MBA advisor approval. **F**

**FINAN 5333 INTERNSHIP IN FINANCE**

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisites:** Approval by the supervising faculty, MBA advisor, and Associate Dean. **D**

**General Business****GEBUS 2723 COMPUTER BUSINESS APPLICATIONS**

Introduction to computer technology to prepare students for computer applications used in business courses and in the workplace. Content includes windows, word processing, spreadsheet, database, and presentation software. Keyboarding proficiency required. **Prerequisite:** COMSC 1022 and MATH 1513 or higher. **D**

**GEBUS 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**

**GEBUS 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**

**GEBUS 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:** GEBUS 3123. **S**

**GEBUS 3323 ESTATE PLANNING, PROPERTY, AND BUSINESS ORGANIZATIONS**

A study of the legal topics of real estate, personal property, bailments, business organizations, insurance, professional liability, and securities regulation. **F**

**GEBUS 3373 INFORMATION SYSTEMS AND TECHNOLOGY**

In-depth study of the latest hardware and software technologies discussed in terms of their value and importance to the business world. Presented from an end users perspective rather than a technical one. **D**

**GEBUS 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, COMM 1313, and Junior standing. **F, S**

**GEBUS 3723 INTERNATIONAL BUSINESS**

An example 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**

**GEBUS 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. **Prerequisite:** ECONO 2463. **F, S, SU**

**GEBUS 3923 ADVANCED COMPUTER BUSINESS APPLICATION**

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:** GEBUS 2723. **D**

**GEBUS 4003 INDEPENDENT STUDY IN GENERAL BUSINESS (TOPIC)**

Independent study of selected topics under the supervision of a general business faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean approval. **D**

**GEBUS 4013 SEMINAR IN GENERAL BUSINESS (TOPIC)**

Group study of special topics in general business. **Prerequisite:** Instructor and Advisor approval. **D**

**GEBUS 4103 INDEPENDENT STUDY IN BUSINESS INFORMATION SYSTEMS**

Independent study of specified topic(s) in business information systems for undergraduate students. **Prerequisite:** Instructor, Advisor, and Associate Dean approval. **D**

**GEBUS 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.

**Prerequisites:** GEBUS 2723. **D**

#### **GEBUS 4223 TEACHER'S COURSE IN BUSINESS**

Problems and methods in the teaching of business curriculum at the secondary level. **Prerequisites:** Business major or endorsement; Admission to Teacher Education Program. **F, Even Numbered Years**

#### **GEBUS 4333 INTERNSHIP IN BUSINESS**

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Full details can be obtained in the Associate Dean's office. **Prerequisites:** Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Associate Dean. **D**

#### **GEBUS 5343 TOPICS IN INTERNATIONAL BUSINESS**

A course designed to familiarize students with fundamental aspects and differences of conducting business outside the U.S. Topics will vary but include differences in theories of trade, monetary systems, cultural issues, management operations and special problems facing multinational managers. **Prerequisite:** Approval by MBA advisor. **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 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, SU**

#### **MNGMT 3433 ADMINISTRATIVE THEORY**

Study of the relationship between administrative processes; and organizational development, structure and design; emphasis on management considerations, the global environment, effects of technology, governance and control, culture, decision making, power and politics, and change as it relates to organizations. Extensive use of case studies. **Prerequisite:** MNGMT 3233. **F, S**

#### **MNGMT 3533 ORGANIZATIONAL BEHAVIOR**

Study of the relationship between administrative process and organizational development, structure, and design; emphasis on management considerations, the global environment, effects of technology governance and control, culture, decision-making, power and politics, and change as it relates to organizations. Extensive use of case studies. **Prerequisite:** MNGMT 3233. **F,S**

#### **MNGMT 4003 INDEPENDENT STUDY IN MANAGEMENT (TOPIC)**

Independent study of selected topics under the supervision of a management faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean 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 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. Full details can be obtained in the Associate Dean's office. **Prerequisites:** Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Associate Dean. **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 (required). **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. **D**

#### **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, a business plan project, and a business policy game simulation. The business simulation is interactive and thus enables students to test out their strategic decision making skills. **Prerequisites:** Senior classification and completion of all other BBA professional business core requirements. **F, S, SU**

#### **MNGMT 5003 INDEPENDENT STUDY IN MANAGEMENT (TOPIC)**

Independent study of selected topics for graduate students under the supervision of a management faculty member. **Prerequisites:** Instructor, MBA advisor, and Associate Dean approval. **D**

#### **MNGMT 5013 SEMINAR IN MANAGEMENT (TOPIC)**

Group study of selected topics in management for graduate students. **Prerequisites:** Instructor and MBA advisor approval. **D**

#### **MNGMT 5333 INTERNSHIP IN MANAGEMENT**

Direct experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Associate Dean. **D**

#### **MNGMT 5433 ADVANCED HUMAN RESOURCE MANAGEMENT**

Course involves advanced study of Human Resource Management functions including job analysis, recruitment, selection, performance appraisal, training and development, compensation, benefits administration, employment laws and employee relations. Course will focus on enhancing students' ability to effectively address problems with HRM implications. **Prerequisite:** MBA advisor approval, **SU**

### **MNGMT 5533 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR**

An advanced study of contemporary theories of individual and group behavior in organizations. Emphasis will be placed on topics including motivation, development, and change management. Course will be geared towards helping students develop managerial skills. **Prerequisites:** MNGMT 3233 and MBA advisor approval. S

### **MNGMT 5643 ADVANCED QUANTITATIVE METHODS AND OPERATIONS ANALYSIS**

This course emphasizes the study of quantitative techniques which support effective decision-making. It focuses on the formulation, analysis, and interpretation of optimization models for various applications in management including marketing, accounting, finance and operations. In addition, topics may include aggregate planning, queuing theory, inventory control, scheduling and decision theory. **Prerequisite:** MBA advisor approval. SU

### **MNGMT 5923 BUSINESS STRATEGY AND POLICY**

This course is designed to enable students to draw upon and integrate the various courses. The course focuses on the theories and practices associated with strategic management and business policy. A variety of readings and cases, a business plan, project, and a strategic management simulation are used. The simulation is interactive and enables students to test out various strategic decisions in the areas of sales, marketing, operations, finance, and human resources management. **Prerequisites:** MBA advisor approval. F

## **Management Information Systems**

### **MIFOS 2123 SOFTWARE AND HARDWARE ARCHITECTURE**

Provides a basic understanding of the operation of the various hardware and the understanding of the basic software. Develops understanding of these two components of systems. F

### **MIFOS 2133 WEB DESIGN & COMMERCIAL APPLICATION**

Study of the Internet, web browser utilities such as telnet, ftp, search engines and the World Wide Web (including HTML, XML, and Java Script). **Prerequisite:** Basic knowledge of a computer application software package. F

### **MIFOS 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. F, S, SU

### **MIFOS 3213 DATABASE DESIGN AND COMMERCIAL APPLICATION**

Provides an introduction to relational, network, and hierarchical models, to DBMS, SQL, etc. The Design, functions, administration and general applications of database are provided. **Prerequisites:** COMSC 1433, ECONO 2463, ACCTG 2313, MNGMT 3233, MRKTG 3143. S

### **MIFOS 3463 MANAGEMENT SYSTEMS ANALYSIS AND DESIGN**

Introduce information systems analysis and design through the use of a system development life cycle. This course is divided into two sections. The analysis section will focus on defining a business problem that can be solved by the creation of an information system. Students learn to analyze the problem, gather data, design diagram, prepare and present a systems proposal. The design section will focus on techniques needed by the systems designer to gather and interpret information about the processes and flow of information within an organization. Also those concepts needed to help a designer develop the system described by the analyst. **Prerequisite:** ACCTG 2313, MNGMT 3233, MRKTG 3143, COMSC 1433. S

### **MIFOS 4001-3 INDEPENDENT STUDIES**

Independent study of specified topics in management information systems under the supervision of a MIS faculty member. **Prerequisite:** Instructor, Advisor, and Associate Dean approval. D

### **MIFOS 4011-3 INTERNSHIP IN MIS**

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Applications may be obtained from the Associate Dean's office. **Prerequisite:** Approval of supervising faculty, Advisor, and Associate Dean. D

### **MIFOS 4113 DECISION SUPPORT SYSTEMS APPLICATIONS**

Advanced course in management information systems. Application of management tools popular in the business environment will be used. This course merges Quantitative Methods for Business with business technology. **Prerequisite:** MIFOS 3463 and GEBUS 3823. S

### **MIFOS 4513 E-COMMERCE ENVIRONMENTS**

Provides an introduction to electronically buying and selling of goods, services, and information. Involves the concepts of marketing, management, accounting, and ethics on the Internet. Provides an understanding of the interfacing of WEB design and database. **Prerequisites:** MIFOS 2113, MIFOS 3213, and MIFOS 3463. F

### **MIFOS 4943 MANAGEMENT INFORMATION SYSTEMS APPLICATIONS**

Capstone course for MIS Emphasis. Involves System Life Cycle, Telecommunications Components, Global Operations, Ethics on the Internet. Provides hands-on development of a modified information subsystem. **Prerequisites:** Must be a senior with 1000, 2000, and 3000 MIS requirements completed. S

## **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 fashion 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:** MRKTG 3143 and MRKTG 3233.

### **MRKTG 3443 MARKETING/CONSUMER BEHAVIOR**

A marketing consideration of the contributions of economics and behavioral sciences to consumer behavior. Emphasis on analyses of the qualitative and quantitative aspects of consumer behavior patterns. **Prerequisite:** MRKTG 3143. F

**MRKTG 4003 INDEPENDENT STUDY IN MARKETING (TOPIC)**

Independent study of selected topics under the supervision of a marketing faculty member. **Prerequisite: Instructor, Advisor, and Associate Dean approval. D**

**MRKTG 4013 SEMINAR IN MARKETING (TOPIC)**

Group study of specified topics in marketing. **Prerequisite: Instructor and Advisor approval. 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 uses case studies to illustrate and analyze real marketing decisions and may require preparation of a Marketing Plan. **Prerequisites: MRKTG 3143 and MRKTG 3243. S**

**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 4333 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. Full details can be obtained in the Associate Dean's office. **Prerequisites: Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Associate Dean. 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 are 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. D**

**MRKTG 5003 INDEPENDENT STUDY IN MARKETING (TOPIC)**

Independent study of specified topics in marketing for graduate students. **Prerequisite: Instructor, MBA advisor, and Associate Dean's approval. D**

**MRKTG 5013 SEMINAR IN MARKETING (TOPIC)**

Group study of selected topics in marketing for graduate students. **Prerequisite: Instructor and MBA advisor approval. D**

**MRKTG 5333 INTERNSHIP IN MARKETING**

Direct experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisite: Approval by the supervising faculty, MBA advisor, and Associate Dean. D**

**MRKTG 5623 MARKETING STRATEGY**

Provides students with a broad perspective of environmental conditions (enabling and restraining variables) within which marketers must operate as they develop policies, plans, strategies, and evaluation procedures. **Prerequisites: Approval of MBA advisor. S**

# SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

## COMPUTER SCIENCE

### 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 processing, spreadsheets, Powerpoint, e-mail, and the Internet. **F, S, SU**

### COMSC 1033 COMPUTER SCIENCE I

A study of basic concepts that provide the foundation for structured and object-oriented programming. Topics covered in this course include introduction to code generation and computer hardware, primitive and structured data types, I/O streams, classes, control structures, functions, and arrays. Modular design, debugging, and documentation of programs will be stressed. Programming projects in C++ are included. **F, S**

### COMSC 1053 COMPUTER SCIENCE II

This course covers the usage of C++ as an object oriented language. Emphasis will be given to problem solving and program design using classes, polymorphism, inheritance, virtual functions, pointers, exception handling, and STL. Topics through linked lists as an ADT will be covered. **Prerequisite: COMSC 1033. F, S**

### COMSC 1433 VISUAL BASIC PROGRAMMING I

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, program structure, event driven programming, language syntax, and implementation details. This is the first course in the Visual Basic.NET curriculum and will serve as the entry point for other .NET courses. **F**

### COMSC 2053 JAVA PROGRAMMING

Introduction to programming in Java for students with programming experience. Topics include an introduction to object-oriented programming in Java, Java applets, graphics, and multimedia applications. **Prerequisite: COMSC 1053, or departmental consent. F, S**

### COMSC 2433 VISUAL BASIC PROGRAMMING II

This course is a continuation of COMSC 1433, Visual Basic Programming I. Students learn advanced Visual Basic.NET programming. Explain and use the basic concepts and terminology of object-oriented programming in Visual Basic. Students learn Windows database programming, Web Forms database programming, and Web Services. **Prerequisite: COMSC 1433. S**

### COMSC 2463 C# PROGRAMMING

This course covers the development of professional projects using Microsoft's newest language. Students will learn how to develop database driven applications using C#, ADO.NET, and ASP.NET. **Prerequisite: COMSC 1033. S**

### COMSC 2503 INFORMATION SYSTEMS IN ORGANIZATIONS

This course will provide an overview of information systems in the context of the structure and objectives of an organization. Topics such as business ethics, organizational operations, and information flow will be discussed. Students will be exposed to systems theory and analysis. Students will learn about different types of computer systems and configurations of computer based management information systems. **Prerequisite: COMSC 1033. F, S**

### COMSC 2913 INTERNET TELECOMPUTING

The basic tools, services, and methods of using the Internet. Electronic mail and discussion groups, information access tools and techniques, and the World Wide Web with HTML are covered. Network etiquette along with ethical, legal, security, and social issues are considered. **Prerequisite: Computer Literacy. D**

### COMSC 3013 COMPUTER ORGANIZATION

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 1053. Recommended: COMSC 3033. F, S**

### COMSC 3033 DATA STRUCTURES

This course deals with and introduces the techniques needed to create and manipulate commonly occurring data structures. It begins by reviewing the C++ approach to data abstraction and continues with a treatment of how to create and maintain various data structures, such as arrays, stacks, queues, linked lists, binary search trees, hash tables, and binary heaps. Algorithms for manipulating these structures are also discussed. **Prerequisite: COMSC 1053. F, 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. **Recommended: COMSC 3033. D**

### 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 3043. F**

### COMSC 3103 HARDWARE/SOFTWARE CONCEPTS

This course will start with a survey of Computer Systems. The survey will be followed by the study of the relationships between hardware architecture, systems software, and applications software. The architecture of storage systems and processors will be discussed. The relationship between the design parameters of hardware and systems software, and the development process for application programs will be analyzed. The current trends in hardware and systems software design will be studied. **Prerequisite: COMSC 2503. F, S**

### 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 1053. Recommended: COMSC 3033. F**

### COMSC 3153 DATA COMMUNICATIONS AND NETWORKS

In this course, students will undertake an analysis of technical and managerial facets of basic concepts and applications in telecommunication systems. An overview of 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 3103. S**

**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), 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 3103. 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. **Prerequisites:** COMSC 2503 and COMSC 3133. F

**COMSC 3913 WEB DEVELOPMENT I**

A study of Web Development based on client-side processing. Covers XHTML, image and multimedia formats, cascading style sheets, and an introduction to JavaScript and XML. A significant student project is required. **Prerequisite:** COMSC 2053 or by departmental consent. F

**COMSC 3933 MULTIMEDIA SYSTEMS - DESIGN AND EVALUATION**

An investigation of microprocessor-based multimedia systems and their applications is the central theme of this course. Techniques and processes for creating professional presentations based on utilization of sound, clip art, video, and text will be studied. Students will be familiarized with the utilization of the Internet as a resource for multimedia systems/projects. Hardware selection will be discussed. Students will also examine the effect of multimedia presentations on social issues associated with the application environment. **Corequisite:** COMSC 3913. S

**COMSC 4001-4 INDEPENDENT STUDY IN COMPUTER SCIENCE**

Specified projects in computer science. One to four credit hours.

**COMSC 4011-4 COMPUTER SCIENCE SEMINAR**

Group study of specified advanced topics in computer science. One to four credit hours.

**COMSC 4023 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 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, data types, data abstraction, sequence control, and storage 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 3033 and COMSC 4023. S

**COMSC 4053 OBJECT-ORIENTED SOFTWARE ENGINEERING**

Introduction to the evolution and the concepts of object oriented programming systems (OOPS) namely classes, objects, abstract data types, inheritance, polymorphism, dynamic binding, overriding, virtual functions and exceptions. The course will have programming assignments that require the application of object-oriented software engineering methodology for developing and implementing information systems. **Prerequisite:** COMSC 1053. D

**COMSC 4133 DESIGN AND ANALYSIS OF COMP. 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 3033 and COMSC 4023. D

**COMSC 4433 DATABASE SYSTEMS**

This is the first course in a two course series dealing with the design, implementation, and management of database systems in a business environment. The topics covered include the role of databases in the management/operation of organizations management of information as a corporate resource, types of data models (Entity-Relationship, and Semantic), and basic principles of relational and object-oriented database design. The implementation and maintenance of database management systems CMS Access and Oracle will be studied. Database Administration will be covered. **Corequisite:** COMSC 3353. F

**COMSC 4453 ADVANCED DATABASE SYSTEMS**

This course will require the students to carry out the initial database study, database design, selection of the database management system, and implementation of a relational database for a commercial organization. Students will conduct tasks related to database administration, database disaster recovery, and database security. In addition to designing a web-based e-commerce database, the student will learn how to utilize the database in conjunction with MS active server pages. **Prerequisite:** COMSC 4433. S

**COMSC 4503 INFORMATION SYSTEMS AND SECURITY.**

In this course, the students are initially presented an overview of a practical information security program with special emphasis on security systems development, implementation, and maintenance. The security issues and implications for databases, telecommunication systems, and software (systems and applications) will be discussed. Techniques for identifying and assessing security threats and issues will be studied. Methods for mitigating security risks and system recovery will be studied in the class and in the computer security laboratory. **Prerequisites:** COMSC 3153 and COMSC 3103. S, SU

**COMSC 4513 DECISION SUPPORT AND EXPERT SYSTEMS**

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) studied. A study of various commercially available expert systems will be undertaken in the context of decision support systems test cases. **Corequisite:** COMSC 4453. D

**COMSC 4913 WEB DEVELOPMENT II**

Client and Server Side Web Application Development with Scripting. Includes introduction to scripting; JavaScript, VBScript, accessing databases and server data, ASP.NET objects, design and implementation of small-scale 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 student 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 systems support or development. Reports, meetings with other interns, and a presentation to the faculty are required. **Prerequisites:** COMSC 3013, COMSC 3033, and departmental approval. **SU**

**COMSC 4953 CAPSTONE I**

This is the first part of a two-semester sequence, CAPSTONE I and CAPSTONE II (a requirement for senior students in the Information Science Program). 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. **Prerequisites:** COMSC 3353 and COMSC 4503. **F**

**COMSC 4963 CAPSTONE II**

This is the first part of a two-semester sequence, CAPSTONE I and CAPSTONE II (a requirement for senior students in the Information Science Program). 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. **Prerequisites:** COMSC 4953. **S**

**TECHNOLOGY**

**The Technology Department 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. Laboratory activities are included. **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 1313 WOOD MATERIALS AND PROCESSES**

A survey and application of the materials, processes, tools and equipment relating to wood materials in the construction and manufacturing industries. **F**

**TECH 1733 ARTS AND CRAFTS**

Manipulative experience with tools and materials appropriate for teaching basic arts and crafts. **S**

**TECH 1813 BASIC ELECTRONICS I**

A basic course in electricity and electronics with emphasis on electrical units, direct current, ohm's law, kirchoff's laws, circuit solutions, network theorems, magnetism, alternating current, inductance and capacitance. **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 2010 SEMINAR IN TECHNOLOGY EDUCATION**

Non-credit course required for all technology education majors. Topics include professional student organizations, class scheduling, departmental activities, etc. **S**

**TECH 2011-4 SEMINAR IN TECHNOLOGY (TOPIC)**

Specified topic in technology for undergraduate students. Credit one to four semester hours. **D**

**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 2543 WELDING PROCESSES AND METALLURGY**

Theory and laboratory experiences in the operation of oxyacetylene electric, T.I.G. and M.I.G., and resistance welding with attention given to the change in mechanical properties of ferrous metals through controlled cooling and principles of heat transfer. **D**

**TECH 2813 BASIC ELECTRONICS II**

A study of solid state electronics. Topics include: semiconductor diodes, power supplies, transistors, thyristors, transducers and integrated circuits. A brief introduction to fiber optics will also be included. **Prerequisite:** TECH 1813. **F, S**

**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. **Prerequisites:** MATH 1513 and MATH 1613; or MATH 1715 and MATH 2823. **F**

**TECH 3203 COMPUTER AIDED DRAFTING I**

A study of computer applications for drafting, including software selection, drawing commands, and plotting. MS-DOS computers will be used to produce orthographic, pictorial, and chart drawings. **F, S**

**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 and TECH 3203. **F, S**

**TECH 3323 MACHINE WOODWORK**

The application of the safe and economic use of power equipment, tools, jigs, and fixtures in the manufacture of wood products. **Prerequisite:** TECH 1313. **D**

**TECH 3363 SURVEYING**

Use and care of instruments; elementary surveying operations; topographical lay-outs. **D**

**TECH 3413 MANUFACTURING 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. **FE**

**TECH 3453 INDUSTRIAL PLASTICS**

A general overview of industrial plastic materials and processes including vacuum and pressure forming, molding and lay-up of selected media such as fiberglass, expandable polystyrene epoxy resins, and sheet materials. **S**

**TECH 3463 MANUFACTURING OPERATIONS I**

The study of management, productivity, quality, design, and work measurement in industry. **F, S**

**TECH 3513 MATERIALS TESTING AND ANALYSIS**

Testing materials for compression, tension and shear, using modern testing and measuring equipment. **Prerequisites: MATH 1513 and TECH 2513. 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 3743 INTERMEDIATE CRAFTS/MATERIAL PROCESS**

The application of tools, materials and processes as they relate to constructional activities and projects. Units include techniques in ceramics, graphics, metals, polymers and wood. **D**

**TECH 3813 ELECTRO/MECHANICAL CONTROLS**

A study of control electronics and control systems. Topics include: solenoids, relays, sensors, contactors, switches, timers, counter, PID controls, Programmable Logic Controllers, and servomotors. The course also includes an in-depth study of ladder logic programming. **Prerequisite: TECH 3873 and MATH 2823. F**

**TECH 3823 INDUSTRIAL ELECTRONICS**

A study of the different types of A.C. and D.C. motors and controls. Generator principles and A.C. rectification will be a part of the course along with single phase and three phase electricity as it applies to motors and generators. **Prerequisite: TECH 3873. SO**

**TECH 3833 COMMUNICATIONS ELECTRONICS**

A study of radio transmission and reception (AM & FM). Complex circuitry will be developed to implement the use of signal generators, oscilloscopes, digital meters and transistors tests in the analysis of transistor characteristics as well as trouble-shooting of the circuitry. **Prerequisite: TECH 3873. FO**

**TECH 3843 TELECOMMUNICATIONS**

A study of the concepts and terminology of networking. Topics include data communications, modems, Local Area Networks, satellite systems, and telephone technology. **Prerequisite: TECH 3833. SE**

**TECH 3853 ELECTRONIC INSTRUMENTATION**

A study of various pieces of equipment used to measure current, voltage, and resistance of electronic circuits. **Prerequisite: TECH 3873. SE**

**TECH 3863 ELECTRONIC TROUBLE SHOOTING**

Use of test equipment to find defects in typical electronic industrial circuits. **Prerequisite: TECH 3873. SO**

**TECH 3873 APPLIED ELECTRONICS**

A comprehensive study of electronic principles and practices, including basic electrical theory, circuit fundamentals, measurement, and practical wiring techniques. The course includes residential, commercial, and industrial systems. **Prerequisite: MATH 1513. D**

**TECH 3902 MANAGING STUDENT ORGANIZATIONS**

Technology Education and Vocational youth and adult organizations are studied in depth with relation to leadership training skills, parliamentary procedures, and the administration of school organizations. Membership and active participation in Vocational or Technology Education Collegiate Organization is required. **FE**

**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. **Prerequisite: Senior classification. F, S**

**TECH 4113 HISTORY AND PHILOSOPHY OF VOCATIONAL AND ADULT EDUCATION**

Study of history, philosophy, and legislation affecting vocational education. Emphasis includes advisory committee, student organizations, work experiences and adult education. **SO**

**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 4133 CURRICULAR ISSUES IN VOCATIONAL EDUCATION**

Current curricular issues in vocational education will be studied. Topics include occupational analysis, task analysis, cooperative education and career education. **D**

**TECH 4161 SOCIETY OF MANUFACTURING ENGINEERS (SME)**

Student will gain membership and become actively involved in the Society of Manufacturing Engineers Student Chapter #181. **D**

**TECH 4223 ELECTRICAL CIRCUIT DESIGN**

A study of electrical symbolism and the designing of schematic layouts of electrical circuits and systems. Conventional drafting practices and techniques related to electronic drafting are included. **D**

**TECH 4233 GRAPHIC COMMUNICATION SYSTEMS**

A study of the processes and techniques used to create, store, and retrieve information. Activities include drafting, duplicating, printing, photography, and telecommunications. **SE**

**TECH 4243 COMPUTER AIDED DRAFTING II (CAD)**

An advanced course in computer applications that includes 3D modeling, symbol libraries, and assembly drawings. A variety of design software packages will be used. **Prerequisite: TECH 3203. D**

**TECH 4253 MACHINE DRAFTING II**

Preparation of detail and assembly drawings using computer-aided drafting systems. **Prerequisite: TECH 3263. D**

**TECH 4273 PRACTICAL PHOTOGRAPHY**

A course in basic photography including camera operation, developing and printing black and white pictures, and purchasing photography equipment. **D**

**TECH 4283 ADVANCED PHOTOGRAPHY**

A course in advanced black and white photography techniques including high contrast printing, toning, reversals, and stabilization. The use of various films, papers, and chemicals is explored.

**Prerequisite:** TECH 4273. **D**

**TECH 4293 MACHINE DESIGN**

A class in the design, analysis, and development of industrial products with emphasis on machine components and mechanisms. Design teams will manufacture a prototype product. **Prerequisite:** TECH 3263. **D**

**TECH 4313 CONSTRUCTION SYSTEMS I**

A study of the methods and techniques used in residential construction with emphasis on sequences of assembling the materials and components. **Prerequisite:** TECH 1313. **FO**

**TECH 4364 FURNITURE AND CABINET MAKING**

Advanced machine woodworking incorporating modern methods and materials used in furniture and cabinet construction. **Prerequisite:** TECH 1313. **D**

**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. **D**

**TECH 4413 INSTRUCTIONAL PROCEDURES IN VOCATIONAL EDUCATION**

A study of the methods and techniques employed in teaching vocational education courses. **FE**

**TECH 4433 QUALITY CONTROL**

The study of statistical process control and quality management techniques. **Prerequisite:** 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 3203 **SO**

**TECH 4454 COMPUTER AIDED MANUFACTURING (CAM)**

Applications, operations, and evaluation of computer-integrated manufacturing and design systems. **Prerequisite:** TECH 3203 and TECH 3523. **S**

**TECH 4493 MANUFACTURING OPERATIONS II**

Economic aspects of industry and manufactured processes. **Prerequisite:** MATH 2823 and TECH 3463. **S**

**TECH 4514 MACHINE TOOL PROCESSES**

Provides advanced activities related to industrial processes, industrial machines and characteristics of machine tools. Additional topics include safety operating procedures, precise measuring instruments, advanced foundry practices, and characteristics of metal and their behavior during manufacturing processes. **Prerequisite:** TECH 3523. **F**

**TECH 4573 ADVANCED WELDING**

Theory and laboratory application of advanced techniques in welding of industrial materials. Emphasis is placed on the design of weld for static impact and fatigue loading. **Prerequisite:** TECH 2543 **D**

**TECH 4583 METROLOGY AND METALLURGY**

A combined study of the various types, uses and calibration of precision measuring instruments, and the effects of various heat treating processes on ferrous and non-ferrous materials. **Prerequisites:** TECH 3523 . **D**

**TECH 4613 AUTOMOTIVE INFORMATION**

The general study of the automobile and its parts and systems. The course includes consumer type information necessary in understanding the exhaust emission systems as well as technical knowledge about the automobile. **D**

**TECH 4783 ADVANCED CRAFTS**

Includes work in forming, shaping and finishing art metals, plastics, and other craft materials. **D**

**TECH 4813 NETWORKING ELECTRONICS**

A study of Local Area Network basics. Topics include advanced network concepts, network protocol and topologies, LAN operating systems, LAN installation and maintenance, linking standards, and network management operations. **Prerequisite:** TECH 3843. **D**

**TECH 4823 DIGITAL ELECTRONICS**

A study of digital principles as they apply to computers, microprocessors, communications, and instrumentation. Such areas as binary, octal and hexadecimal number systems, codes, Boolean Algebra, Karnaugh Maps, DeMorgan's Theorem, AND, NAND, NOR gates and combinational logic will be included. **Prerequisite:** TECH 3873. **FE**

**TECH 4833 MICROCOMPUTER ELECTRONICS**

A thorough examination of bus-oriented systems, input/out devices, flowcharts, high-level language programming and telecommunications. **Prerequisite:** TECH 4823. **SO**

**TECH 4843 PROGRAMMABLE CONTROLLERS**

The study of interfacing microcomputers with electronic devices used in industry. The microcomputer is connected to typical input and output devices. **Prerequisite:** TECH 3823. **SE**

**TECH 4883 RESIDENTIAL AND COMMERCIAL WIRING**

A study of the different methods of wiring residential and commercial buildings and the materials common to those industrial areas. Also, local and national codes will be studied. **Prerequisite:** TECH 1813. **D**

**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:** Senior 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. **FE**

**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 & a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite:** TECH 4900. **SU**

**TECH 4943 ORGANIZATION AND ADMINISTRATION OF TECHNOLOGY SYSTEMS**

Principles of school facility planning; requisitioning equipment, tools and supplies; techniques of administration. **FO**

**MFET 4951 CAPSTONE I**

The development of an independent senior project design using a variety of data collection and analysis methods. The design will be presented orally and evaluated by a team of faculty. **Prerequisite:** MATH 2823 and Senior standing. **F**.

**MFET 4962 CAPSTONE II**

The completion of an independent senior project based on the project design developed in Capstone I. The final project will be evaluated by the technology faculty. **Prerequisite:** MFET 4951. **S**.

**TECH 4974 OCCUPATIONAL ANALYSIS AND INSTRUCTIONAL PLANNING**

Analysis of trades and occupational job activities; development of course outlines and specific instructional materials for shop and laboratory courses. **FE**

**TECH 4983 PRINCIPLES OF TEACHING TECHNOLOGY EDUCATION**

A study of the methods and techniques employed in teaching technology education courses. **Prerequisite: Admission to Teacher Education Program. FE**

**TECH 4993 ORGANIZATION AND MANAGEMENT OF LEARNING FACILITIES**

Techniques and procedures for organizing and managing shop and laboratory facilities. Special emphasis on enhancement of learning activities, quality of instruction, and equipment and space utilization. **FO**

**TECH 5000-4 INDIVIDUAL STUDY IN TECHNOLOGY (TOPIC)**

Individual study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

**TECH 5010-4 SEMINAR IN TECHNOLOGY (TOPIC)**

Group study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program D**

**TECH 5903 PROFESSIONAL PROBLEMS OF TECHNOLOGY EDUCATION TEACHERS**

A study of problems encountered by technology education teachers and methods of solving these problems. **Prerequisite: Admission to the Graduate Program. D**

**TECH 5923 PROJECT DEVELOPMENT IN TECHNOLOGY EDUCATION**

A study of project development, design, drawing, and construction with emphasis on modern and technological trends. **Prerequisite: Admission to the Graduate Program. D**

**TECH 5933 HISTORY AND PHILOSOPHY OF TECHNOLOGY EDUCATION**

A study of philosophies and background of laboratory and craft instruction which have influenced the place of technology education in public education. **SO**

**TECH 5942 ADVANCED CRAFTS FOR ELEMENTARY AND SECONDARY SCHOOLS**

Practical creative experience in a variety of suitable crafts; selection of materials; techniques in teaching skills and in development of student concepts. **Prerequisite: Admission to Graduate Program. D**

**TECH 5953 CURRICULUM CONSTRUCTION IN TECHNOLOGY EDUCATION**

Plan systematically the logical steps and procedures for the development of a curriculum in technology education. **Prerequisite: Admission to the Graduate Program. D**

**TECH 5983 EVALUATION IN TECHNOLOGY SUBJECTS**

The application of available measuring instruments to technology subject matter areas. Design and criticism of instructor made tests. Development and use of evaluation techniques. **D**

**AVIATION EDUCATION****TECH 3013 BASIC 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**

# SCHOOL OF 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 3154 HEALTH PROMOTION

Emphasis on health promotion and illness prevention throughout the lifespan. Holistic health assessment and wellness focused interventions will be introduced. Four hours theory. **Prerequisite:** Admission to the major & NURS 2212. **Corequisites:** NURS 3164, NURS 3174, & NURS 3183.

### NURS 3164 COMPETENCIES FOR HEALTH PROMOTION

Emphasis on acquisition and use of assessment and technical skills for the delivery of health care. Three hours theory, three hours lab. **Prerequisites:** Admission to the major and NURS 2212. **Corequisites:** NURS 3154, NURS 3174, & NURS 3183..

### NURS 3174 CLINICAL I HEALTH PROMOTION

Emphasis on implementing health promotion and illness prevention interventions for individuals of various ages throughout the lifespan. Twelve hours clinical. **Prerequisites:** Admission to the major & NURS 2212. **Corequisites:** NURS 3154, NURS 3164, & NURS 3183.

### NURS 3183 PHARMACOLOGY

Focuses on therapeutics of pharmacological principles and theory as applied to nursing and laboratory experience in the dosage calculation and administration of drugs. Two hours theory, three hours lab. **Prerequisites:** Admission to the major & NURS 2212. **Corequisites:** NURS 3154, NURS 3164, & NURS 3174.

### NURS 3255 HEALTH RESTORATION I

Emphasis is on the therapeutic process of promoting and restoring health in human responses of individuals, including infants through adults. Five hours theory. **Prerequisites:** NURS 3154, NURS 3164, NURS 3174 & NURS 3183. **Corequisites:** NURS 3265 & NURS 3275.

### NURS 3265 COMPETENCIES FOR HEALTH RESTORATION I

Emphasis is on skill competency necessary for restoring health of the acutely ill individual through the lifespan with therapeutic intervention. Three hours theory, six hours lab. **Prerequisites:** NURS 3154, NURS 3164, NURS 3174, & NURS 3183. **Corequisites:** NURS 3255 & NURS 3275.

### NURS 3275 CLINICAL II HEALTH RESTORATION I

Emphasis is on application and analysis of skill competency necessary to restore health of the acutely ill client through the lifespan. Fifteen hours clinical. **Prerequisites:** NURS 3154, NURS 3164, NURS 3174, & NURS 3183. **Corequisites:** NURS 3255 & NURS 3265.

### 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 4154 HEALTH RESTORATION & MAINTENANCE

Utilizing secondary and tertiary prevention, the student will explore the holistic health needs of clients across the lifespan with complex needs and major disruptions of systems. Focus will include individuals, families, and vulnerable populations requiring acute, chronic and end of life nursing care. Four hours theory. **Prerequisites:** NURS 3255, NURS 3265, & NURS 3275. **Corequisites:** NURS 4163, NURS 4176, & NURS 4182.

### NURS 4163 COMPETENCIES FOR HEALTH RESTORATION & MAINTENANCE

The student will develop strategies for providing secondary and tertiary prevention for clients across the lifespan with complex needs and major disruptions of systems. Strategies range from high technology resource management to holistic end of life care. Creative problem solving and critical thinking will be emphasized. Three hours theory. **Prerequisites:** NURS 3255, NURS 3265, and NURS 3275. **Corequisites:** NURS 4154, NURS 4176, & NURS 4182.

### NURS 4176 CLINICAL III HEALTH RESTORATION & MAINTENANCE

The student will apply principles studied in the concurrent theoretical and competency courses for the third semester of nursing courses in a clinical setting. Eighteen hours clinical. **Prerequisites:** NURS 3255, NURS 3265 and NURS 3275. **Corequisites:** NURS 4154, NURS 4163, & NURS 4182.

### NURS 4182 ELECTIVE I

The exploration of selected professional, political, social, legal and/or ethical theory as related to nursing practice in a specified practice setting. Two hours theory. **Prerequisites:** NURS 3255, NURS 3265, & NURS 3275. **Corequisites:** NURS 4154, NURS 4163, NURS 4176.

### NURS 4253 HEALTH MAINTENANCE & PROMOTION

Synthesis of nursing concepts and frameworks and other theories relevant to practice as a nurse dealing with the issues of health promotion and maintenance in today's society. Three hours theory. **Prerequisites:** NURS 4154, NURS 4163, NURS 4176, & NURS 4182. **Corequisites:** NURS 4262, NURS 4275, NURS 4282, & NURS 4293.

### NURS 4262 COMPETENCIES FOR HEALTH MAINTENANCE AND PROMOTION

Use of competencies relevant to practice as a nurse dealing with the issues of health promotion and maintenance in today's society and understanding the scientific principles that underlie the application of these competencies. Two hours theory. **Prerequisites:** NURS 4154, NURS 4163, NURS 4176, & NURS 4182. **Corequisites:** NURS 4253, NURS 4275, NURS 4282, & NURS 4293.

### NURS 4275 CLINICAL IV HEALTH MAINTENANCE & PROMOTION

Application of concepts and theories learned in Health Maintenance and Promotion. The students are expected to integrate material from previous courses and experiences into clinical practice. Fifteen hours clinical. **Prerequisites:** NURS 4154, NURS 4163, NURS 4176, & NURS 4182. **Corequisites:** NURS 4253, NURS 4262, NURS 4282, & NURS 4293.

**NURS 4282 ELECTIVE II**

The application of selected professional, political, social, legal, and/or ethical theory to nursing practice in specified practice settings. Six hours clinical. **Prerequisites:** NURS 4154, NURS 4163, NURS 4176, & NURS 4182. **Corequisites:** NURS 4253, NURS 4262, NURS 4275, & NURS 4293.

**NURS 4293 TRANSITION INTO PROFESSIONAL PRACTICE**

An exploration of the impact of professional education, current trends and issues, and policies on the nursing practice and the delivery of individualized health care. Emphasis is placed on the interface between individual and professional development. Three hours theory. **Prerequisites:** NURS 4154, NURS 4163, NURS 4176, & NURS 4182. **Corequisites:** NURS 4253, NURS 4262, NURS 4275, & NURS 4282.

**RN to BSN Courses**

These courses are specifically designed for the licensed RN returning to school for a baccalaureate degree.

**NURS 4512 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. **Prerequisites:** Admission to the RN to BSN Program.

**NURS 4502 STATISTICS FOR NURSING RESEARCH**

Conceptual overview of statistics, providing information relating to measurement, descriptive, and inferential statistics. Two hours theory. **Corequisites:** NURS 4512.

**NURS 4515 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. Six hours lab. **Corequisites:** NURS 4512.

**NURS 4522 NURSING RESEARCH I**

Emphasis is on competency in the use of the research process in nursing practice. Two hours theory. **Corequisites:** NURS 4512, NURS 4502.

**NURS 4523 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. Two hours theory and three hours clinical. **Corequisites:** NURS 4512.

**NURS 4525 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 six hours clinical. **Corequisites:** NURS 4512.

**NURS 4532 NURSING RESEARCH II**

Continued emphasis is on the competency in the use of the research process in nursing practice. Two hours theory. **Prerequisites:** NURS 4512, NURS 4522.

**NURS 4535 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. Six hours clinical. **Corequisites:** NURS 4512.

**NURS 4542 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. Two hours theory. **Corequisites:** NURS 4512.

**NURS 4552 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. **Prerequisites:** NURS 4512, NURS 4522, NURS 4502. **Corequisites:** Must be in last semester of RN to BSN course work.

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