



2007

Weatherford: Undergraduate Catalog 2007-2008

Southwestern Oklahoma State University

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Catalog 2007-2008

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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 Regional University System of Oklahoma (RUSO) and the Oklahoma State Regents for Higher Education (OSRHE). Certain program modifications reflected in this publication are pending approval. When a program has undergone change, the effective date of the revised program will be indicated.

FEE STRUCTURE

Fees listed in this catalog are those in effect at the time of publication and are subject to change. The current tuition/fee schedule may be viewed at <http://www.swosu.edu/resources/tuition.asp>.

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ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS	Phone: (703) 917-9503 E-mail: info@abhes.org	7777 Leesburg Pike, Suite 730 Falls Church, Virginia 22043
AMERICAN CHEMICAL SOCIETY COMMITTEE ON PROFESSIONAL TRAINING	Phone: (202) 872-4589 FAX: (202) 872-6066 Web site: http://www.acs.org E-mail: cpt@acs.org	1155 16 th Street, N.W. Washington, D.C. 20036
AMERICAN MUSIC THERAPY ASSOCIATION, INC.	Phone: (301) 589-3300 FAX: (301) 589-5175 Web site: http://www.musictherapy.org E-mail: amta@musictherapy.org	8455 Colesville Road Suite 1000 Silver Springs, Missouri 20910
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COMMISSION ON ACCREDITATION OF ATHLETIC TRAINING EDUCATION	Phone: (512)-733-9700 Web-site: http://www.caate.net FAX: (512) 733-9701	2201 Double Creek Drive, Suite 5006 Round Rock, TX 78664
COUNCIL ON SOCIAL WORK EDUCATION	Phone: (703) 683-8080 FAX: (703) 683-8099 Web site: http://www.cswe.org	1725 Duke Street, Suite 500 Alexandria, Virginia 22314-3457
INTERNATIONAL ASSEMBLY FOR COLLEGIATE BUSINESS EDUCATION	Phone: (913) 631-3009 FAX: (913) 631-9154 Web site: http://www.iacbe.org E-mail: iacbe@iacbe.org	P.O. Box 25217 Overland Park, Kansas 66225
JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)	Phone: (312) 704-5300 FAX: (312) 704-5304	20 North Wacker Drive, Suite 900 Chicago, Illinois 60606-2901
NATIONAL ASSOCIATION OF INDUSTRIAL TECHNOLOGY (NAIT)	Phone: (734) 677-0720 FAX: (734) 677-0046 Web site: http://www.nait.org E-mail: nait@nait.org	3300 Washtenaw Avenue – Suite 220 Ann Arbor, MI 48104-4200
NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC	Phone: (703) 437-0700 FAX: (703) 437-6312 Web site: http://www.art-accredit.org E-mail: info@art-accredit.org	11250 Roger Bacon Drive, Suite 21 Reston, Virginia 20190
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
NATIONAL LEAGUE FOR NURSING ACCREDITING COMMISSION	Phone: (800) 669-1656 ext. 362 FAX: (212) 812-0390 Web site: http://www.nlnac.org E-mail: rdesantis@nlnac.org	61 Broadway 33 rd Floor New York, New York 10006
OKLAHOMA BOARD OF NURSING	Phone: (405) 962-1800 FAX: (405) 962-1821 Web site: http://www.youroklahoma.com/nursing	2915 N. Classen Boulevard, Suite 524 Oklahoma City, Oklahoma 73106
OKLAHOMA COMMISSION FOR TEACHER PREPARATION (OCTP)	Phone: (405) 525-2612 FAX: (405) 525-0373 Web site: http://www.octp.org E-mail: octp@octp.org	4545 N. Lincoln Blvd., Suite 275 Oklahoma City, Oklahoma 73105-3418
OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION	Phone: (405) 225-9100 FAX: (405) 225-9235 Web-site: http://www.okhighered.org/	655 Research Parkway, Suite 200 Oklahoma City, OK 73104
TECHNOLOGY ACCREDITATION COMMISSION (TAC) OF THE ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY (ABET)	Phone: (410) 347-7700 FAX: (410) 625-2238 Web site: http://www.abet.org	111 Market Pl., Suite 1050 Baltimore, Maryland 21202
THE HIGHER LEARNING COMMISSION 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 to the extent possible. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability or disabilities. It is the student's responsibility to request documentation from such professionals, and to request a record of accommodations received at any other educational institution. Appropriate documentation for learning disabilities should be provided with adult norms; typically assessment during high school years will meet this requirement. 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) 774-3767.

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 2007-2008**

***FALL SEMESTER 2007**

August 17	Friday	Freshman Orientation Clinic
August 20	Monday (8:30 a.m.)	Faculty Workshop
August 21	Tuesday	Enrollment for students who did not pre-enroll
August 22	Wednesday (8:00 a.m.)	Classwork begins
August 28	Tuesday (4:30 p.m.)	Last day to add classes
September 3	Monday	Labor Day Holiday
September 5	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 17	Wednesday (10:00 p.m.)	Fall break begins
October 22	Monday (8:00 a.m.)	Classwork resumes
November 2	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
November 16	Friday	State Centennial Holiday
November 20	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
November 26	Monday (8:00 a.m.)	Classwork resumes
December 7	Friday	Last day to drop with a WP/WF
December 13, 14	Thursday, Friday	Final exams
17-19	Monday - Wednesday	Final exams
December 19	Wednesday (10:00 p.m.)	Semester break begins
December 20	Thursday (12 noon)	Final grades due
December 21	Friday	Semester ends

***SPRING SEMESTER 2008**

January 9	Wednesday	Enrollment for students who did not pre-enroll
January 10	Thursday (8:00 a.m.)	Classwork begins
January 16	Wednesday (4:30 p.m.)	Last day to add classes
January 23	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 14	Friday (5:00 p.m.)	Spring break begins
March 24	Monday (8:00 a.m.)	Classwork resumes
March 28	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
April 25	Friday	Last day to drop with a WP/WF
May 1, 2, 5-7	Thursday, Friday, Monday-Wednesday	Final exams
May 8	Thursday (12 noon)	Final grades due
May 10	Saturday (10:00 a.m.)	Convocation
May 10	Saturday	Semester ends

***SUMMER SEMESTER 2008**

June 2	Monday	Enrollment for students who did not pre-enroll
June 3	Tuesday (8:00 a.m.)	Classwork begins
June 4	Wednesday (4:30 p.m.)	Last day to add classes
June 9	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
July 1	Tuesday	Final exams for the 1 st 4 week classes
July 4	Friday	Independence Day Holiday
July 11	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
July 25	Friday	Last day to drop with a WP/WF
July 29, 30	Tuesday, Wednesday	Final exams and final exams for the 2 nd 4 week classes
July 31	Thursday (12 noon)	Final grades due
July 31	Thursday	Semester ends

**See early enrollment dates listed in class enrollment process information booklet.*

**SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
ACADEMIC CALENDAR 2008-2009**

***FALL SEMESTER 2008**

August 15	Friday	Freshman Orientation Clinic
August 18	Monday (8:30 a.m.)	Faculty Workshop
August 19	Tuesday	Enrollment for students who did not pre-enroll
August 20	Wednesday (8:00 a.m.)	Classwork begins
August 26	Tuesday (4:30 p.m.)	Last day to add classes
September 1	Monday	Labor Day Holiday
September 3	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 15	Wednesday (10:00 p.m.)	Fall break begins
October 20	Monday (8:00 a.m.)	Classwork resumes
October 31	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
November 25	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
December 1	Monday (8:00 a.m.)	Classwork resumes
December 5	Friday	Last day to drop with a WP/WF
December 11, 12	Thursday, Friday	Final exams
15-17	Monday - Wednesday	Final exams
December 17	Wednesday (10:00 p.m.)	Semester break begins
December 18	Thursday (12 noon)	Final grades due
December 19	Friday	Semester ends

***SPRING SEMESTER 2009**

January 7	Wednesday	Enrollment for students who did not pre-enroll
January 8	Thursday (8:00 a.m.)	Classwork begins
January 14	Wednesday (4:30 p.m.)	Last day to add classes
January 21	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 13	Friday (5:00 p.m.)	Spring break begins
March 23	Monday (8:00 a.m.)	Classwork resumes
March 27	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
April 24	Friday	Last day to drop with a WP/WF
April 30, May 1	Thursday, Friday	Final exams
4-6	Monday-Wednesday	Final exams
May 7	Thursday (12 noon)	Final grades due
May 9	Saturday (10:00 a.m.)	Convocation
May 9	Saturday	Semester ends

***SUMMER SEMESTER 2009**

June 1	Monday	Enrollment for students who did not pre-enroll
June 2	Tuesday (8:00 a.m.)	Classwork begins
June 3	Wednesday (4:30 p.m.)	Last day to add classes
June 8	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
June 30	Tuesday	Final exams for the 1 st 4 week classes
July 3	Friday	Independence Day Holiday
July 10	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
July 24	Friday	Last day to drop with a WP/WF
July 28, 29	Tuesday, Wednesday	Final exams and final exams for the 2 nd 4 week classes
July 30	Thursday (12 noon)	Final grades due
July 30	Thursday	Semester ends

**See early enrollment dates listed in class enrollment process information booklet.*

**SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
ACADEMIC CALENDAR 2009-2010**

***FALL SEMESTER 2009**

August 14	Friday	Freshman Orientation Clinic
August 17	Monday (8:30 a.m.)	Faculty Workshop
August 18	Tuesday	Enrollment for students who did not pre-enroll
August 19	Wednesday (8:00 a.m.)	Classwork begins
August 24	Monday (as scheduled)	Monday night classes meet
August 25	Tuesday (4:30 p.m.)	Last day to add classes
September 7	Monday	Labor Day Holiday
September 9	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 14	Wednesday (10:00 p.m.)	Fall break begins
October 19	Monday (8:00 a.m.)	Classwork resumes
November 6	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
November 24	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
November 30	Monday (8:00 a.m.)	Classwork resumes
December 4	Friday	Last day to drop with a WP/WF
December 10, 11	Thursday, Friday	Final exams
14-16	Monday - Wednesday	Final exams
December 16	Wednesday (10:00 p.m.)	Semester break begins
December 17	Thursday (12 noon)	Final grades due
December 18	Friday	Semester ends

***SPRING SEMESTER 2010**

January 6	Wednesday	Enrollment for students who did not pre-enroll
January 7	Thursday (8:00 a.m.)	Classwork begins
January 11	Monday (as scheduled)	Monday night classes meet
January 13	Wednesday (4:30 p.m.)	Last day to add classes
January 20	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 12	Friday (5:00 p.m.)	Spring break begins
March 22	Monday (8:00 a.m.)	Classwork resumes
March 26	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
April 23	Friday	Last day to drop with a WP/WF
April 29,30 & May 3-5	Thursday, Friday, Monday-Wednesday	Final exams
May 6	Thursday (12 noon)	Final grades due
May 8	Saturday (10:00 a.m.)	Convocation
May 8	Saturday	Semester ends

***SUMMER SEMESTER 2010**

June 7	Monday	Enrollment for students who did not pre-enroll
June 8	Tuesday (8:00 a.m.)	Classwork begins
June 9	Wednesday (4:30 p.m.)	Last day to add classes
June 14	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
July 5	Monday	Independence Day Holiday
July 6	Tuesday	Final exams for the 1 st 4 week classes
July 16	Friday (4:30 p.m.)	Last day to drop with a guaranteed "W" and last day to add CAI courses
July 30	Friday	Last day to drop with a WP/WF
August 3, 4	Tuesday, Wednesday	Final exams and final exams for the 2 nd 4 week classes
August 5	Thursday (12 noon)	Final grades due
August 5	Thursday	Semester ends

**See early enrollment dates listed in class enrollment process information booklet.*

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Jerome Wichert, B.A., M.A. Director of Student Financial Services

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.

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Instructor; B.A., Ohio State University; M.Ed., Southwestern Oklahoma
State University.

FRED ALSBERG (1991).....Language and Literature
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LISA APPEDDU (2004).....Allied Health Sciences
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Assistant Professor; B.S., University of Kansas; M.S., University of
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Assistant Professor; B.A., Oklahoma State University; J.D., University of
Tulsa.

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Associate Professor; B.S., M.B.A., Southwestern Oklahoma State
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MELINDA C. R. BURGESS (2003).....Psychology
Associate Professor; B.A., Colby College, M.A., Hollins College; Ph.D.,
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STEPHEN R. BURGESS (1997)Psychology
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Ph.D., Florida State University.

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Instructor; B.S.N., Southwestern Oklahoma State University; M.S.,
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ERIN C. CALLEN (2003).....Pharmacy Practice
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DEBBIE CASE (1995)Elem./Second. Programs
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E. DANIEL DILL (1968)..... Associate Vice President
for Academic Affairs/Graduate School Dean; Professor; B.S.,
Southwestern Oklahoma State University; Ph.D., University of Arkansas.

MARGARET J. DONLEY (1978)..... Art
Assistant Professor; B.A., Southwestern Oklahoma State University,
Florida Atlantic University; M.F.A., Instituto de Allende, Mexico.

THELMA W. DYE (1993) Nursing
Instructor; B.S.N., M.S.N., Texas A&M University-Corpus Christi.

ROGER W. EGERTON (1963) Marketing
Professor; B.S., Bethany Nazarene College; M.B.Ed., University of
Oklahoma, Indiana University; Ed.D., Oklahoma State University.

RAMONA JEANNE ELLINGER (1965) English
Associate Professor; B.A., Southwestern Oklahoma State University;
M.A., University of Oklahoma; Ph.D., Oklahoma State University.

R. PAULINE FAHLE (1968)..... Business Administration
Associate Professor; B.S., M.S., Oklahoma State University; J.D.,
University of Oklahoma.

BESSIE E. FIEGEL (1966)..... Home Economics
Assistant Professor; B.S., University of Science and Arts of Oklahoma;
M.S., Oklahoma State University, University of Oklahoma.

MELVIN F. FIEGEL (1966)..... History
Professor; B.S., M.A., Oklahoma State University; M.Ed., University of
Oklahoma; Ed.D., Oklahoma State University

LOIS B. FISHER (1967)..... English
Assistant Professor; B.A., Southwestern Louisiana Institute; M.A.,
Louisiana State University, Western State (Colorado) College, University
of Oklahoma.

HARLAN D. FRAME (1969)..... Chemistry
Associate Professor; B.A., University of Wichita; M.S., Ph.D., University
of Illinois.

- LOWELL V. GADBERRY (1981)Elementary/Secondary Programs; Professor; B.S.Ed., University of Central Arkansas, M.S.E., Henderson State University; Ed.D., George Peabody College of Vanderbilt University.
- MIDGE GERBER (1984)General Business Instructor; B.S., M.Ed., Southwestern Oklahoma State University.
- LARRY GEURKINK (1976) Health, Physical Education, and Recreation; Instructor; B.S., Phillips University; M.T., Central State University.
- ROY E. GILLASPY (1981)Technology Associate Professor; B.A., M.A., Ed.D., Arizona State University.
- GARY H. GILLILAND (1974) School of Behavioral Sciences and Education; Associate Dean and Professor; B.S., M.Ed., Texas Tech University; Ed.D., East Texas State University.
- LARRY B. GODLEY (1982)Elementary/Secondary Programs; Associate Professor; B.S., Northwestern Oklahoma State University; M.S., Ed.D., Oklahoma State University.
- THOMAS M. GRAY (1958)Biological Sciences Professor; B.S., Kansas State College of Pittsburg; M.S., Kansas State University; Ph.D., University of Oklahoma.
- DUWAYNE J. GRAYBILL (1987)Technology Assistant Professor; B.S., Southwestern Oklahoma State University; M.S., Pittsburg State University.
- JAMES F. GRIFFIN (1970)Technology Professor; B.S., Fort Hays State College; M.A., Colorado State College; Ed.D., University of Missouri.
- BOBBY D. GUNTER (1967)Chemistry Professor; B.S., College of the Ozarks; M.S., Vanderbilt University, Texas Christian University; Ph.D., University of Arkansas.
- DENISE L. HAMBURGER (1976)Business Assistant Professor; B.S., M.S., Oklahoma State University.
- DONALD I. HAMM (1951) Dean, School of Arts and Sciences; Professor of Chemistry; B.S., University of Oklahoma; M.S., Purdue University; Ph.D., University of Oklahoma.
- OPAL R. HAMPTON-CRALL (1986) Elementary and Special Education; Instructor; B.S., University of Arts and Science of Oklahoma; M.Ed., Southwestern Oklahoma State University.
- DALE B. HANSON (1955) Business Director, Master of Education-Business; Professor; B.S., M.A., Emporia State College; Ed.D., University of Oklahoma.
- AL M. HARRIS (1960)President B.S., B.A., Southwestern Oklahoma State University; M.A., George Peabody College for Teachers, University of Oklahoma; Ed.D., Oklahoma State University.
- GEORGE B. HAUSER (1976)Athletics; B.A., M.Ed., Central State University.
- WAYNE HAYES (1968)Mathematics Associate Professor; B.S., Southwestern Oklahoma State University; M.S., Ed. D., Oklahoma State University.
- GEORGE E. HEJNA (1969)Speech Instructor; Pasadena Playhouse College of Theatre Arts; B.S., Northwestern University; M.S., University of Utah.
- FAYE M. HENSON (1975) Allied Health Sciences Assistant Professor; B.S., Southwestern Oklahoma State University; R.H.I.A., C.C.S., Hillcrest Medical Center; M.Ed., Southwestern Oklahoma State University.
- HARRY L. HENSON, JR. (1969) Biological Sciences Professor; B.S., Southeastern Louisiana College; M.Ed., M.S., Ph.D., Louisiana State University.
- DONALD V. HERTZLER (1969) Chemistry Professor; B.S., Northwestern Oklahoma State University; M.S., Ph.D., Oklahoma State University.
- JOE ANNA HIBLER (1965)President B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., University of Oklahoma.
- BENNY J. HILL (1964) Physics Department Chair and Professor; B.S., Southwestern Oklahoma State University, University of New Mexico; Ph.D., Texas A&M University.
- SHEILA W. HOKE (1963)Library Director A.B., B.S., University of Kansas; M.L.S., University of Wisconsin; M.Ed., Southwestern Oklahoma State University.
- CONSTANT HOOD (1972)English Assistant Professor; B.S.Ed., M.A., North Texas State University, University of Texas, University of Iowa.
- PEDRO L. HUERTA, JR. (1972)Pharmacy Professor, Chair, Department of Medicinal Chemistry; B.S., Texas A&I; B.S., Ph.D., University of Texas.
- CHARLES H. HUNDLEY (1966)Health and Physical Education; Department Chair and Professor; B.S., M.S., Ed.D., Oklahoma State University; Western State College (Colorado), Colorado State College.
- JOELLA W. HUNDLEY (1966) Office Administration/ Business Education; Department Chair and Assistant Professor; B.S., M.S., Oklahoma State University; Western State College (Colorado), Colorado State College.
- FRED G. JANZEN (1971) Vice President for Student Services; Associate Professor; B.S.Ed., Southwestern Oklahoma State University, Central State University; M.Ed., Texas Tech University, East Texas State University; Ed.D., Texas Tech University.
- JAMES JENT (1990)Technology Associate Professor; B.S., University of Maryland; M.S., University of Arkansas; Ed.D., Oklahoma State University.
- BEVERLY JONES (1993)Director, Library B.A., Bethany Nazarene College; M.P.A., University of Oklahoma; M.S.L.S., University of Illinois.
- LEE D. JONES (1965) Geography Assistant Professor; B.A., Southeastern Oklahoma State University, University of Washington; M.A., University of Oklahoma, Colorado State College.
- RAY C. JONES (1969) Physics Professor; B.S., Ph.D., Louisiana State University, University of California.
- JERRY KAUFMAN (1992)Dean, School of Business Professor; B.S., Southwestern Oklahoma State University; M.S., Ph.D., Oklahoma State University; C.P.A.
- BERNARD G. KELLER, JR. (1969)Pharmacy Professor; B.S., Loyola University of New Orleans; M.S., Ph.D., University of Mississippi.
- MICHAEL A. KERLEY (1971) Biological Sciences Professor; B.S., Stephen F. Austin State University; M.S., Ph.D., Texas A&M University.
- CLAUDE D. KEZER (1969) Language Arts Assistant Professor; B.F.A., M.F.A., University of Oklahoma.

HENRY KIRKLAND, JR. (1972) Biological Sciences
Professor; B.S. Langston University; M.Ed., Southwestern Oklahoma
State University; Ed.D., Oklahoma State University.

JAMES D. KITCHENS (1971) School Service
Programs; Professor; B.S., Oklahoma Panhandle State University;
M.Ed., Ph.D., East Texas State University.

VERLIN F. KOPER (1964) Mathematics
Associate Professor; B.S., Southwestern Oklahoma State University;
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R. SAM LACKEY (1970) Language Arts
Assistant Professor; B.A., M.A., Ph.D., University of Tulsa.

CHARLOTTE N. LAM (1967) Elementary and Special
Education; Professor; B.A., University of Oklahoma; M.T., Southeastern
Oklahoma State University; Ph.D., University of Oklahoma.

ELSIE M. LANG (1971) English
Assistant Professor; B.S.Ed., M.T., Southwestern Oklahoma State
University, University of Oklahoma, Oklahoma State University.

R. PARK LANG (1970) Art
Department Chair and Assistant Professor; B.F.A., M.A., University of
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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.

ROBERT T. LYNN (1967) Biological Sciences
Professor; B.A., M.A., Florida State University; Ph.D., University of
Oklahoma.

NANCY J. McCLAIN (1982) Interdisciplinary Studies
Professor; B.S., Utah State University; M.A., Michigan State University;
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JOHN W. McCOY (1970) English
Assistant Professor; B.A.Ed., Oklahoma Panhandle State University,
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DONALD J. McGURK (1968) Chemistry and Physics
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KAREN S. McGURK (1979) Chemistry and Physics
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RAYMOND L. McKELLIPS (1959) Mathematics
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VERDA C. McKELLIPS (1966) Accounting Professor
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University; Ed.D., University of Oklahoma.

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Professor; B.S., M.S., South Dakota State University; Ph.D., Kansas State
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PATRICIA MEYER (1986) Nursing
School of Nursing; Associate Dean and Associate Professor; B.S.N.,
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KEREN P. MILLER (1966) Home Economics
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DONALD L. MITCHELL (1967) Technology
Professor; B.S., M.T., Southwestern Oklahoma State University; Ed.D.,
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ROBIN N. MONTGOMERY (1969) Social Sciences
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University; M.A., Ph.D., University of Oklahoma.

ROBERT O. MORRIS (1968) Mathematics
Professor; B.S., Southwestern Oklahoma State University; M.S.,
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LINVILLE MURDOCK (1967) Health, Physical Education,
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PAUL R. NAIL (1980) Psychology
Professor; B.S.Ed., M.Ed., M.S., Southwestern Oklahoma State
University; Ph.D., Texas Christian University.

EDWARD NEPARKO (1963) Chemistry
Professor; B.S., M.S., University of Manitoba; Ph.D., University of
Oklahoma.

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

JERRY G. NYE (1967) Language Arts
Professor; B.A., East Central Oklahoma State University; M.A.,
Oklahoma State University; Ed.D., University of Northern Colorado.

GUSTAVO R. ORTEGA (1975) Pharmaceutical Sciences
Professor; B.S., Ph.D., University of Texas at Austin.

CHARLES W. PAGE (1970) Accounting/Finance
Department Chair and Professor; B.S., M.S., Oklahoma State University;
Ed.D., University of Northern Colorado; C.P.A.

CLARENCE L. PETROWSKY (1963) Social Sciences
Department Chair and Professor; B.A., Washburn University of Topeka;
M.A., Ph.D., University of Oklahoma.

VILAS A. PRABHU (1980) Associate Provost for Academic
and Student Affairs; Bernhardt Professor of Pharmacy; B.S., University
of Bombay; M.S. Idaho State University; M.B.A., Southwestern
Oklahoma State University; Ph.D., University of Texas-Austin.

DON PROCK (1958) Mathematics
Professor; B.S., Southwestern Oklahoma State University; M.Ed.,
University of Oklahoma; M.A. Mathematics, University of Illinois;
Ed.D., Oklahoma State University.

EARL E. RALEIGH (1969) Office Administration/
Business Education; Assistant Professor; B.S.Ed., Northeastern
Oklahoma State University; M.S., Oklahoma State University.

JUDITH A. (WINCHESTER) RAY (1979) Elementary/Secondary
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ROBERT R. REEDER (1982) Business Administration
Professor; B.S., University of Nevada; M.B.A., Ph.D., University of
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KEITH W. REICHMANN (1973) Pharmaceutical Sciences
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LAJUANA REICHMANN (1977) Nursing
Assistant Professor; B.S., Brigham Young University; M.Ed.,
Southwestern Oklahoma State University; M.S., University of Oklahoma;
Ph.D., Texas Woman's University.

BET RICE (1988) Provost
B.A., M.Ed., Southwestern Oklahoma State University; Ph.D., Kansas
State University.

STANLEY L. ROBERTSON (1990) Chemistry and Physics
Professor; B.S., East Central State University; M.S., Ph.D., University of
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JOANNA T. ROPER (1971) English
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Oklahoma State University, Oklahoma State University.

W. EDWARD ROLISON (1966) Social Sciences
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DOLORES J. RUSSELL-ORTEGA (1984) School Service
Programs; Assistant Professor; B.S.Ed., M.Ed., Phillips University.

RANDALL RUSSELL (1973) Business Administration
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JAY P. SCHALE (1985) Music
Instructor; B.A.Ed., Northeastern Oklahoma State University; M.M.,
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LEROY SCHULTZ, JR. (1969) Art
Assistant Professor; B.A.Ed., M.T., Central State University, Oklahoma
State University, University of Oklahoma, Oklahoma City University.

JANA LOU SCOTT (1966) Elementary/Secondary
Programs; Professor; B.S.Ed., M.T., Southwestern Oklahoma State
University; Ed.D., University of Arkansas, Oklahoma State University.

RONALD H. SEGAL (1967) Biological Sciences
Professor; A.B., University of California at Los Angeles; M.A., Ph.D.,
University of Kansas.

JAMES D. SILL (1960) Public Services and General
Education; B.A., Missouri Valley College; B.S., Presbyterian Theological
Seminary; Th.D., Central Baptist Theological Seminary, Presbyterian
Theological Seminary, Army Chaplain School, Harvard University,
Central Missouri State University, Army Command and General Staff
College.

ANNA L. SMITH (1966) Foreign Language
Associate Professor; B.A., Sam Houston State Teachers College; M.A.,
Ph.D., University of Oklahoma.

JACK E. SMITH (1990) School Service Programs
Assistant Professor; B.A., M.Ed., Northwestern State University
(Louisiana); Ed.D., University of Arkansas.

KENNETH J. SNYDER (1972) Music
Associate Professor; B.A., Indiana State University (Pennsylvania); M.A.,
Western State University (Colorado); D.M.A., University of Colorado.

WANDA STIMSON (1983) Elementary and Special
Education; Associate Professor; B.S., Kent State University; M.Ed.,
Ph.D., North Texas State University.

G.B. STOTTS (1968) Industrial Education and Technology
Assistant Professor; B.S., East Central Oklahoma State University; M.S.,
University of Oklahoma; Kansas State College of Pittsburg, Southwestern

Oklahoma State University, Oklahoma State University, North Texas
State University, Southeastern Oklahoma State University.

CLARENCE STURM (1967) Language Arts
Professor; B.A., North Texas State University; M.A., Texas
Technological College; Ph.D., Oklahoma State University.

MONA JEAN SUTER (1968) Language Arts
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LAURA M. SWITZER (1965) Health, Physical Education,
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Southwestern Oklahoma State University; Ed.D., University of
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CHARLES TEASLEY (1998) Baseball Coach, Kinesiology
Instructor; B.Ed., M.Ed., Southwestern Oklahoma State University.

HOMER F. TIMMONS (1956) Pharmacy
Dean, School of Health Sciences, Professor; B.S., Oklahoma State
University; M.S., Ph.D., University of Oklahoma.

MATTIE TOLLEY (1988) Nursing
Instructor; B.S.N., Holy Names College; M.S., University of
Oklahoma.

GARY L. TOMPKINS (1973) Social Sciences
Associate Professor; B.S.Ed., Central Missouri State College; Ph.D.,
University of Missouri.

CAROLYN A. TORRENCE (1976) Library
Reference Librarian; B.A., Washburn University; M.L.S., Emporia State
University; M.Ed., Southwestern Oklahoma State University.

KAREN TRAVIS (1996) Elementary/Secondary Programs
Chair and Associate Professor; B.S., M.Ed., Southwestern Oklahoma
State University; Ed.D., Oklahoma State University.

PAULINE TRAVIS (1983) School Service Programs
Assistant Professor; B.S., M.Ed., Central State University; Ph.D.,
University of Oklahoma.

WILLIAM G. WAGGONER (1969) Pharmaceutics
Professor; B.S., Texas Tech University; B.S., Southwestern Oklahoma
State University; Ph.D., University of Mississippi.

EDWARD WANEK (1988) Pharmaceutical Sciences
Associate Professor; B.S., University of Montana; Ph.D., University of
Texas.

M.C. WEBER (1964) Chemistry
Professor; B.S.Ed., Southwestern Oklahoma State University; M.S.,
University of New Mexico, University of California; Ed.D., University of
Oklahoma.

RALPH NEAL WEBER (1968) Pharmaceutical Sciences
Associate Professor; B.S., Northwestern Oklahoma State University;
M.A., Middle Tennessee State University; M.S., Ph.D., University of
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C. DEAN WHEELER (1982) Computer Science
Associate Professor; B.S., Southwestern Oklahoma State University;
M.S.T., Cornell University; M.S., Ph.D., University of Illinois.

MAX L. WHITE (1983) Computer Science
Assistant Professor; B.B.A., Eastern New Mexico University; M.B.A.,
Southwestern Oklahoma State University.

DELENN L. WILLIAMS (1966) Speech
Assistant Professor; B.A., M.A., Midwestern University (Texas), North
Texas State University, Columbia University, University of Oklahoma.

W. DAN WILLIAMS (1969)Mathematics
Assistant Professor; B.S., Northeastern Oklahoma State University; M.A.,
University of Arkansas, University of Montana, University of Oklahoma.

RICHARD D. WILSON (1970).....Journalism
Instructor; B.S., M.S., Oklahoma State University.

PAULETTE WOODS (1993)Dean of Students
B.S., Oklahoma State University; M.S., University of Illinois; M.S.Ed.,
University of Wisconsin-River Falls; Ph.D., University of Minnesota.

E. T. WOODY, JR. (1958)Secondary Education
Professor; B.S., Southwestern Oklahoma State University; M.S., Kansas
State Teachers College, University of Kansas City; Ed.D., University of
Northern Colorado.

DAVID E. WRIGHT, JR. (1973).....Social Sciences
Assistant Professor; B.S., M.S., Texas A&M University, Mississippi State
University.

ERNESTINE H. WRIGHT (1968).....Health and Physical
Education; Assistant Professor; B.S., M.T., Southwestern Oklahoma State
University, Oklahoma State University.

LYNN YOUNG-STUDIER (1975).....University Nurse
Pharmacy Practice; Instructor; R.N., Northwest Texas Hospital School of
Nursing.

SCHOOLS OF MEDICAL TECHNOLOGY

(12-Month Clinical Programs)

Adjunct Instructors, School of Allied Health Sciences

Program Directors and Medical Directors

Gary Jackson, SH (ASCP), CLS (NCA)
Program Director
Dr. Joy Snell, M.D., Medical Director
Comanche County Memorial Hospital
Lawton, OK

Cheryl A. Weems, MT, (ASCP) SC
Leah Babcock, MT (ASCP)
Program Director
Dr. L. W. Cartmell, Medical Director
Valley View Regional Hospital
Ada, OK

Program Director, Robert King, MBA, MT (ASCP)
Dr. Brian Bock, Medical Director
Muskogee General Hospital
Muskogee, OK

Gwendolyn Morman, MA, MS, MT (ASCP)
Program Director
Dr. Stuart Smith, M.D., Medical Director
United Regional Health Care System
Wichita Falls, TX

Theresa Foster, MPH, MT (ASCP), SH
Program Director
Dr. Stanley White, Medical Director
St. Francis Hospital
Tulsa, OK



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 five advanced degrees. The Master of Education degree was inaugurated in 1969. (The Master of Teaching Degree was offered during the period 1953-1969.) Graduate programs leading to the following degrees have been added since 1969: Master of Business Administration, 1977; Master of Music, 1981; a professional doctorate, the Doctor of Pharmacy (PharmD), 1998; and a Master of Science in School Psychology, 2005.

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 Regional University System of Oklahoma. Southwestern Oklahoma State University provides access to higher education for all individuals without discrimination on the basis of race, national origin, gender, or disability status.

The mission of Southwestern Oklahoma State University 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 Fine 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
- Master of Science in School Psychology
- Doctor of Pharmacy

SOUTHWESTERN CAMPUS

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

ADMINISTRATION BUILDING: This building contains the offices of the President, Provost, Associate Provost, Business Affairs, Campus Operator, Human Resources, Institutional Advancement, Institutional Research, Mailroom, Payroll, Public Relations & Marketing, 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, seminar rooms for group use, and a 125 seat auditorium in the lower level. A wireless laptop and PC network along with public printers are also available in the Library.

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, PRAXIS and TOEFL.

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 full-time upper level students or students with dependents..

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

BURTON HOUSE: This structure, located on the south edge of the campus, was formerly used as the President's residence. It has been converted into offices for Academic Support & Career Services and New Student Orientation. Tutoring services are provided by individual departments.

CAMPBELL BUILDING: This building provides faculty offices and classrooms for the Department of Communication and Theatre, Department of Language and Literature, 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: The Economic and Business Development Center is 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, Department of Parks and Recreation Management, 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 Bernhardt Lecture Hall, 10 classrooms, five computer labs, and two seminar rooms. The School of Business and Technology, Department of Accounting and Finance, Department of Management and Marketing, and the Office of Web Site Management occupy the third floor of the building. The second floor houses Information Technology Services, the Department of Entrepreneurship and Computer Systems, 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 coffee shop, a ballroom, lounges, 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. The School of Nursing is located in the basement of Stewart Hall.

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

WELLNESS CENTER: Health Services, Counseling Services, Intramural offices and a juice bar surround a complete workout facility consisting of three basketball courts, a cardiovascular room, a weight room, aerobic rooms, classrooms, racquetball courts, a rock tower, and a meeting area for students.

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 1,225 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 supervisor 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. There is a \$65 contract breakage fee for students who fail to complete the contract requirements.

The cost of a room is \$750 for a semi-private room and \$1,200 for a private room per semester. This cost includes utilities, local telephone service, local expanded cable service, and wireless internet. Meal plans range from 9 to 19 meals per week costing from \$950.00 to \$1,250.00 per semester. All residence hall contracts are binding for the academic semester in which the student wishes housing. (Housing and Meal Plan rates are subject to change.)

BULLDOG APARTMENTS

There are 32 University-owned, one-bedroom apartments available to full-time upper level students or students with dependents. All of these units are unfurnished. Rent is \$290 per month (utility bills paid). Inquiry should be made in the office of the Director of Residence Life and Housing. (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).

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

Rates shown are per credit hour.

TUITION*

1- 2- 3- 4000	Level Courses	\$125.00
5000	Level Courses	\$150.00
	Nursing School Courses	\$146.00
	Pharm D Courses.....	\$300.00

NON-RESIDENT STUDENT TUITION*

1- 2- 3- 4000	Level Courses	\$285.00
5000	Level Courses	\$350.00
	Nursing School Courses	\$346.00
	Pharm D Courses.....	\$600.00

*Tuition rates include the following special fees per credit hour:

- Facility Fee - \$7.50
- Student Activity Fee - \$8.50
- Technology Service Fee - \$9.00.

CHARGES FOR SPECIAL SERVICES

ACT Residual Exam	\$35.00
Application Fee	\$15.00
Art, Technology, Instructional Media.	Cost of material used
Audit (without credit), each credit hour.....	Same charge as tuition
CLEP Exams.....	\$75.00
Electronic Media Fee (telecourses, per credit hour).....	\$5.00
(in addition to tuition cost per credit hour)	
New Student Orientation Fee	\$5.00
Off-Site Interactive Video Course Fee	\$20.00
Remedial Course Fee:	
(per credit hour, in addition to regular tuition)	\$20.00
Science Laboratory Course	Cost of breakage
Supplies Fee.....	Varies by department
(applies to some Art, Biology, Chemistry, Computer, and P.E. classes; fee is in lieu of supplies being purchased by student)	
Web-Based Course Fee (per hour)	\$20.00

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

ACADEMIC SUPPORT & CAREER SERVICES

Southwestern Oklahoma State University provides career services for all students 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 review/critique, mock interviews, on-campus interviews, resume referrals, job listings, company research material and four career fairs. Students and alumni can also take advantage of the Bulldog Job Board to search for employment opportunities. Visit Career Services at www.swosu.edu/careers for complete details or visit their office located in the Burton House.

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.

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 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 230,000 bound volumes and subscribes to 1,300 periodicals. The collection is expanded by 1,000,000 microforms and access to 75 online and full text databases. As 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.

COUNSELING SERVICES

Personal counseling is offered at Counseling Services. Confidential counseling is provided by a licensed professional counselor and is available to Southwestern students at no charge. Counseling sessions are typically short-term and referrals are available.

DEAN OF STUDENTS AND DIRECTOR OF STUDENT ACTIVITIES

Major functions and responsibilities of the Office of the Dean of Students include monitoring student conduct and compliance with university policies and for providing leadership for the resolution of student problems. Areas of direct responsibility include 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. Also, coordinates Service Learning and the American Democracy Project activities with faculty.

HEALTH SERVICES

The University employs an Advanced Registered Nurse Practitioner (ARNP) who sees students, staff, and faculty for acute and chronic health related needs and concerns as well as minor injuries. ARNP services are available on days when classes are in session. Health Services also manages student compliance with state immunization laws. Health Services is located in the Wellness Center and is open Monday through Friday, 8:00 a.m. - 12:00 p.m. and 1:00 p.m. - 5:00 p.m.

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). NSO includes enrollment sessions prior to the beginning of the fall semester in which students receive academic advisement and enroll in fall coursework; Mass Orientation, a SWOSU tradition when students meet as an entire class; and an eight-week freshman orientation course. More than 30 student Orientation Leaders (OLs) assist with 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.

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.

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 as well as an Enrollment Report each semester.

The Department 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.

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

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

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

The *Scholarship Handbook*, the *Student Handbook*, and the *University Catalog* are published by the Office of the Associate Provost.

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

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

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

PUBLIC RELATIONS & MARKETING OFFICE

The Public Relations & Marketing Office is responsible for all publicity of activities and events concerning the University as they relate to media sources. The office operates a news service for daily and weekly newspapers, radio and television stations, and the SWOSU web site. 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 Regional University System of Oklahoma. 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.

STEP AHEAD PROGRAM

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

STUDENT FINANCIAL SERVICES

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

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.

Alpha Phi Sigma: Honor society devoted to involving students from different major programs in an academic and social setting.

Alpha Psi Omega: National honorary dramatic fraternity.

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

Baptist Collegiate Ministry: Center to promote Christian growth and fellowship.

Beta Beta Beta: See Tri-Beta.

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

Biology Club: See Tri-Beta.

Canterbury Society: Episcopal students' association.

Campus Crusade for Christ: Christian student ministry devoted to helping Christian students grow in their faith and to providing a safe place for all students to learn about Christ.

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

Cheerleaders: Eight students selected to support athletic activities.

Chemistry Club: 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 for peace-seeking people to come together in the promotion of peace.

Collegiate Activities Board: Voluntary student board who plan and create campus wide activities.

Collegiate Oklahoma Music Teachers Association: Organization to promote Music Education.

Collegiate Republicans: Organization of collegiate members of the Republican Party dedicated to electing Republican officials in campus, state, and federal governmental positions and to furthering conservative main principals and ideals.

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

Criminal Justice Student's Association: Association to promote the interest of criminal justice.

English Club: Organization which offers activities for students who love literature and writing.

Fellowship of Christian Athletes: Organization for athletes that meets for weekly discussion and Bible study.

Fellowship of Christian Pharmacists: Organization to unite pharmacy students who are interested in growing closer to Christ as well as each other.

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.

Greek Council: An advisory council to the Dean of Students made up of representatives and officers from the social fraternities and sororities

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.

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

Kappa Delta Pi: Society in professional education.

Kappa Epsilon: Organization to promote women in the profession of pharmacy.

Kappa Gamma Beta: Social organization to provide male students an opportunity to increase school spirit as well as enhance Greek life on campus.

Kappa Kappa Psi: Organization to support college band and the music department.

Kappa Mu Epsilon: Honor society to promote a deeper appreciation for the beauty of mathematics and its applications.

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

Kappa Pi Tau: Organization devoted to community service.

Kappa Psi: National professional pharmaceutical fraternity to advance the profession of pharmacy.

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

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.

National Community Pharmacists Association: Promotes the professional advancement of students who have an interest in independent community pharmacy practice.

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

Nursing Christian Fellowship: Organization of nursing students and faculty whose purpose is to follow Jesus and God's purposes in the world and the profession of nursing.

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.

Parks and Recreation Management Club: Student organization for Parks and Recreation Management, Park Law Enforcement, and Sports Management majors and minors at the undergraduate and graduate levels.

Phi Beta Lambda: Professional organization for business students.

Phi Delta Chi: National professional and social fraternity in pharmacy.

Phi Lambda Sigma: National pharmacy leadership society.

Phi Mu Alpha Sinfonia: Professional music fraternity.

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

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

Pom Pon Squad: Organization to generate school spirit.

Pre-Med Club: Organization made up of Pre-Med students or students who are considering Pre-Med. The objectives of the club are to provide information on medical issues and dealing with admission to Medical School.

Psi Psi Psi: Cultivates spirit of service to support women's causes.

Psychology Club: Student and faculty professional and social association.

Rho Chi Pharmaceutical Honor Society: The national pharmacy academic honor society.

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

Sigma Tau Delta: National professional organization for English majors.

Social Work Association: Organization to promote a communal bond among students interested in having a career in the field of social work.

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

Sorority Council: Responsible for putting on rush and managing campus sororities.

Southwestern Hispanic Association: Social organization for Spanish speaking students.

Southwestern Hockey Club: Organized competition for roller hockey.

Southwestern International Student Association: Social organization to provide cultural awareness for all students and to assist international students in adapting to their new environment.

Southwestern Oklahoma State University Nursing Students Association (SOSUNSA): Organization to help nursing students become aware of their potential in the practice of nursing.

Southwestern Pharmacy Association: Professional organization to promote the profession of pharmacy.

Southwestern 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.

TESTING SERVICES

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

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 in Weatherford. Guidance and financial assistance is provided to eligible physically-handicapped students. Contact the Registrar's Office for information.

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 aid package that will help them attend Southwestern Oklahoma State University. Since educating a student is a family responsibility, the financial service resources in this catalog are not designed to replace family assistance, but to supplement it. Although students and parents are expected to be contributors toward educational expenses, over 65 percent of Southwestern Oklahoma State University students receive some kind of financial assistance.

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

HOW TO APPLY FOR FINANCIAL ASSISTANCE

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

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

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

FINANCIAL AID APPLICATION RECOMMENDED COMPLETION DATES

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

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

SATISFACTORY ACADEMIC PROGRESS

Federal law requires that all students who receive financial aid must maintain the requirements of the Satisfactory Academic Progress (SAP) policy of the University to continue receiving financial aid from the following programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Oklahoma Tuition Aid Grant, Federal Subsidized Stafford Loan, Federal Unsubsidized Stafford Loan, Federal Parent PLUS Loan, Academic Competitiveness Grant (ACG) and National Science and Mathematics Access to Retain Talent (SMART).

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

RETURN OF TITLE IV FUNDS

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

FINANCIAL AID AND RESOURCES

Need Based Financial Aid

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

Federal Pell Grant

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

Federal Supplemental Educational Opportunity Grant (SEOG)

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

Federal Work-Study Employment

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

Academic Competitiveness Grant

The Academic Competitiveness Grant is a federal grant program. First year students must be full-time, a U.S. Citizen, Pell eligible, and must be a student enrolled or accepted for enrollment in the first-year of a two- or four-year degree granting undergraduate program and, after January 1, 2006, must have successfully completed a rigorous secondary school program established by a state or local educational agency that is recognized as rigorous by the Secretary. Also, the individual will not have been previously enrolled in a program of undergraduate education. Second year students must be full-time, a U.S. citizen, Pell eligible and have completed a rigorous secondary school program after January 1, 2005 and have at least a 3.0 GPA at the end of the first academic year.

National SMART Grant

The National SMART Grant is a federal grant program. To be eligible, a student must be full-time, a U.S. Citizen, and Pell eligible. For third- or fourth-year eligibility a student must be pursuing a major in the physical, life, or computer sciences, mathematics, technology, or engineering or in a foreign language that is critical to U.S. national security. The individual must have a 3.0 GPA in coursework required for the designated qualifying major. The third- and fourth-year award is \$4000 each year.

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, to help pay for the student's education. A student must be enrolled at least half-time to be eligible to receive a loan and must complete an entrance interview before receiving student loan funds. Loan amounts vary depending on the student's grade level and other financial aid the student may be receiving. The student does not have to begin repayment on the loan for six months after they have either graduated or dropped below half-time enrollment.

Unsubsidized

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

Oklahoma Tuition Aid Grant (OTAG)

The Oklahoma State Regents for Higher Education sponsor the Oklahoma Tuition Aid Grant Program. This grant program is based on a student's financial need. The student must be a resident of the state of Oklahoma and be enrolled at least half-time to be eligible. The asking student uses the Free Application for Federal Student Aid to apply for this grant, and traditionally, the application data must be received by the federal government by April 30 to be considered for available funds.

SCHOLARSHIPS, AWARDS, AND HONORS

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

Scholarships awarded through the University Foundation are identified with an **(F)** following the description. Information and applications for Foundation scholarships may be obtained from the Office of Institutional Advancement (Administration Building, Room 201).

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 24 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRESHMAN SCHOLARSHIP: This scholarship is available to qualifying Oklahoma residents who are first-time freshman. A student must apply for this scholarship using the "Freshman Scholarship Application" in the Freshman Application Packet or by requesting one from the Office of Student Financial Services. The completed application should be submitted to

the Office of Student Financial Services and must be postmarked no later than March 1. A variety of awards with different values are selected from this scholarship applicant pool.

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

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

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

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

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

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)**

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

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

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

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

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

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

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

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

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

MILLIE ALEXANDER THOMAS MEMORIAL SCHOLARSHIP FUND: A fund established by Goldie Alexander

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

WARREN A. WILSON MEMORIAL SCHOLARSHIP: The fund was established in memory of Dr. Warren Wilson to recognize his outstanding contributions as an educator and former Director of Financial Aid at SWOSU. The fund provides scholarship assistance for students with a rural

Oklahoma background who could not attend SWOSU without financial assistance. (F)

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

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

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

COLLEGE OF ARTS AND SCIENCES

ART

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 sciences faculty select the outstanding senior Biological Sciences major each year to receive this award.

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

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

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

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

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

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).

CRONIN SCHOLARSHIP: Two or more annual scholarships of \$250/semester are awarded to sophomore, junior, and senior Chemistry majors selected by a faculty committee from qualified students making application. **(F)**

DAN DILL INORGANIC CHEMISTRY AWARD: Presented to the outstanding student in Inorganic Chemistry as selected by the course instructor. The award includes a check for \$25 and a framed certificate.

DONALD V. HERTZLER SCHOLARSHIP: Presented annually to an outstanding high school student agreeing to matriculate to SWOSU as a Chemistry major. The award covers tuition and fees for one year.

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

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

G. E. CASTLEBERRY SCHOLARSHIP: Presented to one or more outstanding freshman Chemistry majors who will be enrolling in Organic Chemistry I (majors) in the fall. This

award is \$250/semester for up to six semesters. Selections are based on standardized exam results. (F)

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

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

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

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

OUTSTANDING ORGANIC CHEMISTRY STUDENT: Presented to the Organic Chemistry Student making the highest score on a standardized exam. The award includes a check for \$25 and a framed certificate.

STUART BURCHETT ANALYTICAL CHEMISTRY AWARD: Presented to the outstanding student in Analytical Chemistry who has completed Quantitative 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.

Physics

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

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

J. R. PRATT PHYSICS SCHOLARSHIP: A fund established by alumni, faculty, and faculty emeriti to provide financial assistance for students pursuing a major in Physics.

The fund was established in memory of J. R. Pratt, a former chair of the physics department. (F)

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.

COMMUNICATION AND THEATRE

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

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.

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

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

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)

LANGUAGE AND LITERATURE

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.

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

LEROY THOMAS MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding English major. This scholarship honors a former Language 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)**

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

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 2.75 GPA, complete at least 12 hours toward their degree each semester, and participate in a Department of Music performance ensemble.

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

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

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

BARLOW DISTINGUISHED STUDENT IN CRIMINAL JUSTICE AWARD: This award is given each year to a criminal justice student who has distinguished herself/himself in the classroom as well as in other areas of academic life.

ECONOMICS SCHOLARSHIP: This scholarship is presented annually to an undergraduate economics minor with the highest academic achievement in economics.

HOLLEY DISTINGUISHED UPPER CLASS MAJOR IN CRIMINAL JUSTICE: This award is given each year to a junior or senior majoring in criminal justice who has

distinguished herself/himself in the classroom as well as in other areas of academic life.

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

POLITICAL SCIENCE SCHOLARSHIP: Several awards given to Political Science students in order to supplement books and/or tuition.

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

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

COLLEGE OF PHARMACY

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

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

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

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

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

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.

CVS PHARMACY SCHOLARSHIPS: Provided by CVS Pharmacy.

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

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

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

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

EDGEMAN FAMILY SCHOLARSHIP: Established by Sabrina and Nelson Edgeman, 2004 graduates of the College of Pharmacy, this scholarship is presented to a student for assistance during their professional practice rotation.

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

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

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

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.

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

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

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

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

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

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

PERKEY FAMILY SCHOLARSHIP: Established by Sally Perkey & Haley Perkey Meadors, graduates of the College of Pharmacy.

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

PHARMCARE OK SCHOLARSHIP: Provided by Pharmcare OK.

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

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

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

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:

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.

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

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

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)**

Health Care Administration

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

Health Information Management

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

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.

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

Health Sciences

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

Medical Technology

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.

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.

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.

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

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

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

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

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

KRISTI ROZELL MEMORIAL SCHOLARSHIP: A scholarship program established in 1989 to honor the memory of Kristi Rozell. The fund was established by Kristi's classmates, friends, and family to provide scholarship assistance for Teacher Education students at SWOSU. The applicant must be a female Special Education major. **(F)**

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

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

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

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

Kinesiology Athletics

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

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

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

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

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

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

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

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

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

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

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

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

TERRY GROCE MEMORIAL SCHOLARSHIP: This scholarship program was established in memory of Terry Groce, a former member of the SWOSU Rodeo Team and former professional bull rider. The program will provide scholarship assistance for members of the rodeo team. **(F)**

Psychology

HAROLD BUDDE AWARD: An award granted to a graduate student for outstanding academic achievement in Psychology. Recipients are selected by a faculty committee.

JERRY & SYLVIA 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 AWARD: 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 AND TECHNOLOGY

Business

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

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

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

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

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

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

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

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

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

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

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

Computer Science and Information Systems

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

Industrial and Engineering 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 Industrial and Engineering 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 Industrial and Engineering 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 Industrial and Engineering 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

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 (>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 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: A 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.

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

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 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 given to a Nursing student completing his/her

junior year in the professional component of the SWOSU Nursing program.

CHARLENE BACK 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 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)**

UNDERGRADUATE ADMISSIONS

GENERAL ADMISSION REQUIREMENTS

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

- graduate of an accredited high school.
- meets or exceeds minimum ACT score of 20 or SAT score of 940; or has a high school cumulative grade point average of at least 2.7 (based on 4.0 scale) and is ranked in top 50% of the high school graduating class; or has a 2.7 GPA in the 15-unit core curriculum.
- meets the minimum high school curricular requirements:
 - 4 years of English (grammar, composition, literature)
 - 3 years of mathematics (Algebra I, Algebra II, Geometry, Trigonometry, Math Analysis, Calculus)
 - 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:

Mathematics Below 75 0123 Basic Algebra

English Below 75 0123 Fundamentals of English

Reading 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 area 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.
- 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. Details are available through the Dean of Students.

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 advisors to assist in the development of their programs of study so that there will be a proper balance between required and elected courses.

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

ACADEMIC FORGIVENESS PROVISIONS

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

AMERICANS WITH DISABILITIES ACT

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 New Student Orientation enrollment session. Other students are assigned faculty advisors during the admissions process. Information regarding the advisement process is available in the Dean of Students' Office.

ARTICULATION POLICY

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

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

ATTENDANCE

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

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

CLASSIFICATION

Freshman:	A student with 0 to 29 semester hours of college credit.
Sophomore:	With 30 to 59 semester hours.
Junior:	With 60 to 89 semester hours.
Senior:	With 90 or more semester hours.
Post Graduate:	A student with a bachelor's degree who is not currently pursuing advanced degrees.
Graduate:	A student with a bachelor's degree who is enrolled for graduate credit.
Exception:	The classifications do not necessarily apply to students in the 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 correspondence work. In general, the residence work must include at least 15 of the final 30 credit hours that apply toward the degree or at least 50 percent of the hours required in the major field.
- A maximum of 60 semester credit hours taken at an accredited two-year institution, including the SWOSU at Sayre campus, may be applied toward the completion of a bachelor's degree at SWOSU.
- Ordinarily, a student is expected to meet the degree provisions of the catalog course requirements in effect when the student enters the University. Revised degree requirements, unless specifically provided otherwise, are applicable only to those students entering the University after the revisions are adopted. However, when a long period of time has elapsed since a student began a program, the student may be required to meet current requirements.
- When the same course is required in the major and minor, another course of the same level or higher must be taken in order for the total hours to equal the graduation requirements.

- A student may receive a second bachelor's degree (differing from the first) upon the completion of a minimum of 150 semester hours, provided all the requirements for the degree are met.

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

ENGLISH PROFICIENCY PROGRAM

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

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

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

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

ENROLLMENT

Southwestern Oklahoma State University uses an online computerized enrollment system, making pre-enrollment both quick and efficient. Complete enrollment information can be found in the current *Class Schedule*. Schedules are available on the SWOSU website at www.swosu.edu. (Beginning freshman with no college hours earned are required to attend a New Student Orientation session in order to enroll for the fall semester.)

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 Associate Provost

for Academic and Student Affairs one week before the first day of final examinations. In case of conflicts between single sections and multi-sections, the single section takes precedence for the student's time.

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

FULL-TIME STUDENTS

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 unofficial transcripts, grades, billing information, financial aid information, personal demographic information, and course availability information.

GRADES

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

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

Grade Points: Students earn grade points on this schedule:

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

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

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

Withdrawal: Students may withdraw within the first 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.

December graduates may now walk through the graduation ceremony early. For example, if a student is scheduled to graduate in December 2007, s/he may (1) walk through the ceremony in May 2007 (before graduating) or (2) walk through the ceremony in May 2008 (after graduating).

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

Summa Cum Laude	3.90
Magna Cum Laude	3.75
Cum Laude	3.50

Honors standing is determined by calculating the grade point average 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.

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 databases, 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 advisor, 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 advisor and the Provost or the Associate Provost for Academic and Student 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 Associate Provost for Academic and Student Affairs.

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

GENERAL EDUCATION

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

COMM 1313 Introduction to Public Speaking

LIT 2413 Introduction to Literature

MUSIC 1013 Introduction to Music I

PHILO 1453 Introduction to Philosophy

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

KINES 1133 Wellness Concepts & Exercise
Applications

COLLEGE OF ARTS AND SCIENCES

Dr. Radwan Al-Jarrah, Dean

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

The College of Arts and Sciences offers a wide variety of professional and general education programs that also underpins and reinforces all the other programs of the University. The college's eight departments: *Art, Biological Sciences, Chemistry and Physics, Communication and Theatre, Language and Literature, Mathematics, Music, Social Sciences*, and the *Interdisciplinary Studies*, 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 are essential components of the college experience.

Graduates from the programs in the College of Arts and Sciences are provided the preparation required for careers, professional schools, or post-baccalaureate education in their major areas of study. Central to this preparation is their development as lifelong learners with the communication and analytical skills necessary to function in our technical and diverse society. They are also provided with a curriculum, which fosters understanding and appreciation of multi-cultural diversity, fine arts and humanities, 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 also to be knowledgeable and participating members of the local, state, national, and global community.

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

Degrees Offered

DEPARTMENT OF ART

Bachelor of Fine Arts

Graphic Design

2-D Studio Art

3-D Studio Art

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)

DEPARTMENT OF COMMUNICATION AND THEATRE

Bachelor of Arts

Communication Arts (Mass Comm. Emphasis)

Communication Arts (Speech Comm. Emphasis)

Communication Arts (Theatre Emphasis)

INTERDISCIPLINARY STUDIES DEGREE PROGRAM

Bachelor of Arts

DEPARTMENT OF LANGUAGE AND LITERATURE

Bachelor of Arts

English (Writing Emphasis)

English (Literature Emphasis)

Spanish

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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T. Parker ART 324.....todd.parker@swosu.edu(580) 774-3032

DEPARTMENTAL GOALS

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

PROGRAMS OF STUDY

Majors: B.A.Ed. Art Education
B.F.A. in Graphic Design
B.F.A. in 2-D Studio Art
B.F.A. in 3-D Studio Art

Minors: Art
Art History
Graphic Design

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

GENERAL INFORMATION

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

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

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

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

BACHELOR OF FINE ARTS

GRAPHIC DESIGN

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS.....43 - 44

Composition6

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 Applications2

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 Arts6

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 Studies6

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

KINES 1133 Wellness Concepts & Exercise Applications

Graphic Design Option

Code No. 102

Required Art & Design courses..... 19

(These courses required of all BFA option areas)

ART 1123 Foundations I

ART 1133 Foundations II

ART 1143 Foundations III

ART 2133 Introduction to Graphic Design

ART 3483 Printmaking Studio*

ART 3783 Photographic/Digital Illustration*

ART 4651 Senior Exhibit

Approved Graphic Design courses..... 24

(BFA Graphic Design students must take all graphic design courses, instead of selecting from electives)

ART 2143 History & Theory of Graphic Design

ART 3513 Media for Artists

ART 3683 Illustration Studio*

ART 3853 Typographic Design*

ART 3883 Advertising Design*

ART 3923 Publication Design*

ART 3953 ProfPractice for Designers & Illustrators*

ART 4163 Portfolio

ART 4413 Package Design*

Approved Elective Studio Art courses..... 15

(A minimum of two studio art areas below must be taken)

DRAWING AREA

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..... 12

(BFA Graphic Design students must take 12 hours in Art History, instead of the 9 required in the BA degree)

ART 3013 American Art History

ART 3613 History of Art I

ART 3653 History of Art II

ART 4353 Modern Art History

ART 4383 Art History Since 1945

ART 4393 Non-Western Art Survey

Total..... 70

*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. + 70 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 (15 of the last 30) 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
1113 English Comp I 3	1213 English Comp II 3	2133 Intro Graphic Design 3	Gen Educ Crses 7
1123 Foundations I 3	2143 Hist of Graphic Design 3	Gen Educ Crses 3	Photo/Digital 3
Gen Educ Crses 9	Gen Educ Crses 3	Studio Elective 3	Studio Elective 3
		Typographic Design 3	
Total: 16	Total: 12	Total: 15	Total: 16

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

* First time entering Freshmen need to take 1001 Freshman Orientation

BACHELOR OF FINE ARTS

TWO-DIMENSIONAL STUDIO

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS43 - 44

Composition6

ENGL 1113 **English Composition I**

ENGL 1213 **English Composition II**

Mathematics3

MATH 1143 Math Concepts

MATH 1513 College Algebra OR
higher numbered math course

Computer Applications2

COMSC 1022 **Computer & Information Access**

Natural Sciences8

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 Arts6

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 & Government6

POLSC 1103 **American Government & Politics**

HIST 1063 **U.S. History**

Economic & International Studies6

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

KINES 1133 Wellness Concepts & Exercise Applications

Two-Dimensional Studio

Code No. 108

Required Art courses 19

(These courses required of all BFA option areas)

ART 1123 Foundations I

ART 1133 Foundations II

ART 1143 Foundations III

ART 2133 Introduction to Graphic Design

ART 3483 Printmaking Studio*

ART 3783 Photographic/Digital Illustration*

ART 4651 Senior Exhibit

Required Two-Dimensional Studio courses 21

ART 2113 Acrylic Techniques

ART 3113 Watercolor Studio*

ART 3153 Figure Drawing*

ART 3683 Illustration Studio*

ART 3753 Life Drawing*

ART 4313 Painting Studio*

ART 4333 Studio Drawing*

Approved Elective Studio Art courses 15

(A minimum of two studio art areas below must be taken)

TWO-DIMENSIONAL AREA

(In addition to required Two-Dimensional Studio courses)

ART 2113 Acrylic Techniques

ART 3113 Watercolor Studio*

ART 3153 Figure Drawing*

ART 3483 Printmaking

ART 3753 Life Drawing*

ART 4313 Painting Studio*

GRAPHIC DESIGN AREA

ART 2143 History & Theory of Graphic Design

ART 3683 Illustration Studio*

THREE DIMENSIONAL AREA

ART 3353 Clay Studio*

ART 3413 Sculpture Studio*

ART 4253 Applied Design

Art History 12

ART 3013 American Art History

ART 3613 History of Art I

ART 3653 History of Art II

ART 4353 Modern Art History

ART 4383 Art History Since 1945

ART 4393 Non-Western Art Survey

Total 67

*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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

TWO-DIMENSIONAL STUDIO (CODE 108)

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	3000/4000 Level Drawing 3
1113 English Comp I 3	1213 English Comp II 3	2133 Intro Graphic Design 3	Art History (as offered) 3
1123 Foundations I 3	2143 Hist of Graphic Design 3	Acrylic Techniques OR	Gen Educ Crse 4
Gen Educ Crses 9	Gen Educ Crses 3	Watercolor Studio (as offered) .. 3	Photo/Digital 3
		Gen Educ Crse 3	Studio Elective 3
		Studio Elective 3	
Total: 16	Total: 12	Total: 15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3000/4000 Level Drawing 3	3000/4000 Level Drawing 3	3000/4000 Level Painting 3	3000/4000 Level Painting 3
3483 Printmaking Studio 3	Art History (as offered) 3	Gen Educ Crses 9	4651 Senior Exhibit 1
Art History (as offered) 3	Gen Educ Crses 6	Studio Elective 3	Free Electives 9
Gen Educ Crses 4	Studio Elective 3		Painting Studio (as offered) 3
Studio Elective 3			
Total: 16	Total: 15	Total: 15	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation

BACHELOR OF FINE ARTS

THREE-DIMENSIONAL STUDIO

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS43 - 44

Composition6

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

Mathematics3

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

Computer Applications2

COMSC 1022 **Computer & Information Access**

Natural Sciences8

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 Arts6

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 & Government6

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

Economic & International Studies6

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
KINES 1133 Wellness Concepts & Exercise Applications

Three-Dimensional Studio Code No. 111

Required Art courses 19

(These courses required of all BFA option areas)

ART 1123 Foundations I
ART 1133 Foundations II
ART 1143 Foundations III
ART 2133 Introduction to Graphic Design
ART 3483 Printmaking Studio*
ART 3783 Photographic/Digital Illustration*
ART 4651 Senior Exhibit

Required Three-Dimensional Studio courses 21

ART 3413 Sculpture Studio (Sculpture 1)
ART 3413 Sculpture Studio (Sculpture 2)
ART 3413 Sculpture Studio (Sculpture 3)
ART 3353 Clay Studio (Clay 1)
ART 3353 Clay Studio (Clay 2)
ART 3353 Clay Studio (Clay 3)
ART 4253 Applied Design

Approved Elective Studio Art courses 15

(A minimum of two studio art areas below must be taken)

DRAWING AREA

ART 3153 Figure Drawing*
ART 3753 Life Drawing*
ART 4333 Studio Drawing*

GRAPHIC DESIGN AREA

ART 2143 History & Theory of Graphic Design
ART 3683 Illustration Studio*

PAINTING AREA

ART 2113 Acrylic Techniques
ART 3113 Watercolor Studio*
ART 4313 Painting Studio*

Art History 12

ART 3013 American Art History
ART 3613 History of Art I
ART 3653 History of Art II
ART 4353 Modern Art History
ART 4383 Art History Since 1945
ART 4393 Non-Western Art Survey

Total 67

*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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

THREE-DIMENSIONAL STUDIO (CODE 111)

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
1113 English Comp I 3	1213 English Comp II 3	2133 Intro Graphic Design 3	Clay Studio 1 3
1123 Foundations I 3	Gen Educ Crses 3	Gen Educ Crse 3	Gen Educ Crse 4
Gen Educ Crses 9	Upper Level Art Elective 3	Sculpture 1 3	Photo/Digital 3
		Studio Elective 3	Studio Elective 3
Total: 16	Total: 12	Total: 15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3483 Printmaking Studio 3	Art History (as offered) 3	Gen Educ Crses 9	4651 Senior Exhibit 1
Art History (as offered) 3	Clay Studio 2 3	Sculpture 3 3	Applied Design 3
Gen Educ Crses 4	Gen Educ Crses 6	Studio Elective 3	Clay Studio 3 3
Sculpture 2 3	Studio Elective 3		Free Electives 9
Studio 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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M. Ubeidat	SCI 213.....	muatasem.ubeidat@swosu.edu	(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.

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.)

GENERAL INFORMATION

(Programs and Advisors)

Biological Sciences

All faculty advise Biology majors

Pre- Medicine

M. Ubeidat – Years 1 and 2
 W. S. Ball – Years 3 and 4

Pre-Physical Therapy, Pre-Occupational Therapy

W. S. Ball

Pre-Dentistry, Pre-Dental Hygiene

J. D. Maness

Pre-Veterinary Medicine

J. Aracena

Pre-Optometry

S. W. O'Neal

Pre-Physician Associate, Pre-Radiologic Technology, Pre-Communication Sciences Disorders, Pre-Nutritional Sciences

W.S. Ball

Marine/Aquatic Biology

S.W. O'Neal

Natural Science Education

R.W. Seibert
 L. L. Boggs

Genetics, Molecular Biology, Biotechnology

M. Ubeidat

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

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
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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 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
KINES	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

OR PSYCH 2433 Psychological Statistics

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 (15 of the last 30)..... 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 Lect3
1113 English Comp I..... 3	1613 College Trig..... 3	1252 Gen Chem I Lab 2	1332 Gen Chem II Lab2
1513 College Algebra..... 3	2022 BioOrientation 2	3413 Statistical Methods I..... 3	Gen Educ Crses6
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 Seminar1
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 Courses9
Major Elective 3		Gen Educ Crse..... 3	Gen Educ Crse3
Total: 15	Total: 15	Total: 15	Total:15

* First time entering Freshmen need to take 1001 Freshman Orientation

** Offered Spring of odd years only

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 Lect3
1113 English Comp I..... 3	1613 College Trig..... 3	1252 Gen Chem I Lab 2	1332 Gen Chem II Lab2
1513 College Algebra..... 3	2022 BioOrientation 2	3413 Statistical Methods I..... 3	Gen Educ Crses6
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 Seminar1
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 Crse3
3111 Organic Chem Lab..... 1	4021 Organic Chem II Lab 1	Free Elective..... 5	Free Elective6
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

William Kelly, Chair
Chemistry, Pharmacy, Physics Building, Room CPP 202
Phone: (580) 774-3202
Email: william.kelly@swosu.edu
<http://www.swosu.edu/chemphys/>

CHEMISTRY

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D Esjornson	CPP 205 C	david.esjornson@swosu.edu	(580) 774-7143
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T. Hubin	CPP 201 C	tim.hubin@swosu.edu	(580) 774-3026
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C. Rogers	CPP 101 D	charles.rogers@swosu.edu	(580) 774-3108
T. Stein	CPP 101 B	tony.stein@swosu.edu	(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

Majors:	B.S. Chemistry (Professional) B.S. Chemistry B.A. Chemistry <ul style="list-style-type: none"> • Biochemistry specialization • Environmental chemistry specialization
Minor:	Chemistry
Pre-Professional:	Pre-Medicine Pre-Optometry Pre-Dental Pre-Veterinary Medicine

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

PHYSICS PROGRAMS OF STUDY

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

Minors: Physics
Physical Science

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

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

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

CHEMISTRY GENERAL INFORMATION

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

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

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

The Donald V. Hertzler Scholarship covering tuition and fees for one year is awarded annually by the department to an outstanding high school student matriculating to SWOSU as a Chemistry major. Information about applying can be

obtained from the department chair. A number of other scholarships are available for Chemistry majors. These are described in the introduction to this catalog.

PHYSICS GENERAL INFORMATION

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

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

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

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

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

Students are encouraged to gain experience through work in the department as laboratory assistants and tutors. Application for such employment can be made in the department office. Career counseling is also available to physics students in the department.

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

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

professionally and socially. The local student organization is the Physics and Engineering Club. Both local and national memberships are strongly encouraged.

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

For more information, visit our web site at:

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

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

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

BACHELOR OF ARTS CHEMISTRY

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**

Mathematics3

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 & Government6

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
KINES 1133 Wellness Concepts & Exercise
Applications

Chemistry Major (B.A.)

Code No. 104

Required Courses.....23-25

CHEM 1203 General Chemistry I
CHEM 1252 General Chemistry I Lab
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
CHEM 3013 Organic Chemistry I
AND
CHEM 3111 Organic Chemistry I Lab
OR
CHEM 3015 Organic Chemistry I
CHEM 3124 Quantitative Analysis
CHEM 4113 Organic Chemistry II
AND
CHEM 4021 Organic Chemistry II Lab
OR
CHEM 4115 Organic Chemistry II
CHEM 4901 Senior Seminar in Chemistry

Electives and Advanced Chemistry12-14

Choose courses from the following list to give a total of at least 37 hours of chemistry course:s

CHEM 3234 Inorganic Chemistry
CHEM 3244 Environmental Chemistry
CHEM 3343 General Physical Chemistry
CHEM 4001-4 Chemistry Research
CHEM 4011-4 Seminar in Chem Spec Topics
CHEM 4124 Biochemistry
CHEM 4234 Instrumental Analysis
CHEM 4254 Industrial Chem. and Environ Regs
CHEM 4554 Advanced Organic Spectroscopy
CHEM 4673 Advanced Metabolism

Rather than completing the general program described above, majors may elect to fulfill the requirements for the Biochemistry Emphasis or the Environmental Chemistry Emphasis.

Biochemistry Emphasis

Core Curriculum.....23-25

Required 7

CHEM 4124 Biochemistry
CHEM 4673 Advanced Metabolism

Electives5-7

One or more courses chosen from the following list to give a total of at least 37 hours:

CHEM 3234 Inorganic Chemistry
CHEM 3244 Environmental Chemistry
CHEM 3343 General Physical Chemistry
CHEM 4001-4 Independent Research in Biochem or related area
CHEM 4011-4 Seminar: Adv Topics in Biochem
CHEM 4234 Instrumental Analysis
CHEM 4554 Advanced Organic Spectroscopy
BIOL 3254 Genetics
BIOL 4964 Molecular Biology
ALHLT 4213 Immunology
ALHLT 4355 Microbiology

CONTINUED ON NEXT PAGE

Environmental Chemistry Emphasis

Core Curriculum 23-25

Required 8

CHEM 3244 Environmental Chemistry
CHEM 4254 Industrial Chem and Environ Regs

Electives 4-6

One or more courses chosen from the following list to give a total of at least 37 hours:

GEOG 4083 Environmental Studies
MNGMT 3623 Risk Management
CHEM 3234 Inorganic Chemistry
CHEM 3343 General Physical Chemistry
CHEM 4001-4 Chemistry Research
CHEM 4011-4 Seminar in Chem Spec Topics
CHEM 4124 Biochemistry
CHEM 4234 Instrumental Analysis
CHEM 4554 Advanced Organic Spectroscopy
CHEM 4673 Advanced Metabolism

Secondary Requirements

*MATH Higher numbered math course beyond
MATH 1513

PHY 1044 Basic Physics I
OR

PHY 1064 General Physics
AND

PHY 1054 Basic Physics II
Life Sciences (7 hours beyond GE requirement)

* MATH 3433 Statistics I is required for students choosing the Environmental Chemistry Emphasis.

Electives to bring total to 120

Recommended Minors: Art, Biology, Computer Science, Electronics, 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

Mathematics3

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 & Government6

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
KINES 1133 Wellness Concepts & Exercise
Applications

Chemistry Major (B.S.)

Code No. 105

Required Courses35-37

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

MATH 1613 College Trigonometry
MATH 1834 Calculus I
MATH 2834 Calculus II
MATH 3834 Calculus III
PHY Physics (2145, 2155 preferred)

Electives to bring total to 120

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120

Minimum credit hours in the liberal arts & sciences 55

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

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

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

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

Minimum Grade Point Average in minor 2.00

CHEMISTRY (B.A.) (CODE 104)
Suggested Course Sequence for General Degree Program

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1044 Basic Physics I4	1054 Basic Physics II4
1022 Comp & Info Access 2	1303 Gen Chem II 3	3015 Organic Chemistry I5	4015 Org Chem II5
1113 English Comp I 3	1352 Chem II Lab 2	1004 Biol Concepts4	Gen Educ Crses6
1203 Gen Chem I 3	Gen Educ Course 3	Gen Educ Course3	
1252 Chem I Lab 2	Math Elective 3		
1513 College Algebra 3			
Total: 14	Total: 14	Total:16	Total:15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis 4	Chemistry Elective 4	4901 Sen Sem in Chem1	Chemistry Elective4
Life Science Elective 4	Life Science Elective 4	Chemistry Elective4	Minor Electives8
Gen Educ Course 3	Gen Educ Course 3	Gen Educ Courses6	Free Electives4
Minor Elective 4	Minor Elective 4	Minor Elective4	
Total: 15	Total:15	Total:15	Total:16

* First time entering Freshmen need to take 1001 Freshman Orientation

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

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1044 Basic Physics I4	1054 Basic Physics II4
1022 Comp & Info Access 2	1303 Gen Chem II 3	1054 Prin of Biology4	4015 Org Chem II5
1113 English Comp I 3	1352 Chem II Lab 2	3015 Organic Chemistry I5	Gen Educ Crses6
1203 Gen Chem I 3	Gen Educ Course 3	Gen Educ Course3	
1252 Chem I Lab 2	Math Elective 3		
1513 College Algebra 3			
Total: 14	Total: 14	Total:16	Total:15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis 4	4673 Adv Metabolism	4901 Sen Sem in Chem1	4673 Adv Metabolism
4124 Biochemistry 4	OR Biochem Elective 3-4	Gen Educ Courses6	OR Biochem Elective 3-4
Gen Educ Course 3	Biochem Elective 4	Minor Electives8	Free Electives9
Minor Elective 4	Gen Educ Course 3		Minor Elective4
	Minor Elective 4		
Total: 15	Total:14-15	Total:15	Total: 16-17

* First time entering Freshmen need to take 1001 Freshman Orientation

CHEMISTRY (B.A.) (CODE 104)

Suggested Course Sequence for Environmental Chemistry Emphasis

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1213 English Comp II.....3	1004 Biol Concepts I.....4	1054 Basic Physics II.....4
1022 Comp & Info Access.....2	1303 Gen Chem II.....3	1044 Basic Physics I.....4	4015 Org Chem II.....5
1113 English Comp I.....3	1352 Chem II Lab.....2	3015 Organic Chemistry I.....5	Gen Educ Courses.....6
1203 Gen Chem I.....3	3433 Statistics I.....3	Gen Educ Course.....3	
1252 Chem I Lab.....2	Gen Educ Course.....3		
1513 College Algebra.....3			
Total:.....14	Total:.....14	Total:.....16	Total:.....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis.....4	3244 Environ Chem OR	4901 Sen Sem in Chem.....1	3244 Environ Chem OR
Gen Educ Course.....3	4254 Ind Chem & Env Regs4	Environ Chem Elective.....4	4254 Ind Chem & Env Regs4
Life Sci Elective.....4	Gen Educ Course.....3	Gen Educ Courses.....6	Free Electives.....4
Minor Elective.....4	Life Sci Elective.....4	Minor Elective.....4	Minor Electives.....8
	Minor Elective.....4		
Total:.....15	Total:.....15	Total:.....15	Total:.....16

* First time entering Freshmen need to take 1001 Freshman Orientation

CHEMISTRY (B.S.) (CODE 105)

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	2145 Gen Physics I.....5
1022 Comp & Info Access.....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
1203 Gen Chem I.....3	1834 Calculus I.....4	Gen Educ Crse.....3	
1252 Chem I Lab.....2	Gen Educ Crses.....3		
1613 College Trigonometry.....3			
Total:.....14	Total:.....15	Total:.....16	Total:.....14

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2155 Gen Physics II.....5	4234 Instru Analysis.....4	4001 Research.....1	4234 Instu Analysis.....4
4344 Physical Chemistry I.....4	OR Chemistry Elective	4344 Physical Chemistry I.....4	OR Chemistry Elective
OR Elective	Chemistry Elective.....4	OR Elective	Free Elective.....3
Gen Educ Crses.....6	Free Elective.....3	4901 Senior Sem in Chem.....1	Gen Educ Crses.....6
	Gen Educ Crses.....4	Free Elective.....3	Research.....1
		Gen 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
KINES 1133 Wellness Concepts & Exercise
Applications

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

Required Courses47 - 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

Secondary Requirements

MATH 1613 College Trigonometry
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 & sciences55

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

Minimum credit hours (3000/4000 courses)

in major completed at SWOSU8

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

Minimum Grade Point Average in all coursework2.00

Minimum Grade Point Average in major.2.00

Minimum Grade Point Average in minor2.00

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
KINES 1133 Wellness Concepts & Exercise Appl

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

Engineering Physics Major Code No. 153

Required Courses 47 - 48 hours

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

Seven hours selected from:

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

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

CHEMISTRY (B.S. PROFESSIONAL) (CODE 106)
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	2145 Gen Physics I 5
1022 Comp & Info Access 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
1203 Gen Chem I 3	1834 Calculus I..... 4	Gen Educ Crses 3	
1252 Chem I Lab 2	Gen Educ Crses..... 3		
1613 College Trig..... 3			
Total: 14	Total:..... 15	Total: 16	Total: 14

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2155 Gen Physics II 5	4234 Instrum Analysis 4	4001 Research..... 1	4001 Research 1
4344 Physical Chemistry I..... 4	OR 3234 Inorg Chem	4434 Physical Chemistry I..... 4	4234 Instrum Analysis 4
OR 4124 Biochemistry	4454 Physical Chem II..... 4	OR 4124 Biochemistry	OR 3234 Inorg Chem
Gen Educ Crses 6	OR Chemistry Elective	4901 Senior Sem Chem 1	4454 Physical Chem II..... 4
	Gen Educ Crses..... 6	Free Elective 3	OR Chemistry Elective
		Gen Educ Crses 6	Gen Educ Crses 6
Total: 15	Total:..... 14	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

ENGINEERING PHYSICS (CODE 153)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	2155 Gen Physics II 5	2213 Strength of Materials 3
1022 Comp & Info Access 2	1303 Gen Chem II..... 3	2203 Rigid Body Mechanics.... 3	3403 Modern Physics 3
1113 English Comp I..... 3	1352 Chem II Lab 2	2834 Calculus II..... 4	3411 Mod Phys Lab..... 1
1203 Gen Chem I 3	1834 Calculus I..... 4	Gen Educ Courses..... 3	3834 Calculus III 4
1252 Chem I Lab 2	2145 Gen Physics I 5		Gen Educ Courses 3
1715 College Alg/Trig..... 5			
2021 Intro to Eng Physics..... 1			
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..... 3-4	3112 Expt Techniques 2-4	3424 Optics..... 3-4
OR 4644 Elec & Mag I	OR 3544 Digital Elec	OR 4644 Elec & Mag I	OR 3544 Digital Elec
4213 Diff Equations 3	OR 3413 Analog Electronics	4723 Quantum Mechanics 3	OR 3413 Analog Electronics
4723 Quantum Mechanics..... 3	3603 Mechanics 3	OR Physics Elective	3603 Mechanics..... 3
OR Physics Elective	OR 3563 Thermo	Physics Elective 3-4	OR 3563 Thermo
Gen Educ Courses 5-7	Engineering Graphics..... 2-3	Gen Educ Courses..... 3-6	4011 Physics Seminar..... 1
	Gen Educ Courses..... 4-5		Gen Educ Courses 6
Total: 15	Total:..... 14	Total: 14	Total: 14

* First time entering Freshmen need to take 1001 Freshman Orientation

DEPARTMENT OF COMMUNICATION AND THEATRE

COLLEGE OF ARTS AND SCIENCES

FACULTY

Robin Jones, Chair
Campbell Building, Room 126B
Phone: (580) 774-3080

E-mail: robin.jones@swosu.edu
<http://www.swosu.edu/commtheatre>

C. Carley	CAM 126 G	cindy.carley@swosu.edu	(580) 774-3247
J. Kendall	CAM 211 A	joel.kendall@swosu.edu	(580) 774-3083
L. Schroeder	CAM 126 E	lisa.schroeder@swosu.edu	(580) 774-3241
P. Shaffer	CAM 126C	paul.shaffer@swosu.edu	(580) 774-7046
S. Strickler	CAM 126 F	steve.strickler@swosu.edu	(580) 774-3082

DEPARTMENTAL GOALS

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.
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.
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

Minors: Communication Arts

GENERAL INFORMATION

The Department of Communication and Theatre offers numerous opportunities for students to practice their skills as speakers, actors, directors, designers, editors and writers.

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

Student organizations and activities supported by the department include Pi Kappa Delta, Alpha Psi Omega, the University Media Association, the Forensics Squad, and Midnight Theatre.

For more information, visit our web site at:

<http://www.swosu.edu/academics/commtheatre/index.asp>

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**

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

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
KINES 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 3543 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

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 & Theatre
minor in the Minor Programs of Study.

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

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120

Minimum credit hours in the liberal arts & sciences 80

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

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

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

Minimum Grade Point Average in all coursework 2.00

Minimum Grade of C in all major courses

**COMMUNICATION ARTS
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 Comm3	3761 Theatre Production 1
1113 English Comp I..... 3	2103 Intro to Mass Comm 3	2363 Acting I3	Minor 3
1263 Intro to Theatre 3	3761 Theatre Production 1	2763 Stagecraft3	Gen Educ Crses9
1313 Intro to Public Spkng... 3	Gen Educ Crses 8	Gen Educ Crses6	General Electives2
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	4473 Theatre History: 1660 to Present 3	3663 Script Analysis3	3761 Theatre Production 1
3761 Theatre Production 1	Comm Arts Elective 3	General Electives6	4483 Play Directing3
Gen Educ Crse..... 3	Gen Educ Crse..... 3	Minor3	Comm Arts Elective.....3
Minor..... 8	Minor..... 6	Tech Theatre Course3	General Electives8
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 Comm3	2123 Interpersonal Comm3
1113 English Comp I..... 3	1263 Intro to Theatre 3	2113 Writing for Mass Media.....3	2213 News Gathering & Reporting3
1313 Intro to Public Speak 3	Gen Educ Crses 9	Gen Educ Crses9	Gen Educ Crses.....6
Gen Educ Crses 8			Minor3
Total: 15	Total: 15	Total:15	Total:15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3113 News Editing3	3613 Specialized Pub..... 3	4243 Media Production3	4293 Media, Law & Ethics3
3413 Desktop Publishing..... 3	Comm Arts Elective 6	Comm Arts Elective3	General Electives9
Gen Educ Crses 3	Minor 6	General Electives.....6	Minor3
Minor 6		Minor.....3	
Total: 15	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

If you begin in the Fall of an **EVEN** numbered year

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spr odd)	FIRST SEMESTER (fall odd)	SECOND SEMESTER (spr even)
1001 Freshman Orient*1	1213 English Comp II3	2103 Intro to Mass Comm 3	1263 Intro to Theatre..... 3
1113 English Comp I.....3	2123 Interpersonal Comm.....3	Gen Educ Courses..... 12	3573 Intercultural Comm 3
1313 Intro to Public Spkng.....3	Gen Educ Courses.....9		Gen Educ Courses 6
Gen Educ Courses8			Minor Courses 3
Total:15	Total:..... 15	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER (fall even)	SECOND SEMESTER (spr odd)	FIRST SEMESTER (fall odd)	SECOND SEMESTER (spr even)
3543 Small Group Comm.....3	3553 Oral Interpretation.....3	3073 Persuasion 3	Comm Arts Electives4
3563 Argument & Debate.....3	4343 Communication Theory...3	4363 Organizational Comm 3	General Electives 8
General Electives.....3	Comm Arts Electives3	Comm Arts Electives 6	Minor Courses6
Minor Courses6	Minor Courses.....6	General Electives 3	
Total:15	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

If you begin in the Fall of an **ODD** numbered year

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (sp even)	FIRST SEMESTER (fall even)	SECOND SEMESTER (spr odd)
1001 Freshman Orient*1	1213 English Comp II3	2123 Interpersonal Comm..... 3	1263 Intro to Theatre..... 3
1113 English Comp I.....3	2103 Intro to Mass Comm.....3	Gen Educ Courses..... 12	3553 Oral Interpretation 3
1313 Intro to Public Spkng.....3	Gen Educ Courses.....9		Gen Educ Courses 6
Gen Educ Courses8			Minor Courses 3
Total:15	Total:..... 15	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER (fall odd)	SECOND SEMESTER (sp even)	FIRST SEMESTER (fall even)	SECOND SEMESTER (spr odd)
3073 Persuasion.....3	3573 Intercultural Comm3	3543 Small Group Comm 3	4343 Communication Theory..... 3
4363 Organizational Comm.....3	Comm Arts Electives6	3563 Argument & Debate 3	General Electives 6
General Electives.....3	Minor Courses.....6	Comm Arts Electives 3	Minor Courses6
Minor Courses6		General Electives 6	
Total:15	Total:..... 15	Total: 15	Total: 15

* 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
<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
KINES 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
American Indian Studies	Indust/Engineer Tech
Art	Information Systems
Biology	Kinesiology
Business	Math
Chemistry	Music
Communication Arts	Parks & Rec Mngmt
Computer Science	Physics
Criminal Justice	Political Science
Economics	Psychology
Education	Social Work
English	Spanish

Maximum Independent Study/Directed Reading courses are limited to a total of five credit hours 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
(15 of the last 30) 30
Minimum grade point average in all coursework..... 2.00

FOR INFORMATION CONTACT:

Dr. Radwan Al-Jarrah
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	ATEP 2433	ATR Care/Prev Ath Inj	ALHLT3093	Dietetics Health Illness
ALHLT2442	Medical Terminology	ATEP 2531	Dir Obs in AT	MEDRC3333	Coding I
ALHLT3193	Health Care Delivery	ATEP 2633	Cardiac and Emerg Care	MEDRC3333L	Coding I Lab
ALHLT3933	Mngmt Hlth Care Inst	ATEP 3723	Adv Athletic Training	MEDRC3343	Coding II
ALHLT3963	Health Care Adm	ATEP 3743	Athl Rehab & Reconditn	MEDRC3343L	Coding II Lab
ALHLT4093	Epidemiology	ATEP 4323	Ath Train Pharmacology	MEDRC3352	Intro Reimb/Class Syst
ALHLT4213	Immunology	ATEP 4344	Ath Trng Eval Orth Inj	MEDRC4023	Hlth Inf Application
ALHLT4355	Microbiology	ATEP 4433	Ath Train Modalities	MEDRC4023L	Hlth Inf Appl Lab
ALHLT4355L	Microbiology Lab	ATEP 4722	Adm Issues Ath Train	MEDRC4033	Health Inform Mngmt
ALHLT4404	Pathogenic Microbiology	MEDRC3023	Health Info Systems	MEDRC4033L	Health Infor Mngmt Lab
ALHLT4404L	Pathogenic Micro Lab	MEDRC3023L	Health Info Sys Lab	ALHLT4043	Medicolegal Concepts
ALHLT4453	Virology	MEDRC3033	Intro Hlth Information	ALHLT4074	Pathophysiology
ALHLT4523	Environ Microbiology	MEDRC3033L	Intro Hlth Inform Lab	MEDRC4112	Quality Improvement
ALHLT4523L	Environ Micro Lab	ALHLT3043	Health Statistics	ALHLT4313	Medical Parasitology
ALHLT4802	History of Medicine	ALHLT3043L	Health Statistics Lab	ALHLT4313L	Med Parasitology Lab
ALHLT4872	Hominology	ALHLT3053	Advanced Med Term		
ATEP 1922	Intro to Ath Training	ALHLT3072	Applied Medical Vocab		

AMERICAN INDIAN STUDIES

ACCTG1123	Intro to Accounting	AMIS 2403	Special Topics Am Ind I	HIST 4103	American Indians
ACCTG2213	Prin of Accounting I	AMIS 2413	Tribal Economics	HIST 4353	History of Oklahoma
AMIS 1001	Intro to Am Indian Studies	AMIS 2603	(Tribe) History	KINES1153	Nutrition
AMIS 1011-3	Sem in Am Indian Studies	AMIS 3004	(Tribe) Language II	KINES3393	Nutrition for Children
AMIS 2001-3	Ind Stdy in Am Ind Studies	AMIS 3403	Special Topic Am Ind II	KINES4013	Nat Am Wellness Conc
AMIS 2004	(Tribe) Language I	AMIS 4011-3	Seminar in Am Ind Studies	LIT 3513	Lit of the Am West
AMIS 2103	American Indians Today	AMIS 4333	Religion of the Am Indian	LIT 4593	Diversity in Am Lit
AMIS 2123	Tribal Gvt & Sovereignty	ART 2013	Art of the Am Indian	MUSIC 4013	Music in Native American
AMIS 2133	Lit of Am Ind	GEBUS1123	Introduction to Business		

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 Design	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

ACCTG1123	Introduction to Accounting	ACCTG3313	Intermediate Acctg I	ENTRP3113	Intro to MIS
ACCTG2213	Principles of Acctg I	ACCTG3523	Income Tax Acctg I	ENTRP3123	Legal Env of Business
ACCTG2313	Principles of Acctg II	ACCTG3713	Cost Accounting	ENTRP3423	Busin Communications
ACCTG3213	Acctg Info Systems	ENTRP1123	Introduction to Business	ENTRP3723	International Business

ENTRP3823	Quantitative Meth Bus	FINAN4513	Portfolio Management I	MRKTG3143	Principles of Marketing
ENTRP3923	Adv Comp Business App	MNGMT3233	Management	MRKTG3243	Promotional Strategy
ENTRP4013	Sem In Gen Bus	MNGMT3333	Human Resource Mngmt	MRKTG3263	Retail Management
ENTRP4123	Professional Issues	MNGMT3433	Administrative Theory	MRKTG3443	Market/Consumer Behv
FINAN3343	Business Finance	MNGMT3533	Organizational Behav	MRKTG4013	Seminar in Marketing
FINAN3353	Personal Financial Plan	MNGMT4123	Managerial Ethics	MRKTG4443	Channel of Distribution
FINAN3663	Investments	MNGMT4433	Entrepren/New Ventur	MRKTG4543	Industrial Mrktg
FINAN4013	Sem in Finance	MNGMT4633	International Mngmt	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 Chemistry	CHEM 4234	Instrum Analysis
CHEM 2012	Sem In Chemistry	CHEM 3244L	Environmental Chem Lab	CHEM 4234L	Instr Analysis Lab
CHEM 2013	Sem In Chemistry	CHEM 4011	Seminar in Chemistry	CHEM 4254	Ind Chem & Environ Reg
CHEM 2014	Sem In Chemistry	CHEM 4012	Seminar in Chemistry	CHEM 4344	Physical Chemistry I
CHEM 2114	Organic/Biochemistry	CHEM 4013	Seminar in Chemistry	CHEM 4344L	Physical Chem I Lab
CHEM 2114L	Organic/Biochem Lab	CHEM 4014	Seminar in Chemistry	CHEM 4454	Physical Chem II
CHEM 3013	Organic Chemistry I	CHEM 4021	Organic Chem II Lab	CHEM 4454L	Physical Chem II Lab
CHEM 3015	Organic Chemistry I	CHEM 4113	Organic Chemistry II	CHEM 4554	Adv Organic Spectroscopy
CHEM 3015L	Organic Chem I Lab	CHEM 4115	Organic Chemistry II	CHEM 4673	Metabolism
CHEM 3111	Organic Chem I Lab	CHEM 4115L	Organic Chem II Lab		

COMMUNICATION AND THEATRE

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

COMPUTER SCIENCE

COMSC1033	Computer Science I	COMSC3043	Systems Programming	COMSC3933	Multimedia Systems
COMSC1053	Computer Science II	COMSC3053	Operating Systems	COMSC4001-4	Ind Study Comp Sci
COMSC1103	Intro to Info Security	COMSC3133	Software Engineering	COMSC4011-4	Computer Science Sem
COMSC1433	Visual Basic Programming	COMSC3153	Data Comm & Network	COMSC4033	Principles of Prog Lang
COMSC2043	Discrete Structures	COMSC3353	Systems Analy & Design	COMSC4053	O-O Software Engineer
COMSC2413	Data Structures	COMSC3403	Database Systems	COMSC4453	Adv Database Systems
COMSC2463	Program in C# and .NET	COMSC3513	IS Project Management	COMSC4513	Dec Supp & Exp Sys
COMSC2473	Programming in C++	COMSC3603	Hardware/Softwre Concepts	COMSC4921-3	Computer Sci Internship
COMSC3013	Computer Architecture	COMSC3913	Web Development	COMSC4953	CS/IS Capstone I

CRIMINAL JUSTICE

CRMJS1113	Intro Criminal Justice	CRMJS3243	Comp Crim Justice System	CRMJS4143	Crit Issues Criminal Just
CRMJS1223	Intro to Law Enforcement	CRMJS3353	The Criminal Mind	CRMJS4153	U.S. Corrections
CRMJS2503	Criminal Justice Admin	CRMJS3803	Privat of Criminal Justice	CRMJS4333	Victimology
CRMJS3163	Socio Devnt & Crim Beh	CRMJS4103	Juvenile Justice		

ECONOMICS

ECONO2263	Intro to Macroeconomics	ECONO3863	Money and Banking	ECONO4563	Managerial Economics
ECONO2363	Intro to Microeconomics	ECONO4003	Independent Study in Econo	ECONO4963	International Economics
ECONO2463	Business Statistics	ECONO4013	Seminar in Economics		

EDUCATION

Completing the appropriate listed courses cannot be construed as qualifying the individual to be certified as a teacher nor to being admitted to the teacher education program.

ART 4452	CM&M Elem School Art	KINES 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 th 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		

HISTORY

HIST 2603	Writing History	HIST 3603	20 th Century World History	HIST 4093	Historical Resrch/Writ
HIST 3033	Historians/Middle Ages	HIST 4001	Ind Study History	HIST 4103	American Indians
HIST 3043	Early Modern Europe	HIST 4011	Seminar in History	HIST 4123	America in the 1960's
HIST 3063	Modern Ireland	HIST 4012	Seminar in History	HIST 4133	Women in American Hist
HIST 3083	Nationalism/Ethnicity	HIST 4013	Seminar in History	HIST 4203	Old South
HIST 3103	Medieval England	HIST 4014	Seminar in History	HIST 4213	New South
HIST 3113	Elizabeth I	HIST 4023	Colonl Amer, 1492-1765	HIST 4313	American West
HIST 3173	History of Ideas	HIST 4033	Revol Amer, 1765-1808	HIST 4353	History of Oklahoma
HIST 3193	European Union	HIST 4043	New Nation/Age Jackson	HIST 4803	Public History Internship
HIST 3203	History of Germany	HIST 4053	Civil War & Reconstr	HIST 4901	Dir Read In History
HIST 3303	Hist Imperial Russia	HIST 4063	Gilded Age: 1877-1900	HIST 4902	Dir Read In History
HIST 3403	Modern France	HIST 4073	20th Cent Amer 1920-60	HIST 4903	Dir Read In History
HIST 3503	Early Christian Thought	HIST 4083	Contemporary America	HIST 4904	Dir Read In History

KINESIOLOGY

KINES 1153	Nutrition	KINES 2502	Care/Prev of Athl Inj	KINES 4233	Exercise Physiology
KINES 1932	Tech Ap Gym Fit Aqua	KINES 3353	Health and Aging	KINES 4243	Ther/Prescrip Phy Ed
KINES 1942	Tech App Indiv Sports	KINES 3443	Kinesiology & Anatomy	KINES 4533	Consumer Health Ed
KINES 1952	Tech Appl to Team Sprr	KINES 4052	Sociology of Sports	KINES 4802	Theo Coach Football
KINES 2212	First Aid	KINES 4063	Legal Aspect HPER/Athl	KINES 4832	Theo Coach Bsktball
KINES 2222	Foundations of HPER	KINES 4113	Org/Adm HPER	KINES 4862	Theo Coach Baseball
KINES 2242	Sports Officiating	KINES 4122	Org & Adm Athletics		

MATHEMATICS

MATH 1513	College Algebra	MATH 2014	Sem in Mathematics	MATH 3673	Elem Number Theory
MATH 1613	College Trigonometry	MATH 2823	Applied Calculus	MATH 3713	College Geometry
MATH 1715	College Algebra & Trig	MATH 2834	Calculus II	MATH 3834	Calculus III
MATH 1834	Calculus I	MATH 3113	Foundations In Math	MATH 4001	Ind Study In Math
MATH 2001	Ind Study Mathematics	MATH 3413	Statistical Methods	MATH 4002	Ind Study In Math
MATH 2002	Ind Study Mathematics	MATH 3433	Statistics I	MATH 4003	Ind Study In Math
MATH 2003	Ind Study Mathematics	MATH 3453	Mathematical Stats	MATH 4004	Ind Study in Math
MATH 2004	Ind Study In Mathematic	MATH 3473	Intro to Probability	MATH 4011	Sem in Mathematics
MATH 2011	Sem in Mathematics	MATH 3533	Tech/Prog Mathematics	MATH 4012	Sem in Mathematics
MATH 2012	Sem in Mathematics	MATH 3553	Numerical Analysis	MATH 4013	Sem in Mathematics
MATH 2013	Sem in Mathematics	MATH 3653	Linear Algebra	MATH 4014	Sem in Mathematics

MATH 4133	Intro to Math Logic	MATH 4223	Differ Equations II	MATH 4753	Intro Point Set Topolo
MATH 4153	History of Mathematics	MATH 4233	Vector Analysis	MATH 4853	Advanced Calculus
MATH 4213	Differ Equations I	MATH 4653	Modern Algebra	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 3441	High Angle Rescue	PRM 4172	Natural Resource Law
PRM 3113	Sailing, Canoeing, Hiking and Climbing	PRM 3452	Advanced Ropes	PRM 4173	Land Use Planning
		PRM 3503	Sports Mgmt	PRM 4201	Park Ranger
PRM 3122	Wilderness First Aid	PRM 3663	Recreation Management	PRM 4211	Game and Fish Law
PRM 3132	Wilderness Survival	PRM 3702	Rec Areas and Fac Manage	PRM 4221	Small Craft Safety
PRM 3133	Emergency Response	PRM 4011	Sem in PRM	PRM 4231	Custody and Control
PRM 3142	Adv Wilderness Survival	PRM 4012	Sem in PRM	PRM 4241	Firearm Safety
PRM 3152	Scuba	PRM 4013	Sem in PRM	PRM 4301	Wildland Fire
PRM 3161	Lifeguarding	PRM 4014	Sem in PRM	PRM 4322	Adv Wildland Fire
PRM 3262	Adv SCUBA/SLAM	PRM 4113	Risk Mgmt in Rec	PRM 4502	Rodeo Management
PRM 3171	Lifeguard Instructor	PRM 4122	Rec Sports Mgmt Law	PRM 4523	Fitness Program Mgmt
PRM 3211	Outdoor Ed/Adv Program	PRM 4132	Rec Sports Empl Law	PRM 4533	Sport Info Mgmt
PRM 3221	Outdoor Ed for Tchrs	PRM 4142	Ethics Rec & Sports Mgmt	PRM 4663	Outdoor Recreation
PRM 3421	Basic Ropes Course	PRM 4152	Rec & Sprts Mgmt Stats	PRM 4773	Nat Res Rec Mngmt
PRM 3432	Ropes Course Facilitation	PRM 4163	Community Recreation	PRM 4993	Internship in Pro Rec

PHYSICS

ASTRO4011	Sem In Astronomy	PHY 2145	General Physics I	PHY 3544	Digital Electronics
ASTRO4012	Sem In Astronomy	PHY 2145L	General Physics I Lab	PHY 3544L	Digital Electronic Lab
ASTRO4013	Sem In Astronomy	PHY 2155	General Physics II	PHY 3563	Thermodynamics
ASTRO4014	Sem In Astronomy	PHY 2155L	Gen Physics II Lab	PHY 3573	Heat Transfer
GEOL 4011	Seminar in Geology	PHY 2203	Rigid Body Mechanics	PHY 3583	Meth Theoretical Phys
GEOL 4012	Seminar in Geology	PHY 2213	Strength of Materials	PHY 3603	Mechanics I
GEOL 4013	Seminar in Geology	PHY 3013	Materials Science	PHY 3603L	Mechanics I Lab
GEOL 4014	Seminar in Geology	PHY 3112	Expermntl Techniques	PHY 3633	Fluid Mechanics
PHY 1044	Basic Physics I	PHY 3243	Lin Circuit Analysis	PHY 4011	Seminar In Physics
PHY 1044L	Basic Physics I Lab	PHY 3303	History of Physics	PHY 4012	Seminar in Physics
PHY 1054	Basic Physics II	PHY 3311	Modern Phy/Engnrs Lab	PHY 4013	Seminar in Physics
PHY 1054L	Basic Physics II Lab	PHY 3403	Modern Physics/Enginr	PHY 4014	Seminar in Physics
PHY 1064	General Physics	PHY 3413	Analog Electronics	PHY 4644	Elect/Magnetism I
PHY 1072	Intro Electronics	PHY 3413L	Analog Electronics Lab	PHY 4644L	Elect/Magnetism I Lab
PHY 1072L	Intro Electronics Lab	PHY 3424	Optics	PHY 4663	Elect/Magnetism II
PHY 2011	Seminar in Physics	PHY 3424L	Optics Lab	PHY 4723	Quantum Mechanics
PHY 2012	Seminar in Physics	PHY 3501	Physics Seminar (Topic)	PHY 4743	Solid State Physics
PHY 2013	Seminar in Physics	PHY 3523	Solid-State/Nucl Phys	PHY 4763	Nuclear Physics
PHY 2014	Seminar In Physics	PHY 3523L	Solid-State/Nucl Lab		

POLITICAL SCIENCE

POLSC2303	Comparative Politics	POLSC3163	Prin International Rela	POLSC4303	International Organ
POLSC2623	Criminal Law & Procedure	POLSC3323	Legislative Exec Relations	POLSC4403	Public Policy Formation
POLSC2803	The Judicial Process	POLSC3343	Women & Politics	POLSC4613	Civil Rights/Liberties
POLSC3003	Federal Constitution	POLSC3363	Public Adm Theory/Prac		
POLSC3033	Political Parties	POLSC4233	Urban Politics & Elections		
POLSC3113	Political Theory	POLSC4253	International Law		

PSYCHOLOGY

PSYCH2011	Seminar in Psychology	PSYCH3224	Research Methods	PSYCH4133	Psychology of Sports
PSYCH2012	Seminar in Psychology	PSYCH3224L	Research Methods Lab	PSYCH4203	Psychology of Women
PSYCH2013	Seminar in Psychology	PSYCH3233	Learning and Memory	PSYCH4223	Media & Mental Illness
PSYCH2014	Seminar in Psychology	PSYCH3243	Cross-Cultural Psych	PSYCH4313	Intro Clinical Psych
PSYCH2423	Social Psychology	PSYCH3253	Psychological Tests	PSYCH4333	Physiological Psych
PSYCH2433	Psychological Statist	PSYCH3323	Abnormal Psychology	PSYCH4371	Psychological Research
PSYCH3011	Seminar in Psychology	PSYCH3333	Behavior Management	PSYCH4372	Psychological Research
PSYCH3012	Seminar in Psychology	PSYCH3363	Psych of Personality	PSYCH4373	Psychological Research
PSYCH3013	Seminar in Psychology	PSYCH3503	Indust/Org Psychology	PSYCH4374	Psychological Research
PSYCH3014	Seminar in Psychology	PSYCH4011	Sem In Psych (Topic)	PSYCH4391	Adv Seminar in Psych
PSYCH3201	Contemp Prob in Psych	PSYCH4012	Sem In Psychology	PSYCH4392	Adv Seminar in Psych
PSYCH3202	Contemp Prob in Psych	PSYCH4013	Sem In Psychology	PSYCH4393	Adv Seminar in Psych
PSYCH3203	Contemp Prob in Psych	PSYCH4014	Sem In Psychology	PSYCH4394	Adv Seminar in Psych
PSYCH3204	Contemp Prob in Psych	PSYCH4113	Iss In Chem Dep Trtmt	PSYCH4533	Language Development
PSYCH3213	Developmental Psych	PSYCH4123	Theor & Princ of Psych		

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

TECHNOLOGY

MFET 3183	Statics and Strengths	MFET 4951	Capstone I	TECH 1203	Engineering Drafting
MFET 3433	Automation/Robotics	MFET 4962	Capstone II	TECH 1223	Technology & Society
MFET 4443	Material Hand/Fac Plan	TECH 1101	Intro to Technology	TECH 1313	Wood Mat & Processes

TECH 1713	Applied Electronics	TECH 3613	Power Systems	TECH 4283	Advanced Photography
TECH 1813	Electronic Circuit Analysis	TECH 3813	Electro/Mech Controls	TECH 4313	Const Systems I
TECH 2513	Fabrication Process I	TECH 3823	Industrial Electronics	TECH 4364	Furniture/Cabinet Make
TECH 2543	Weld Proc & Metal	TECH 3833	Commun Electronics	TECH 4373	Economic Decision Anal
TECH 2813	Adv Elec Circuit Analysis	TECH 3843	Telecommunications	TECH 4433	Quality Control
TECH 3113	Industrial Safety	TECH 3853	Electronic Instrum	TECH 4454	Computer Aided Manufac
TECH 3143	Tech Presentations	TECH 3863	Elect Trouble Shooting	TECH 4493	Manufacturing Oper II
TECH 3173	Environmental Regulatn	TECH 4003	Ind Study Technology	TECH 4514	Machine Tool Processes
TECH 3203	Comp Aided Draft (CAD)	TECH 4113	Hist/Phil Voc Adult Ed	TECH 4813	Networking Electron II
TECH 3263	Machine Drafting I	TECH 4123	Industrial Supervision	TECH 4823	Digital Electronics
TECH 3413	Manufacturing Process	TECH 4223	Elect Circuit Design	TECH 4833	Micro Comp Elec
TECH 3453	Industrial Plastics	TECH 4233	Graphic Comm Systems	TECH 4843	Programmable Controlrs
TECH 3463	Manufacturing Oper I	TECH 4243	Computer Aid Draft II	TECH 4903	Manuf Enterprises
TECH 3513	Material Test/Analysis	TECH 4253	Machine Drafting II		
TECH 3523	Fabrication Process II	TECH 4273	Practical Photography		

DEPARTMENT OF LANGUAGE AND LITERATURE

COLLEGE OF ARTS AND SCIENCES

FACULTY

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M. Patterson	CAM 209F	malcolm.patterson@swosu.edu	(580) 774-7120
V. Reimers	CAM 209 C	valerie.reimers@swosu.edu	(580) 774-3244
J. Silver	CAM 224 C	james.silver@swosu.edu	(580) 774-3242
J. Stoffers	CAM 224 E	joyce.stoffers@swosu.edu	(580) 774-3086

DEPARTMENTAL GOALS

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.
10. To develop creative writing skills.
11. To promote civic engagement and provide skills and knowledge necessary to be a responsible citizen.

PROGRAMS OF STUDY

Majors: B.A.Ed. English Education
B.A. English
Literature Emphasis
Writing Emphasis
B.A. Spanish

Minors: English
Spanish

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

GENERAL INFORMATION

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

Student organizations and activities supported by the department include Sigma Tau Delta, the English Club, the Southwestern Hispanic Club, and the Spanish Club.

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
KINES 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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

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

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

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

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

Guided 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 4453 Advanced Composition

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

LIT 3033 World Mythology
LIT 3333 Shakespeare in Context
LIT 3343 World Folk Literature
LIT 4423 Introduction to Linguistics
LIT 4593 Diversity in American Literature
LIT 4883 Women and Literature

Senior level English/Literature elective (3000 or 4000 level) 3*

World Language: A course beyond Elementary I 3 - 4

Total hours for major 42 - 43

***NOTE: LIT 4463 Children's Literature does not count for credit in the
English major.**

ENGLISH: Writing Emphasis (CODE 112)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1	1004 Biology Concepts4	3483 Beginning Poetry 3	3553 Writing for Workplace 3
1113 English Comp I.....3	1103 Amer Gov'Politics3	3603 English Grammar..... 3	Econ & International Studies..... 3
1313 Intro to Public Speak3	1213 English Comp II3	4453 Advanced Comp 3	Free Elective3
2413 Intro to Literature3	3473 Beginning Fiction.....3	Elem Foreign Lang I..... 4	Guided LIT elective 3
Computer Applications.....2	Behav/Soc Sci3		Minor Hours3
Mathematics3			
Total:15	Total:16	Total: 13	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1063 US History3	Free Electives.....3	4663 Creative Nonfiction..... 3	Free Elective6
4423 Intro to Linguistics.....3	Minor Hours6	Dept. Elective 3	Guided Writing Elective.....3
Econ & International Studies.....3	Sr-level LIT Electives3	Minor Hours 6	Minor Hours3
Guided Writing Elective.....3	Natural Science4	Sr- level LIT Elective 3	Sr-level LIT Elective.....3
Minor Hours3			
Total:15	Total:16	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	1004 Biology Concepts4	3023 Literary Theory/Prac 3	3013 Writing Theory/Prac 3
1113 English Comp I.....3	1063 U.S. History3	Elem Foreign Lang I..... 4	3323 Mod Voices in Amer Lit..... 3
1313 Intro to Public Speak3	1103 Amer Gov'Politics3	Natural Science 4	Computer Applications.....2
2413 Intro to Literature3	1213 English Comp II3	Minor Hours 3	Econ & International Studies..... 3
Behav/Soc Sci3	Minor Hours.....3		Elem Foreign Lang II4
Mathematics3			
Total:16	Total:16	Total: 14	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3603 English Grammar.....3	4123 Brit Lit 1795-19503	Guided LIT Electives..... 3	4993 The Novel..... 3
4553 Issues in Amer Lit.....3	General Elective.....6	Minor Hours 6	General Electives6
4763 Brit. Lit to 18003	Guided Writing Elective3	Sr-level ENGL/LIT Elective 3	Guided LIT Electives 3
Econ & International Studies3	Minor Hours.....3	World Lit Elective 3	Minor Hours3
Minor Hours3			
Total:15	Total:15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

BACHELOR OF ARTS SPANISH

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS43 - 44

Composition.....6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

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 & Government6

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
KINES 1133 Wellness Concepts & Exercise
Applications

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

Spanish Major Code No. 1105

Required Courses..... 39

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

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

SPAN 3013 Spanish for Law Enforcement
SPAN 3023 Spanish for Healthcare Professionals
SPAN 4011-4 Seminar in Spanish
SPAN 4031-4 Independent Studies
SPAN 4923 Teachers Course in World Languages

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation120
Minimum credit hours in the liberal arts & sciences..... 80
Minimum credit hours in upper-division
(3000/4000 courses) 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU..... 8
Minimum credit hours at SWOSU (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework.....2.00
Minimum Grade Point Average in major.....2.00

Electives (including minor) to bring total to120

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

FOR MORE INFORMATION CONTACT:

Dr. Jill Jones
Chair, Dept. of Language & Literature
Phone: (580) 774-3734
E-Mail: jill.jones@swosu.edu

SPANISH (Code 1105)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1	1004 Biology Concepts4	1063 US History 3	Econ & International Studies..... 3
1054 Elem Spanish I.....4	1103 Amer Gov'Politics3	Natural Science..... 4	2153 Intermediate Spanish II..... 3
1113 English Comp I.....3	1154 Elem Spanish II4	2053 Intermediate Spanish I 3	Behav, Social, & Cultural Sci..... 3
1313 Intro to Public Speak3	1213 English Comp II3	Econ & International Studies 3	Fine Arts & Humanities 3
1022 Comp & Info Access2		Minor Hours 3	Minor Hours 3
Mathematics3			
Total:16	Total:..... 14	Total: 16	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3553 Hispanic Life & Culture ...3	3753 Readings in Spanish3	4043 Adv Span Conversation 3	4473 Hispanic Amer Writers..... 3
3653 Intermediate Span Conv ...3	3853 Inter Span Comp/Gram ...3	4053 Adv Span Comp/Gram..... 3	4554 Spanish Abroad/Intrnshp.....4
Free Elective.....3	Free Electives.....6	4373 Hispanic Literature..... 3	Free Elective 3
Guided Spanish Electives3	Minor Hours.....3	Free. Elective 3	Minor Hours 3
Minor Hours3		Minor Hours 3	4571 Senior Spanish Capstone 1
Total:15	Total:..... 15	Total: 15	Total: 14

* First time entering Freshmen need to take 1001 Freshman Orientation

DEPARTMENT OF MATHEMATICS

COLLEGE OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

1. To provide the 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 advisor 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, Precalculus, and Calculus I for students who wish to earn credit by examination in any of these courses. The Precalculus CLEP exam may be used to earn credit for College Trigonometry.

A mathematics major or minor will provide students with many job opportunities in fields besides teaching, such as actuarial sciences, 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's 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 able to borrow 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**

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

KINES 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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

Students should work closely with their advisor to ensure that they take mathematics courses in the appropriate sequence. For example, taking a 1000 level mathematics course after successfully completing Calculus I is usually not recommended. Deviations from the appropriate sequence require departmental approval.

MATHEMATICS (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	Comp Programming ¹3	3653 Linear Algebra 3
1715 Coll Alg & Trig5	Gen Educ Crses.....7	Free Electives ²3	Gen Educ Crses..... 9
or 1513 & 1613		Gen Educ Crses.....6	
Gen Educ Crses5			
Total:14	Total:.....14	Total:.....16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Free Electives ²5	4213 Differ Equations.....3	4653 Modern Algebra3	4853 Advanced Calculus..... 3
Gen Educ Crses4	Free Electives ²5	Free Electives ²9	Free Electives ² 12
Math Electives ³6	Gen Educ Crses.....5	Gen Educ Crse3	
	Math Electives ³3		
Total:15	Total:.....16	Total:.....15	Total:..... 15

* First time entering Freshmen need to take 1001 Freshman Orientation

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

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

³ 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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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 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
KINES 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 World Music
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 (Enroll each semester)

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	
OR 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.	
OR	
MUSIC 4452 Vocal Methods and MUSIC 4502 Choral Lit.	
MUSIC 4950 Senior Recital (Principal area)	
MUSIC 1411 Brass Class	
MUSIC 1511 Woodwind Class	
MUSIC 1611 Percussion Class	
MUSIC 1711 String Class	
MUSIC 1911 Beginning Guitar Class	
MUSIC 4003 Individual Study in Music (Internship)	
ACCTG 2213 Principles of Financial Accounting	
MRKTG 3143 Principles of Marketing	
MRKTG 3243 Promotional Strategy	
MRKTG 3443 Marketing/Consumer Behavior	
MIFOS 3113 Introduction to MIS	

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation	120
Minimum credit hours in the liberal arts & sciences	40
Minimum credit hours in upper-division (3000/4000 courses)	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU	8
Minimum credit hours at SWOSU (15 of the last 30)	30
Minimum Grade Point Average in all course work	2.00
Minimum Grade Point Average in major	2.00

Bachelor of Music with emphasis in MUSIC PERFORMANCE
PIANO or ORGAN (CODE 141)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1	1032 Intro to World Music.....2	2981 Prin of Conducting.....1	3101 or 3151 Conducting1
1013 Intro to Music I.....3	1213 English Comp II.....3	3253 Music Theory III.....3	3303 Music Theory IV3
1113 English Comp I.....3	1314 Music Theory II4	3353 History of Music I.....3	3403 History of Music II3
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 Crses4
Gen Educ Crse.....2	Instr or Choral Ens.....1	Gen Educ Crses3	Instr or Choral Ensemble.....1
Instr or Choral Ens1	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	Voice1
Total:16	Total:15	Total:16	Total:15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint.....2	4232 Instrumentation2	4102 Form and Analysis2	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance	4951 Senior Recital1
Crse From List Below2	Crse From List Below2	Crse From List Below.....2	Crse From List Below2
Foreign Language.....4	Gen Educ Crses.....4	Gen Educ Crses6	Gen Educ Crses6
Gen Educ Crse.....3	Instr or Choral Ensemble1	Instr or Choral Ensemble.....1	Instr or Choral Ensemble.....1
Instr or Choral Ensemble.....1	Music Elective2	Music Electives2	Music Electives2
Music Elective.....1	Prin Applied Area.....2	Prin Applied Area.....2	Prin Applied Area.....2
Prin Applied Area.....2	Proficiency Exam III		
Voice1	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 to World Music.....2	2831 Class Piano III1	2841 Class Piano IV1
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 II4	3253 Music Theory III.....3	3303 Music Theory IV3
1214 Music Theory I.....4	2821 Class Piano II1	3353 History of Music I.....3	3403 History of Music II3
2811 Class Piano I.....1	4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	Applied Voice.....2	Applied Voice.....2	Applied Voice2
Choral Ens2	Choral Ens1	Choral Ens1	Choral Ens1
Choral Ens1	Gen Educ Crses.....3	Crse From List Below.....2	Gen Educ Crses5
	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 Instrumentation2	4102 Form and Analysis2	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	4900 Recital Attendance	4951 Senior Recital1
Applied Piano.....1	Applied Piano1	Applied Voice.....2	Applied Voice2
Applied Voice2	Applied Voice.....2	Choral Ens1	Choral Ens1
Choral Ens1	Choral Ens1	Gen Educ Crses6	Gen Educ Crses6
Crse From List Below2	Crse From List Below2	Music Electives2	Music Electives3
Foreign Language.....4	Gen Educ Crses.....5		
Gen Educ Crse.....3	Music Elective2		
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 to World Music 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	1032 Intro to World Music 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	3101 Instrumental
1113 English Comp 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	Instrument Class 1	Gen Educ Crses 3	Gen Educ Crses..... 4
	Principal Applied..... 1	Principal Applied 1	Principal Applied 1
	Proficiency Exam I	Instrument Class..... 1	Instrument Class..... 1
			Proficiency Exam II
Total:..... 14	Total: 16	Total:..... 16	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 MIFOS 3113 Introduction to MIS

* 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

Composition6

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 Sciences8

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 & Government6

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 Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 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 SWOSU8
Minimum credit hours at SWOSU (15 of the last 30).....30
Minimum Grade Point Average in all coursework2.00
Minimum Grade Point Average in major2.00

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
(Choosing from MUSIC 4122 Intro. To Orff **or** MUSIC 4302 Elem.
& Sec. General Music)
MUSIC 4900 Recital Attendance, (Enroll each semester)
Applied Music (one orchestral instrument and/or piano)
Principal Area, 6 hours
Principal Area Proficiency Exams I, II, and III
Applied Music (various orchestral instruments)
Secondary Area, 3 hours
MUSIC 1611 Percussion Class
MUSIC 3171 Introduction to Movement
MUSIC 4011 Keyboard Improv for Music Therapists
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)
Choral Ensembles, 2 hours (two semesters)
Instrumental Ensemble(s), 8 hours (enroll each sem.)
(At least 1 hour of Music 4041 Percussion Ens. **required**)
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 11022 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
KINES 1133 Wellness Concepts & Exercise Appl.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 136

Minimum credit hours in the liberal arts & sciences 40

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

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

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

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

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 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
 Elective in Advanced Elem. Methods, 2 hours
 (Choosing from MUSIC 4122 Intro. To Orff or
 MUSIC 4302 Elem. & Sec. General Music)
MUSIC 4900 Recital Attendance (Enroll each semester)
Applied Music (voice or piano)
Principal Area, 8 hours (Enroll each semester)
MUSIC 4011 Keyboard Improv for Music Therapists
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
Guitar (In addition to 1911), 1 hour
Choral Ensembles, 8 hours (Enroll each semester)
MUSIC 4041 Percussion Ensemble
MUSIC 3171 Introduction to Movement

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	2101 Voice Class 1	2841 Class Piano IV 1
1013 Intro Music I 3	1314 Music Theory II 4	2831 Class Piano III 1	3101 Instrum Conducting 1
1113 English Comp I 3	2821 Class Piano II 1	2981 Prin of Conducting 1	3303 Music Theory IV 3
1172 Intro to Mus Therapy 2	4900 Recital Attendance	3171 Intro to Movement 1	4900 Recital Attendance
1214 Music Theory I 4	Applied Principal Instr 1	3253 Music Theory III 3	Adv Elem Methods Cl 2
2811 Class Piano I 1	Crses from List Below 4	4900 Recital Attendance	Applied Principal Instr 1
4900 Recital Attendance	Gen Educ Crses 3	Applied Principal Instr 1	Applied Voice 1
Applied Principal Instr 1	Instrumental Ens 1	Crses from List Below 4	Crses from List Below 4
Choral Ens 1	Primary Ins. Proficiency Exam I	Gen Educ Crses 4	Gen Educ Crses 3
Instrumental Ens 1		Instrumental Ens 1	Instrumental Ens 1
			Mus Thrpy Piano Prof Exam I
			Proficiency Exam II
Total: 17	Total: 17	Total: 17	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1611 Percussion Class 1	3403 History of Music II 3	4900 Recital Attendance	4900 Recital Attendance
1911 Beginning Guitar 1	4011 Keyboard Impro 1	Crses from List Below 8	4950 Sr Recital or Project
3353 History of Music I 3	4232 Instrumentation 2	Gen Educ Crses 8	Crses from List Below 7
4900 Recital Attendance	4900 Recital Attendance	Instrumental Ens 1	Gen Educ Crses 9
Applied Principal Instr 1	Applied Guitar 1	Intro to Music Tech 1	Instrumental Ens 1
Choral Ens 1	Applied Principal Instr 1	Mus Thrpy Piano Prof Exam II	
Crses from List Below 4	Applied Voice 1		
Gen Educ Crses 4	Crses from List Below 4		
Instrumental Ens 1	Gen Educ Crses 3		
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 Conducting1	3303 Music Theory IV3
1013 Intro Music I 3	1314 Music Theory II 4	3171 Intro to Movement.....1	4041 Percussion Ensemble..... 1
1113 English Comp I 3	4900 Recital Attendance	3253 Music Theory III3	4900 Recital Attendance
1172 Intro to Mus Therapy 2	Choral Ensemble 1	4900 Recital Attendance	Adv Elem Methods Cl.....2
1214 Music Theory I 4	Crises From List Below 4	Choral Ensemble1	Choral Ensemble 1
4900 Recital Attendance	Gen Educ Crses 3	Crises From List Below4	Crises From List Below.....4
Choral Ensemble 1	Principal Applied..... 1	Gen Educ Crses6	Gen Educ Crses4
Principal Applied 1	Secondary Applied 1	Principal Applied1	Principal Applied 1
Secondary Applied..... 1	Proficiency Exam I	Secondary Applied1	Secondary Applied 1
			Mus Thrpy Piano Prof Exam I
			Proficiency Exam II
Total:..... 16	Total: 17	Total:18	Total:17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1611 Percussion Class..... 1	3403 History of Music II 3	4900 Recital Attendance	4900 Recital Attendance
1911 Beginning Guitar 1	4011 Keyboard Impro..... 1	Choral Ensemble1	4950 Sr Recital or Project
3353 History of Music I 3	4232 Instrumentation..... 2	Crises From List Below7	Choral Ensemble 1
4261 Intro to Music Tech 1	4900 Recital Attendance	Gen Educ Crses8	Crises From List Below.....8
4900 Recital Attendance	Applied Guitar..... 1	Mus Thrpy Piano Prof Exam II	Gen Educ Crses6
Choral Ensemble..... 1	Choral Ensemble 1	Principal Applied1	Principal Applied 1
Crises From List Below 4	Crises From List Below 4	Secondary Applied1	Secondary Applied 1
Gen Educ Crses.....4	Gen Educ Crses 3	Intro to Music Tech1	
Principal Applied 1	Principal Applied..... 1		
Secondary Applied..... 1	Secondary Applied 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

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DEPARTMENTAL GOALS

The Department of Social Sciences seeks to:

1. Enable all students to live and serve intelligently in a democratic society through study of national and international political, economic, social, and cultural systems and associated problems within courses offered in the general education program.
2. Develop students' capabilities in sound scholarship, science, and research methods so that graduate work may be pursued successfully.
3. Prepare well-qualified history teachers for the public schools in Oklahoma.
4. Provide a firm foundation for successful careers in the diverse, applied settings of criminal justice, government and politics, law, and business.

PROGRAMS OF STUDY

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 PROGRAMS

Majors: B.A. Criminal Justice
B.A. History
B.A. Political Science
B.A.Ed. History Education

Minors: American Indian Studies
Criminal Justice
Economics
History
Political Science
Social Science (Pre-Law)

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

Pre-Professional: Law

American Indian Studies

P. Holley

Pre-Law

K. Tillett
D. Brown

Economics

J. Dunn
R. May
H. Nowka

GENERAL INFORMATION

In support of its goals, the Department of Social Sciences provides for substantial contributions to the general education program at SWOSU as well as sponsoring selected major and minor programs. Courses and programs include Criminal Justice, Economics, Geography, Gerontology, History, History Education, Political Science, Pre-Law, and Sociology. Our courses are designed to examine the ways in which human beings have related to each other and to their environment over time and to do so from a variety of academic perspectives. Our programs are aimed at giving students a broad understanding of the human social condition and providing them with an education that will serve as a firm foundation for many careers in business, social and justice services, government service, or education. Criminal Justice, History, History Education, Political Science and Pre-Law provide solid foundations for a wide range of professional positions.

Practical field experience is highly valued in our degree programs. We have internships available for Criminal Justice and Political Science students. Student teacher placements are required of History Education Students. These placements give students a chance to explore the real world of their proposed careers and the opportunity to develop their skills in actual work settings from schools, to prisons, to social and justice service agencies.

Most faculty members have doctoral degrees and are actively involved in professional research, assuring students that their instructors are on the cutting edge of their fields and that their classes are in tune with the latest developments. Our faculty are not only scholars; they pride themselves in being fine teachers. Our students report that many of our courses are the best and most enjoyable that they have ever taken. Faculty members are notable for taking a personal interest in their students and developing relationships that go beyond the classroom to develop into life-long friendships and professional ties.

Beyond our formal program of education, our students enjoy learning and socializing in student-led clubs devoted to criminal justice, history, and political science. We also support a chapter of Phi Alpha Theta, the international History Honor Society, and participate in the Model United Nations 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

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

Select 6 hours from:

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

Select 3 hours from:

CRMJS	3803	Privatization of Criminal Justice
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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

BACHELOR OF 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
KINES 1133 Wellness Concepts & Exercise
Applications

History Major Code No. 120

Required Courses..... 39

HIST 2603 Writing History
HIST 4093 Historical Research & Writing

Upper Level in History:

American (15 hours)
European and/or World (12 hours)
Additional upper-level history (6 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 (15 of the last 30)..... 30

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

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

CRIMINAL JUSTICE (CODE 107)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1003 Intro to Sociology.....3	1113 Intro to Crim Justice3	Criminal Justice3
1113 English Comp I.....3	1213 English Comp II.....3	Gen Educ Crses..... 10	Gen Educ Crses.....7
Gen Educ Crses 10	Gen Educ Crses.....9	Minor3	Minor3
Total: 14	Total:.....15	Total:..... 16	Total: 13

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Criminal Justice.....6	Criminal Justice9	Criminal Justice9	Criminal Justice6
Elective.....6	Elective5	Elective6	Elective3
Minor.....3	Minor3		Minor6
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 II3	2603 Writing History3	Am/Wld Hist.....9
1113 English Comp I..... 3	Gen Educ Crses.....13	Gen Educ Crses..... 13	Elective3
Gen Educ Crses 11			Minor3
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	Am/Wld Hist.....3
Electives 3	Electives.....6	Am/Wld Hist.....6	Electives4
Minor..... 3	Minor3	Electives.....3	Minor6
		Minor3	
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 11022 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
KINES 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 4253 International Law
POLSC 4613 Civil Rights & Liberties

International Relations Concentration:

POLSC 3163 Prin. of International Relations
POLSC 3353 Model United Nations
POLSC 4303 International Organizations

Urban & Minority Politics Concentration:

POLSC 3343 Women & Politics
POLSC 4233 Urban Politics & Election Sys.

Public Administration & Public Policy Concentration:

POLSC 3363 Public Admin. Theory & Pract.
POLSC 4403 Public Policy Formation
POLSC 4933 Government Internship

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

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

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120

Minimum credit hours in the liberal arts & sciences 80

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

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

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

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

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	Elective4	2803 Judicial Process3
1113 English Comp I.....3	2303 Comp Politics.....3	Gen Educ Crses.....6	Elective3
Gen Educ Crses10	Gen Educ Crses.....9	Political Sci.....6	Minor3
			Political Sci.....6
Total:14	Total:15	Total:16	Total:15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3003 Federal Constitution3	3323 Legis/Exec Relation3	3113 Political Theory3	3033 Political Parties3
3853 Stats Social Sciences3	3863 Fund of Research3	Electives.....6	Electives9
Gen Educ Crses6	Gen Educ Crses.....6	Minor6	Minor3
Minor.....3	Minor3	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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HISTORY

The College of Pharmacy at Southwestern Oklahoma State University (SWOSU) was founded in 1939 and graduated its first class in 1941. The College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education and is a member of the American Association of Colleges of Pharmacy. Many of the approximately 5000 alumni of the College of Pharmacy at SWOSU are leaders in their communities and very active in professional pharmacy organizations.

MISSION, 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 university, state, profession, 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 of pharmaceutical knowledge, professionalism, and a commitment to life-long scholarship.
- The goal of scholarly activity is to advance knowledge with an emphasis on the scholarship of teaching, pharmaceutical care and pharmaceutical sciences. Collegiality and student involvement is encouraged.
- The goal of service is to provide resources, as needed, to assist the stakeholders of the College of Pharmacy.

The objective of the College of Pharmacy 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. Considering the demands and expectations of pharmacists by society, the college strives to select students having high intellectual ability and dedication of purpose, who can serve as change agents, and the capacity to withstand the rigors of education and practice.

The education and training of the students will ensure the graduates have:

- Acquired knowledge of the basic and clinical sciences necessary for the success in the practice of pharmacy and advanced training.
- Developed skills that foster effective communication among pharmacists, patients, and other health care providers.
- Acquired the skills necessary to elicit relevant clinical information, including history taking and objective assessment.
- Performed basic skills necessary for the practice of pharmaceutical care.
- Performed critical analysis of professional literature, using information retrieval resources.
- Provided pharmaceutical care by medication therapy management utilizing evidence-based pharmacotherapy to ensure positive outcomes to improve the patient's quality of life.
- Developed professional and ethical values, including integrity, compassion, responsibility, and commitment to community health and wellness.

- Developed 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 the pharmacist has for the health and well being of people emphasizes the need for accurate decision making and high ethical standards. Above all, since pharmacy involves working with both patients and other health care professionals, a pharmacist must relate well to others.

The majority of pharmacists practice in a community setting. Community pharmacies range in size from the very small prescription shop to the large full-line drug store and can be owned by individuals or large corporations. Community pharmacy requires extensive use of business and management skills. In addition to being responsible for the dispensing of both prescription and nonprescription drugs, the community pharmacist also has the opportunity to provide advice and information on health matters to the public and provide consultation service to health care facilities as well as other health care providers.

As a member of the health care team, the health-system and/or hospital pharmacist is directly involved with patient care. The hospital pharmacist works with doctors and nurses to design a program of drug treatment most appropriate to each patient. In addition, the pharmacist is responsible for the drug distribution system of the hospital. Specialized areas, such as nuclear pharmacy, drug and poison information and intravenous therapy, have become a part of hospital pharmacy practice. The hospital pharmacist may also provide training to other staff members in the proper use of medications.

In addition to these two major areas, pharmacists work in industry, education, and all levels of government. Many serve as consultants to nursing homes, hospitals, and home health care agencies. Individuals with pharmacy degrees may pursue other health careers by entering medical, dental, or other professional educational programs. With their health and science education, pharmacists may specialize in the areas of technical writing, science reporting, and editing of professional magazines or journals. Pharmacists with legal training may become experts in pharmaceutical law.

With these multiple opportunities in an evolving health care environment, Pharmacy is a very rewarding profession.

LICENSURE

Legal requirements vary slightly from state to state, and students should familiarize themselves with the laws and regulations of the states in which they plan to seek licensure. In Oklahoma, a candidate for licensure must: (1) be of good moral character, (2) be no less than 21 years of age, (3) be a graduate of an accredited College of Pharmacy, (4) have experience in pharmacy practice in accordance with the regulations of the State Board of Pharmacy, and (5) have

passed an examination as specified by the State Board of Pharmacy.

Additional information may be obtained through the State Board of Pharmacy of the state in which licensure is desired.

PROGRAM OF STUDY AND RESIDENCE

In accordance with the regulations of the Accreditation Council for Pharmacy Education, a minimum of six academic years of college work is required for completion of the curriculum leading to a Doctor of Pharmacy (Pharm.D.) degree. The College of Pharmacy curriculum at SWOSU is commonly referred to as a two-four program: two years of pre-pharmacy study plus four years of study in the professional Pharm.D. program.

The pre-pharmacy course work may be completed at SWOSU or at any accredited college or university offering pre-pharmacy courses, which are reasonably equivalent to those required pre-pharmacy courses at SWOSU.

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 specific pre-pharmacy curriculum and who qualify for and obtain admission to SWOSU. Regulations concerning admission to SWOSU are listed in the General Catalog of the institution or may be obtained from the Office of the Registrar.

ADMISSION TO THE PROFESSIONAL DOCTOR OF PHARMACY PROGRAM

Students may apply for admission into the professional Doctor of Pharmacy program for the Fall, Spring or Summer semesters. Applications for admission into the professional program for Summer or Fall semesters must be submitted by the previous February 1st. Applications for admission into the professional program for the Spring semester must be submitted by the previous October 1st. Selection for admission into the professional program is competitive. The minimum standards to be considered for admission are as follows:

1. Satisfactory completion of at least 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 2.50;

4. Submission of valid ACT or SAT scores.

5. Submission of Pharmacy College Admission Test (PCAT) scores from a PCAT test taken within 3 years of the date of application.

Applications must be submitted on standardized forms supplied by the College of Pharmacy. Application forms may be obtained from the Pharmacy Admissions Counselor and are not available online. 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, ACT (American College Test) or SAT (Scholastic Aptitude Test) and PCAT (Pharmacy College Admission Test) scores. A preliminary selection of applicants will be made based on an initial evaluation of these criteria. Applicants selected by this initial process will be required to appear for a personal interview before a committee composed of faculty members and pharmacy students. The interview process provides an opportunity to assess important issues such as motivation, character, personal objectives, and communication skills. An appraisal from all aspects of the interview is included in the applicant's file and is weighed, along with other factors, such as consistency of academic performance, by the Admissions Committee in making its final recommendation regarding admission to the Dean of the College of Pharmacy.

Selection for admission to the professional Pharm.D. program in the College of Pharmacy is competitive. Preference is given to qualified applicants who are residents of Oklahoma. Consideration is also given to other qualified permanent residents and citizens of the United States who complete their pre-pharmacy program at SWOSU. Only a very small number of other permanent residents and citizens of the United States who are not Oklahoma residents are offered admission, and these applicants typically are residents of states that border Oklahoma.

ADMISSION WITH ADVANCED STANDING FROM OTHER ACCREDITED COLLEGES OF PHARMACY

Applicants may be considered by the Admissions Committee for admission with advanced standing if they have completed work beyond the pre-pharmacy level in another institution accredited by the Accreditation Council for Pharmacy Education. The applicant must not be on academic or disciplinary probation or suspension, and such applicants must have passed each course accepted for transfer credit with a grade at least "C" or better. The completed work must be equivalent in content to that offered at SWOSU. In addition to official transcripts, applicants must submit their PCAT scores and a letter of good standing from the Dean of the College of Pharmacy last attended. A minimum of two semesters residency with at least thirty semester hours of credit is required for graduation of all students transferring to SWOSU from other Colleges of pharmacy, regardless of the amount of work previously completed.

ADVANCED STANDING EXAMINATIONS AND CLEP

Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are given for some subjects included in the pre-pharmacy curriculum. Subject to certain conditions, a student may elect to take Advanced Standing or CLEP Examinations for the purpose of earning credit for courses. Information relative to the examinations may be obtained from the Pharmacy Admissions Counselor, and eligible students are encouraged to participate in the examination programs.

ADVISEMENT

Each student enrolled in pre-pharmacy or the professional pharmacy program is assigned a faculty advisor who can counsel and advise the student. The advisor will assist the student in developing, following, and updating as necessary the personal Degree Plan, and will provide reasonable assistance and guidance in the matter of curriculum selection. However, *THE STUDENT IS THE INDIVIDUAL WITH FINAL RESPONSIBILITY FOR CORRECT AND APPROPRIATE ADHERENCE TO PREREQUISITE REQUIREMENTS*. It is the student who will experience academic delay and loss of both time and course credit through matriculation in courses for which the student has not satisfied prerequisites.

THE PHARMACY CURRICULUM

The curriculum of the College of Pharmacy is established by the faculty. Since pharmacy is a dynamic profession, the faculty reserves the right to make substitutions and necessary changes in course requirements without prior notice. Students, who fail to progress normally as the program is prescribed, are suspended, or take a leave of absence, may encounter program delays or additional semester credits due to curricular changes.

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. 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, 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 course is not satisfactorily completed 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. The third opportunity is not allowed for the fourth year Advanced Pharmacy Practice Experience (APPE) courses.
 - f. Suspension as a result of any other regulations supercedes the opportunity for a third "official" enrollment.
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 reserves the right to suspend from the College of Pharmacy any students whose attitude, actions or conduct, on or off campus, could discredit themselves, the College of Pharmacy, SWOSU, or the profession of pharmacy.
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 forgiveness or academic reprieve granted in the computation of pre-pharmacy or pharmacy grade-point averages.

SPECIAL NOTES ON THE PROFESSIONAL PHARM.D. PROGRAM

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

1. The successful completion of the professional Pharm.D. program curriculum in the College of Pharmacy as well as the practice of pharmacy requires that the accumulation of scientific knowledge is accompanied by the simultaneous acquisition of skills and professional attitudes and behavior. Therefore, all didactic, laboratory, and pharmacy practice course requirements of the curriculum in the College of Pharmacy are applicable to all students and cannot be waived.
2. Only students who are currently enrolled in the College of Pharmacy may attend the professional Pharm.D. program classes in the College of Pharmacy without permission from the Dean of the College of Pharmacy.
3. Students enrolled in any experiential components of the professional Pharm.D. program must adhere to any specific policies, procedures and/or requirements of the assigned pharmacy practice site. The Advanced Pharmacy Practice Experience (APPE) courses (Medicine, Community, Institutional, and Selective) comprise the entire fourth year and are conducted in off-campus teaching facilities affiliated with the College of Pharmacy. Any added costs (i.e., required liability and health insurance, practice site requirements, supplies, housing, food, transportation, etc.) incurred through this dislocation must be borne by the student. Enrollment in these courses is limited by the availability of facilities and faculty. Therefore, students will be assigned to these courses based on the number of students that can be accommodated. Problems associated with the College of Pharmacy Regulations that affect the student may result in a delay in enrollment in these courses.
4. Professional Pharm.D. program students who have complaints regarding the standards or policies and procedures of the Accreditation Council for Pharmacy Education (<http://www.acpe-accredit.org/>) must submit written documentation to the Associate Dean. If the student and Associate Dean cannot resolve the complaint, the complaint will be referred to the College of Pharmacy Policy Committee for review. The College of Pharmacy Policy Committee will make its recommendation to the Dean and the Dean of the

College of Pharmacy will communicate the recommendation to the student.

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 Pharm.D. program must be certified as pharmacy interns by the Oklahoma State Board of Pharmacy.
7. All students in the professional Pharm.D. program must complete all required documentation, which includes background checks, immunizations and vaccine series, drug screens and the SWOSU Health Record, in the prescribed time periods.
8. All students in the professional Pharm.D. program must complete and document the required Introductory Pharmacy Practice Experience (IPPE) hours as prescribed prior to entering the third year of the four-year professional Pharm.D. program or the students cannot continue in the professional Pharm.D. program.
9. The cost of attendance for the professional Pharm.D. program includes the specific tuition and other costs for the professional Pharm.D. program as well as all SWOSU cost requirements.

FINANCIAL AID INFORMATION

Financial assistance may be available from or through SWOSU in the forms of part-time employment, scholarships, grants, and loans. Since it is important for entering students to determine that they are capable of doing satisfactory college work, they are encouraged to provide sufficient funds for their first year without employment.

Financial aid programs are coordinated by the Director of Student Financial Services, and inquiries should be directed to that office.

LOANS

Loans from non-federal and non-SWOSU administered funds may be available to students who have been admitted to the College of Pharmacy. Additional information and applications can be obtained from the Associate Dean. These loans include:

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.

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
3001 Intro. to Pharmacy	1	4032 Pharmaceutics III.....	2
3023 Pharmaceutics I	3	4041 Pharm. Care Lab II	1
3615 Pathophysiology I.....	5	4302 Drug Information	2
4124 Biochemistry	4	4633 Biopharmaceutics II	3
4213 Immunology	3	4655 Pharmacology I.....	5
		Professional Elective.....	2
Total	16	Total	15
			Total.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
5010 Pharm. Seminar	0	5914 Pharm. Prac.-Comm. A.....	4
5054 Nonpres. Prod. Therap.....	4	5944 Pharm. Prac.-Select. A.....	4
5142 Pharmaceutics IV.....	2	5954 Pharm. Prac.-Medi. A.....	4
5151 Pharm. Care Lab IV.....	1	5964 Pharm. Prac.-Medi. B	4
5204 Concepts of Phrmcothry ...	4		
5833 Pharmaceutical Mrktng.....	3		
Professional Elective	2		
Total	16	Total	16
			Total.....16

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 55
 Minimum Grade Point Average to enter the professional
 program 2.50
 Minimum Grade Point Average in major 2.00

COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

Dr. 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
Clinical Laboratory Science Program
Health Sciences**

SCHOOL OF BEHAVIORAL SCIENCES

AND EDUCATION Dr. Chad Kinder, Associate Dean

**Education
Kinesiology
Parks and Recreation Management
Psychology
Social Work**

SCHOOL OF BUSINESS AND TECHNOLOGY Dr. Larry McKee, Associate Dean

**Accounting and Finance
Entrepreneurship and Computer Systems
Industrial and Engineering Technology
Management and Marketing**

SCHOOL OF NURSING Dr. Barbara Patterson, 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.

CLINICAL LABORATORY SCIENCES PROGRAM (CLS)

Clinical Laboratory Science - B.S. (3+1 and 4+1 options)

HEALTH SCIENCES MAJOR

Health Sciences - B.S.

Microbiology Minor

SCHOOL OF ALLIED HEALTH SCIENCES

FACULTY

Gary Wolgamott, Associate Dean
Science Building, Room 206
Phone: (580) 774-3079
E-mail: gary.wolgamott@swosu.edu
<http://www.swosu.edu/alliedhealth/>

L. Appeddu	SCI 202A.....	lisa.appeddu@swosu.edu	(580) 774-3148
A. Aspedon	SCI 325.....	arden.aspedon@swosu.edu	(580) 774-3046
M. Catterson	HPE 30	michael.catterson@swosu.edu	(580) 774-3073
J. Rickey	HPE 107	jody.rickey@swosu.edu	(580) 774-3072
E. Paul	SCI 303.....	eric.paul@swosu.edu	(580) 774-3228
M. Prichard	SCI 202B	marion.prichard@swosu.edu	(580) 774-3287
T. Stubbs.....	SCI 202C	teri.stubbs@swosu.edu	(580) 774-3067
A. Thomson.....	SCI 104D.....	audrey.thomson@swosu.edu	(580) 774-7149
J. Young.....	HPE 41A	jessica.young@swosu.edu	(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 CAATE, 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 patients. 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 patients 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 the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

Clinical Laboratory Scientists

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:

Clinical Laboratory Science	Nutritional Sciences
College of Dentistry	Occupational Therapy
Communication Sci. & Disorders	Optometry
Dental Hygiene	Physical Therapy
Health Info. Management	Physician Associate
Medical School	Radiologic Technology

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.

Radiologic 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

Michael Catterson, Program Director; ATEP, Head Athletic Trainer
Health and Physical Education Building, Room 30
Phone: (580) 774-3073
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J. Rickey HPE 107.....jody.rickey@swosu.edu(580) 774-3072
J. Young..... HPE 41A.....jessica.young@swosu.edu(580) 774-3186

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 CAATE-accredited degree program, pass the National Athletic Trainers' Association Board of Certification (BOC) 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 Athletic Training Education (CAATE).

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 April 1st. Admission to SWOSU and meeting minimum requirements does not guarantee admission to the professional phase of the Athletic Training Education 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 courses¹:

ATEP	1922	Introduction to Athletic Training
ATEP	2433	Athl Training Care and Prevention/Lab
ATEP	2531	Directed Observation in AT
ATEP	2633	Cardiac and Emergency Care
ATEP	3723	Advanced Athletic Training
ATEP	4433	AT Modalities/Lab
PSYCH	1003	General Psychology
ALHLT	2442	Medical Terminology
ALHLT	1401	Allied Health Careers
KINES	1133	Wellness Concepts/Lab
KINES	1153	Nutrition
KINES	3443	Kinesiology and Anatomy
BIOL	1004	Biological Concepts/Lab
BIOL	3704	Human Anatomy w/Lab

3. Arrange and complete 50 observation hours of SWOSU Clinical Instructors in conjunction with ATEP 2531 Directed Observation in the semester prior to or the semester of application.

4. Submit to Student Health Center: medical history, MMR vaccination records, TB testing records (within previous year), and HBV vaccination records (or declination statement).

5. Obtain personal criminal history information from the Oklahoma State Bureau of Investigation (fee required). Information and form can be found at <http://www.osbi.state.ok.us/PublicServices/CriminalHistory.htm>. Consistent with clinical affiliation agreements, any person who has been convicted of a felony is not eligible for admission to the ATEP.

6. Submit to ATEP Director: All application materials, including technical standards signed by applicant and designated physician, criminal history record information, proof of current Professional Rescuer and AED Certification (or equivalent), and current official transcripts.

¹ Transfer students must have completed 15 hours at SWOSU or recognized articulating institution. All courses must be completed prior to August 1st following application..

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.

An 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 mandatory field/clinical experience and practical application of skills begins 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 CAATE Standards and Guidelines, a minimum of two academic years of clinical experience associated with course credit is obtained.

Following professional program admittance, enrollment in ATEP 3733 Practicum in Assessment during the fall semester and ATEP 3753 Practicum in Therapeutic Intervention (concurrent enrollment in ATEP 3743 Athletic Training Rehabilitation/Lab) during the spring semester allows the student to apply knowledge in the clinical setting. 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 continued application of athletic training

techniques and skills. National Athletic Trainers' Association Educational competencies and Clinical Proficiencies are addressed throughout the curriculum. Student clinical education will occur in a variety of athletic training settings including collegiate, secondary, clinic, hospital, industrial, and rehabilitational facilities.

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, criminal history background checks, 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 for Athletic Trainers, 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 or suspended from the professional program.

CAREERS IN ATHLETIC TRAINING

Following graduation and attainment of NATABOC certification and proper state licensure, the athletic trainer may practice in a variety of settings. These include but are not limited to secondary schools, colleges and universities, professional athletics, 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
KINES 1133 Wellness Concepts & Exercise
Applications

Athletic Training Major

Code No. 167

Required courses.....48

ATEP 1922 Introduction to Athletic Training
ATEP 2433 Athletic Training Care and Prevention/Lab
ATEP 2531 Directed Observation in AT
ATEP 2633 Cardiac & Emergency Care
ATEP 3723 Advanced Athletic Training
ATEP 3733 Practicum in Assessment of Injury
ATEP 3743 AT Rehabilitation and Reconditioning/Lab
ATEP 3753 Practicum in Therapeutic Intervention
ATEP 4323 Athletic Training Pharmacology
ATEP 4344 A T Eval of Ortho Inj w/Lab
ATEP 4433 Athletic Training Modalities w/Lab
ATEP 4722 Administrative Issues in AT
ATEP 4813 Application of Athletic Training I
ATEP 4823 Application of Athletic Training II
KINES 1153 Nutrition
KINES 3443 Kinesiology and Anatomy
KINES 4233 Exercise Physiology

Required Allied Health Minor Courses.....23

ALHLT 1401 Allied Health Careers
BIOL 3704 Human Anatomy w/Lab
BIOL 3904 Human Physiology w/Lab
OR BIOL 2714 Human Anatomy / Human Phys w/lab
ALHLT 2442 Medical Terminology
ALHLT 3043 Health Statistics w/Lab
ALHLT 3193 Health Care Delivery
ALHLT 3933 Management of Health Institutions
ALHLT 3963 Health Care Administration
OR ALHLT 4043 Medicolegal Concepts

FREE ELECTIVES.....5-6

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(15 of the last 30).....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. Psychology3	2433 AT Care & Prev/Lab 3	2633 Cardiac & Emer Care..... 3
1004 Biological Concepts 4	1153 Nutrition3	2442 Med Terminology.....2	3704 Human Anat w/Lab..... 4
1133 Wellness Concepts 3	1401 Allied Health Careers1	2531 Directed Obs in AT 1	3723 Advanced Ath Train..... 3
1922 Intro to Athl Train 2	Gen Educ Crses9	3443 Kinesio & Anatomy 3	4433 Ath Train Modal/Lab 3
Gen Educ Crses..... 6		Gen Educ Crses..... 6	Gen Educ Crses 3
		English Proficiency Exam***	
Total 16	Total 16	Total 15	Total 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3193 Health Care Delivery 3	3043 Health Stats w/Lab3	3963 Healthcare Adm	4823 App of Ath Train II..... 3
3733 Practicum in Assess..... 3	3743 Ath Train Rehab/Lab3	or 4043 Medicolegal Conc.....3	Free Electives 5-6
4233 Exercise Physiology 3	3753 Practicum Ther Interv3	4323 Ath Train Pharm..... 3	Gen Educ Crses 3
4344 AT Eval of Ortho Inj/Lab... 4	3904 Human Phys w/ Lab	4722 Adm Iss in Ath Train.....2	
Gen Educ Crses..... 3	or 2714 Human A&P/Lab4	4813 App of Ath Train I.....3	
	3933 Mgmt of Health Instit3	Gen Educ Crses..... 3	
Total 16	Total 16	Total 14	Total 11-12

* 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
KINES 1133 Wellness Concepts & Exercise
Applications

Health Care Administration Services Major Code No. 550

Required Courses 48

Major Courses

ALHLT 1401 Allied Health Careers
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
BIOL 2714 Human Anatomy & Physiology
OR BIOL 3704 Human Anatomy
OR ALHLT 3053 Advanced Medical Terminology
AND ALHLT 3072 Applied Medical Vocabulary
OR ALHLT 3072 Applied Medical Vocabulary
AND MEDRC 3023 Health Information System w/Lab

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
MIFOS 3113 Intro to MIS 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 (15 of the last 30)..... 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:

- To provide the academic foundation necessary to ensure that graduates are able to successfully perform the *Entry Level Competencies* of the HIM profession as periodically defined by nationally accepted standards of practitioner roles and functions.
- To provide a quality program in Health Information Management supported by a comprehensive curriculum based on continuous assessment, modification, and reanalysis.
- To employ and foster the development of faculty who demonstrates competence in current and emerging HIM professional practice particularly related to areas of instructional responsibility.
- To monitor and be receptive to 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 for Health Informatics and Information Management Education (CAHIIM). Accreditation ensures that graduates will be eligible to take the National Registration Examination for the Registered Health Information Administrator (RHIA).

ADMISSION REQUIREMENTS

Any student may declare their major as Health Information Management and enroll in the pre-professional curriculum. This curriculum consists of 67-68 hours including courses which meet the general education requirements of the University. When most of these pre-professional courses are completed, students may apply for admission into the professional Health Information Management Program, 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. Students in Health Information Management will complete a minor in Health Care Administration.

Applicants to the HIM Program must possess the following general qualities: critical thinking, sound judgment, emotional stability and maturity, empathy, physical and mental stamina, and the ability to learn and function in a wide variety of didactic and clinical settings. Graduates of the HIM Program must have the minimal skills, essential functions, and knowledge to function in a broad variety of clinical settings.

Students in the HIM Program must have the following minimum abilities:

- 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 4253-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, current physical examination and immunizations, and completion of an FBI check 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

Composition6

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 Sciences8

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 & Government6

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 Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
_____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise
Applications

Health Information Management Major

Code No. 551

Professional Courses.....36

MEDRC 3023 Health Information Systems
MEDRC 3033 Introduction to Health Information
ALHLT 3053 Advanced Medical Terminology
ALHLT 3072 Applied Medical Vocabulary
MEDRC 3333 Coding I
MEDRC 3343 Coding II
MEDRC 3352 Intro to Reimb and Classifi Systems
MEDRC 4023 Health Information Application
MEDRC 4033 Health Information Management
MEDRC 4051 Clinical Practice (X 2)
MEDRC 4153 Management Practicum
ALHLT 4074 Pathophysiology
MEDRC 4082 HIM Professional Review

Ancillary Courses.....26

GEBUS 3923 Advanced Computer Business Applic
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
BIOL 2714 Human Anatomy/Physiology*

Health Care Administration Minor.....18

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
ALHLT 3043 Health Statistics w/Lab
MEDRC 4112 Quality Improvement

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 graduation123-124

Minimum credit hours in the liberal arts & sciences55

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

Minimum credit hours (3000/4000 courses) in major
completed at SWOSU8

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

Minimum Grade Point Average in all coursework.....2.25

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 w/Lab .. 4	1004 General Chemistry w/Lab..4	1063 U.S. History3	1103 American Government..... 3
1113 English Comp I3	1022 Comp/Info Access2	3193 Health Care Delivery.....3	1313 Intro to Public Speak..... 3
1513 College Algebra3	1213 English Comp II3	4355 Microbiology.....5	2714 Anatomy & Phys w/Lab.... 4
Gen Educ Crse6	2213 Prin. Of Acctg. I3	Gen Educ Crse.6	3333 Human Res Mgmt..... 3
Freshman Orientation..... 1	2442 Medical Terminology2	English Proficiency Exam***	3423 Business Comm 3
	Gen Educ Crse.....3		
Total..... 17	Total17	Total..... 17	Total 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER**	FIRST SEMESTER	SECOND SEMESTER
3033 Intro to Health Info.....3	3043 Health Statisticsw/Lab.....3	3023 Health Info Systems3	3343 Coding II..... 3
3053 Adv Med Term3	3072 Applied Med Vocab.....2	3333 Coding I3	3971 Allied Health Internship** 1
3923 Adv Comp Busin App3	3352 Intro Reimb/Class Sys2	4023 Health Info Applic w/Lab..3	4033 Health Info Mgmt wLab ... 3
3933 Management HC Inst3	3963 Health Care Admin.....3	4051 Clinical Practice 1	4082 HIM Prof Review..... 2
4043 Medicolegal Concepts3	4051 Clinical Practice.....1	4093 Epidemiology3	4153 Mgmt Practicum 3
	4074 Pathophysiology4	4112 Quality Improvement2	
Total..... 15	Total15	Total..... 15	Total 12

* 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

CLINICAL LABORATORY SCIENCE

FACULTY

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PROGRAM GOALS

The Clinical Laboratory Science (Medical Technology) Program at Southwestern Oklahoma State University is designed to provide a Bachelor of Science degree in Clinical Laboratory Science. 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 Clinical Laboratory Science ("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 Clinical Laboratory Science plus the B.S. Degree in Clinical Laboratory Science (Medical Technology) ("4 + 1 Program") - This five-year program involves completing a B.S. Degree in Health Sciences for Clinical Laboratory Science majors and then completing the one year of clinical training (30 credit hours) at an accredited hospital for a B.S. Degree in Clinical Laboratory Science.

THE CLINICAL PRACTICUM

The clinical practicum is provided for SWOSU students by the hospitals listed below.

Comanche County Memorial Hospital..... Lawton, OK
Muskogee Regional Medical CenterMuskogee, OK
St. Francis Hospital Tulsa, OK
Valley View Regional HospitalAda, 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 Clinical Laboratory Science 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
CLS 4117	Clinical Microbiology
CLS 4125	Clinical Chemistry I
CLS 4236	Clinical Hematology
CLS 4246	Clinical Immunology/Immunohematology
CLS 4325	Clinical Chemistry II
CLS 4351	Topics in Clinical Laboratory Science

*Clinical Practicum must be performed at an accredited hospital affiliate.

GENERAL INFORMATION

THE PROFESSION

A 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 clinical laboratory scientists 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 clinical laboratory science students have gone on to pursue M.D. and Ph.D. degrees.

ACCREDITATION

The Bachelor of Science degree in Clinical Laboratory Science 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 Clinical Laboratory Scientist.

BACHELOR OF SCIENCE 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
KINES 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 120-122

Minimum credit hours in the liberal arts & sciences 55

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

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

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

Minimum Grade Point Average in all coursework 2.25

Minimum Grade Point Average in major 2.25

Clinical Laboratory Science

Code No. 552

Required Courses..... 16

ALHLT 4213 Immunology
ALHLT 4355 Microbiology
BIOL 3704 Human Anatomy
BIOL 3904 Human Physiology

Electives..... 13-14

Suggested Electives

*BIOL 3254 Genetics
*ALHLT 3043 Health Statistics
*ALHLT 4404 Pathogenic Microbiology
*ALHLT 3193 Health Care Delivery
ALHLT 3933 Management of Health Care Inst
ALHLT 3963 Health Care Administration
ALHLT 4074 Pathophysiology
ALHLT 4093 Epidemiology
ALHLT 4313 Medical Parasitology
ALHLT 4453 Virology
ALHLT 4523 Environmental Microbiology
*Recommended electives

Other Electives

ALHLT 1401 Allied Health Careers
ALHLT 2442 Medical Terminology
ALHLT 3972 Allied Health Internship
ALHLT 4043 Medicolegal Concepts
ALHLT 4802 History of Medicine
ALHLT 4872 Hominology
BIOL 4284 Animal Parasitology
BIOL 4933 Cell Physiology

Minor: Chemistry Total 18

CHEM 1203 General Chemistry I (lecture)
CHEM 1252 General Chemistry I (lab)
CHEM 1303 General Chemistry II (lecture)
CHEM 1352 General Chemistry II (lab)
CHEM 3013 Organic Chemistry I (lecture)
CHEM 3111 Organic Chemistry I (lab)
CHEM 4113 Organic Chemistry II (lecture)
CHEM 4021 Organic Chemistry II (lab)

May be taken instead of Org. Chem. I and II:

CHEM 2114 Organic/Biochem. (w/lab)
CHEM 3124 Quant. Analysis (w/lab)

OR

CHEM 2114 Organic/Biochem. (w/lab)
CHEM 4124 Biochemistry (w/lab)

Clinical (must be performed at an accredited

hospital affiliate) 30

CLS 4117 Clinical Microbiology
CLS 4125 Clinical Chemistry I
CLS 4236 Clinical Hematology
CLS 4246 Clinical Immunology
CLS 4325 Clinical Chemistry II
CLS 4351 Topics in Clinical Laboratory Science

Total 120-122

BACHELOR OF SCIENCE HEALTH SCIENCE MAJOR FOR CLINICAL LABORATORY SCIENCE (4+1)

(Includes all Pre-Clinical Laboratory Science 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
KINES 1133 Wellness Concepts & Exercise
Applications

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 131-136

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

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

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

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

Minimum Grade Point Average in all coursework2.25

Minimum Grade Point Average in major2.25

Dual Degree

Health Science Major – Code No. 553

Clinical Laboratory Science – Code No. 552

Required Courses..... 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

Electives..... 7-11

ALHLT 1401 Allied Health Careers
ALHLT 2442 Medical Terminology
****ALHLT 3043 Health Statistics**
ALHLT 4074 Pathophysiology
ALHLT 4313 Medical Parasitology
****ALHLT 4404 Pathogenic Microbiology**
ALHLT 4453 Virology
ALHLT 4523 Environmental Microbiology
ALHLT 4802 History of Medicine
ALHLT 4872 Hominology
****BIOL 3254 Genetics**
BIOL 4284 Animal Parasitology
BIOL 4933 Cell Physiology

**Suggested elective for admission to medical technology program and/or completion of degree

Minor: Chemistry Total..... 18

CHEM 1203 General Chemistry I (lecture)
CHEM 1252 General Chemistry I (lab)
CHEM 1303 General Chemistry II (lecture)
CHEM 1352 General Chemistry II (lab)
CHEM 3013 Organic Chemistry I (lecture)
CHEM 3111 Organic Chemistry I (lab)
CHEM 4113 Organic Chemistry II (lecture)
CHEM 4021 Organic Chemistry II (lab)

May be taken instead of Org. Chem. I and II:

CHEM 2114 Organic/Biochem. (w/lab)
CHEM 3124 Quant. Analysis (w/lab)

OR

CHEM 2114 Organic/Biochem. (w/lab)
CHEM 4124 Biochemistry (w/lab)

Clinical (must be performed at an accredited

hospital affiliate) 30

CLS 4117 Clinical Microbiology
CLS 4125 Clinical Chemistry I
CLS 4236 Clinical Hematology
CLS 4246 Clinical Immunology
CLS 4325 Clinical Chemistry II
CLS 4351 Topics in Clinical Laboratory Science

Total 131-136

SCHOOL OF ALLIED HEALTH SCIENCES

HEALTH SCIENCES

FACULTY

Gary Wolgamott, Associate Dean

Science Building, Room 206

Phone: (580) 774-3079

E-mail: gary.wolgamott@swosu.edu

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

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A. Thomson	SCI 104D	audrey.thomson@swosu.edu	(580) 774-7149

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, Clinical Laboratory Science, 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

Doctorate level in Physical Therapy (6 - 7 years)

Occupational Therapy

Associate of Applied Science
in Occupational Therapy Asst. (2.25 years)

OR

Master or Doctorate 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
KINES 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 Courses..... 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 3093 Dietetics in Health and Illness
ALHLT 4074 Pathophysiology
ALHLT 4213 Immunology
ALHLT 4313 Medical Parasitology
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 (15 of the last 30) 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. Chad Kinder, Associate Dean

EDUCATION

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

Early Childhood – B.S.Ed.
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

KINESIOLOGY

See Elementary-Secondary Programs
Exercise Science – B.S.

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

FACULTY

Dennis Gentry, Chair
Education Building, Room 101
Phone: (580) 774-3285
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PROFESSIONAL REQUIREMENTS

The principal purpose of the Department of Education is to provide the necessary background in professional education for the development of competencies which will contribute to successful teaching, administration, and supervision in the elementary and secondary schools. The Department of Education provides students with appropriate experiences in teaching, human growth and development, educational psychology, content, methods and materials, and directed observation and field practicum. Prospective teachers are required to participate in observation and student teaching in cooperating public schools.

As a result of state legislative actions, changes in state certification requirements, and/or changes in requirements at SWOSU, there may be additional entrance and exit standards throughout the teacher education programs.

ADMISSION TO THE DEPARTMENT OF EDUCATION

A student must apply for admission to the program in the Department of Education Chair's office. **Normally, this is accomplished in the sophomore year concurrently with enrollment in Foundations of Education.** A student is permitted to take professional education and methods courses including elementary specialized courses only after being admitted to the Department of Education. **Transfer students may request a one-semester temporary permit to enroll in restricted courses provided they have at least a 2.50 overall grade point average.**

Admission to the Department of Education is by approval of the Admission and Retention Committee. A student, to be approved, must meet the following requirements:

1. Complete appropriate admission forms and portfolio and submit them to the **chair** of the

Elementary/Secondary Education department. Applicants must include a current transcript.

2. **Achieve an overall grade point average of not less than 2.50 in all work attempted.**
3. **Successful interview with the Teacher Education Admission Committee.**
4. Provide evidence of adequate reading, writing, and verbal communication skills as demonstrated by appropriate coursework.
5. Passage of the Oklahoma General Education Test (OGET) is required.
6. Completion of at least 30 semester hours.
7. Complete the two three-hour credit courses ENGL 1113 and ENGL 1213 with a **minimum grade of C in each course.**
8. Demonstrate expressed interest in teaching by prior experience and activities.
9. Complete EDUC 2113 Foundations of Education (including 30 hours of public school observation) with a minimum grade of C.
10. Completion of Portfolio Level 1 and Level 2.
11. Completion of Criminal History Disclosure Statement.
12. Completion of Plan of Study/Advisor Recommendation with signature of student and advisor.

Permission to enroll in restricted courses, e.g., Professional Education and identified subject content methods courses, requires formal admission to the Department of Education or a special enrollment status granted by the Department of Education Chair.

If an applicant is denied admission, re-application can be made upon removal of deficiencies. All appeals are initiated by the student and are forwarded to the Department of Education Chair's Office for presentation to the Admission/Retention Committee. In

order to continue in a teacher education program, a student must maintain a standard equal to that which permitted admission. The Department of Education monitors each student on a semester basis from the point of admission according to previously stated criteria. Those students who fail to maintain standards which permitted admission are informed through written correspondence from the chair, admission and retention, regarding options at their disposal, e.g., probation and/or suspension.

ADMISSION TO THE PROFESSIONAL SEMESTER

(Includes the four-week block and twelve-week student teaching experience).

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

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

1. Apply by completing the Application for the Professional Semester and Student Teaching Experience application. This form is available from the Coordinator of Field Experiences and must be signed by the student's advisor and specified department chairman.
2. Currently be a student in good standing and admitted to the Department of Education.
3. Completion of the pre-professional sequence in the Department of Education.
4. **Completion of at least three-quarters of the major, including the methods course in the major (Secondary only).**
5. **Achieve an overall grade point average of not less than 2.50 in all work attempted.**
6. Completion of the Level I, Level II and Level III Portfolio. (Information on portfolios is available in the office of Student Teaching and Field Experiences.).
7. Three requests for student teaching placement that do not include sites where the student has graduated or has relatives on the staff at the school. Proximity of the requested site to the University will be a principal consideration.
8. The student must meet the requirements of the cooperating school and SWOSU. Each student teacher is required to purchase a Student Teacher Notebook, which contains the requirements for student teaching, criteria for evaluation, areas of expected performance, and portfolio requirements.

ADMISSION TO THE TEACHING PROFESSION

Admission to the teaching profession is achieved through application and qualification for teacher licensing. All initial applications for teacher licensing are obtained from the Certification Analyst in the Department of Education after successful completion of the state examinations and are to be filled out during the last semester prior to receiving the bachelor's degree. The completed application is to be filed with the Certification Analyst who will forward it to the State Department of Education after the Teacher Education Program has been completed and the bachelor's degree awarded. The Certification Analyst must approve and sign all license and/or certification applications. The applicant must have the following:

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

PROGRAMS IN THE DEPARTMENT OF EDUCATION

The following programs reflect adherence by Southwestern Oklahoma State University to the certification standards of the Oklahoma State Board of Education and degree requirements as set forth by the Oklahoma State Regents for Higher Education. **These programs, presenting both certification as well as degree requirements, are categorized according to the level of certificate, i.e., Elementary (1-8); Elementary-Secondary (K-12); and Secondary (7-12).**

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

ELEMENTARY-SECONDARY PROGRAMS

PROGRAMS/COURSES OF STUDY

Majors: B.A.Ed. Art
B.S.Ed. HPE
B.M.Ed. Music Education
Instrumental/General Music
Vocal/General Music
B.S.Ed. 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
KINES 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

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 (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework 2.50

Art Education Major Code No. 701

Required Courses28

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 Area6

ART 3153 Figure Drawing
ART 3753 Life Drawing
*ART 4333 Studio Drawing

Approved Elective Painting Area3

*ART 3113 Watercolor Studio
*ART 4313 Painting Studio

Art History9

ART 3013 American Art History
ART 3613 History of Art I
ART 3653 History of Art II
ART 4353 Modern Art History
ART 4383 Art History Since 1945
ART 4393 Non-Western Art Survey

Approved Elective 3000 or 4000 level ART3

Total.....49

Professional Education Requirements38

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 Contemporary 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

* Denotes upper level studio classes repeatable twice for credit to fulfill requirements.

** SDE *Guidelines and Procedures Handbook for Certification*, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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 II3	1003 Gen Psychology 3	1004 Biological Conc 4
1022 Comp /Info Access2	1213 English Comp II3	1143 Foundations III 3	1103 World Cult Geog 3
1113 English Comp I.....3	2413 Intro to Literature3	2113 Acrylic Tech..... 3	2113 Foundations of Ed..... 3
1123 Foundations I.....3	4253 Applied Design3	3353 Clay Studio..... 3	3132 Exceptional Child*** 2
Art Hist (as offered).....3	Art Hist (as offered)3	Art Hist (as offered) 3	3413 Sculpture 3
Gen Educ Crse.....3	Gen Educ Crse3	Gen Educ Crse 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
2133 Intro. to Graph. Des. 3	1033 World History3	3423 Media and Tech..... 3	4651 Senior Exhibit..... 1
3213 Develop Psych*** 3	1063 US History3	3653 Educational Psych 3	Professional Semester..... 13
3483 Printmaking 3	1103 American Govt.....3	4813 Educ Tests & Meas 3	
4452 CMM Elem Art..... 2	4553 Teachers Crse Art.....3	4823 Prin of Teaching 3	
Gen Educ Crse..... 4	Studio Elective.....3	Studio Elective..... 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

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF SCIENCE IN EDUCATION HEALTH AND PHYSICAL EDUCATION

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
KINES 1133 **Wellness Concepts & Exercise Applications**

FOR INFORMATION CONTACT:

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Department of Kinesiology

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E-mail: 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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.50

Health and Physical Education Major

Code No. 709

Required Courses 28

KINES 1932 Tech as Appl to Gym, Fitness, & Aqua
KINES 1942 Tech as Applied to Individual Sports
KINES 1952 Techniques as Applied to Team Sports
KINES 2222 Foundations of HPER
KINES 2242 Sports Officiating
KINES 2212 First Aid
KINES 2502 Care and Prevention of Athletic Injuries
KINES 3133 Teaching Health in the Public Schools
KINES 3443 Kinesiology and Anatomy
KINES 4233 Exercise Physiology
KINES 4243 Therapeutic & Prescriptive Phys Educ
KINES 4262 Motor Learning

Electives 9

(Selected courses from those listed below)

KINES 1153 Nutrition
PRM 4163 Community Recreation
KINES 4052 Sociology of Sports
KINES 4063 Legal Aspects in PE, Rec, & Athletics
KINES 4073 Evaluation in Physical Education
KINES 4113 Organization & Admin of HPER
KINES 4122 Organization & Admin of Athletics
KINES 4333 Principles and History of H & PE
KINES 4353 Motor Development
KINES Theory of Coaching –KINES 4802 Football,
KINES 4832 Basketball, KINES 4842 Women's
Basketball, KINES 4862 Baseball, KINES 4892 Track
and Minor Sports
KINES 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
KINES 3553 Methods & Materials Elem HPER
KINES 4553 Teacher's Course in H&PE
KINES 4541 Capstone Experience HPE

Professional Semester

EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemporary 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

* SDE *Guidelines and Procedures Handbook for Certification*, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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 Psychology3	1004 Biological Conc.....4	1932 Tch Ap Gym, Ft Aq2
1022 Comp Info Access..... 2	1033 World History3	1103 American Govt3	1942 Tech App to Ind Spts2
1063 US History 3	1213 English Comp II3	2222 Foundations HPER.....2	2242 Sports Officiating..... 2
1113 English Comp I 3	2212 First Aid2	2413 Intro to Lit3	Gen Educ Crse 3
1133 Wellness Concept 3	Gen Educ Crse3	Major Elective.....3	Gen Educ Crse4
Gen Educ Crse..... 3	P. E. Activity.....2	English Proficiency Exam**	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 Sch3	3423 Media & Tech3	3321 Multi/Spec Pop 1
2113 Foundations of Educ 3	3553 M & M Elem PE3	3453 or 3653 Edu Psych3	4021 Contemp Issues in Ed.... 1
2502 Care & Prev Ath Inj..... 2	3213 Develop Psych***3	4541 Capstone.....1	4041 Classroom Mgmt..... 1
3132 Excep Children*** 2	4233 Exer Physiology	4553 Tchrs Crse H&PE.....3	4765 St Teaching in Elem.....5
4233 Exercise Physiology	or 3443 Kines & Antmy.....3	4613 or 4813 Ed Test/Meas3	4965 St Teaching in Sec5
or 3443 Kines & Antmy 3	4262 Motor Learning2	4833 Pr Tch El	
4243 Ther/Prec Phys Ed 3	Major Elective.....2	or 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.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF MUSIC EDUCATION

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
KINES 1133 Wellness Concepts & Exercise
Applications

FOR INFORMATION CONTACT:

Dr. Terry Segress, Chair

Department of Music

Phone: (580) 774-3175

E-mail: terry.segrees@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 (15 of the last 30) 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 World Music
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 Attendance (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 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4765 Student Teaching in the Elem School
SECED 4965 Student Teaching in the Sec School

Total hours for degree 139

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program

BACHELOR OF MUSIC EDUCATION

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
KINES 1133 Wellness Concepts & Exercise
Applications

FOR INFORMATION CONTACT:

Dr. Terry Segress, Chair

Music Department

Phone: (580) 774-3175

E-mail: 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 (15 of the last 30)..... 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 World Music
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 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4765 Student Teaching in the Elem School
SECED 4965 Student Teaching in the Sec School

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program

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 to World Music 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 Contemp 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.

**** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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 to World Music 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 Contemp 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	4075 Sdt Tchng Sec Schl 5
Gen Educ Crses 7	Principal Applied 2	Principal Applied 2	4765 Sdt Tchng Elem 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.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF SCIENCE IN EDUCATION

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 1433 Structural Concepts in Arithmetic should be taken to satisfy the Mathematics component of the General Education Program.**

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
KINES 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 22

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
RDNG 4443 Diagnostic Prac in Tch Reading

Specialization 28

SPCED 3213 Intro to Mild/Moderate
SPCED 3313 Intro to S/P & M Disab
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 4362 Legal and Ethical Prac in Spec Educ
ECED 4163 Perceptual Dev in Infants/Toddlers
SPCED 3433 Assess of Exceptional Individuals
SPCED 4863 Planning/Manag the Tchng Environ
SPCED 4811 Practicum - Sev/Prof & Mult Disab
SPCED 4821 Practicum - Mild/Mod Disabilities

Professional Education Requirements 31

Certificate/Foundations Courses

EDUC 2113 Foundations of Education
***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 Contemp 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..... 124

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation..... 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division
(3000/4000 courses) 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU 8
Minimum credit hours at SWOSU (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework 2.50

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	1004 Biological Conc 4
1022 Comp & Info Access 2	1103 Amer Govt & Pol 3	1443 Struct Conc Math 3	1103 World Cult Geog 3
1033 World History 3	1213 English Comp II 3	2113 Found of Educ 3	3213 Develop Psych*** 3
1113 English Comp I 3	1433 Struct Conc Arithmetic ... 3	3423 Media & Tech 3	3213 Intro to Mild/Moderate ... 3
1313 Intro to Public Spk 3	2413 Intro to Lit 3	Gen Educ Crse 3	3423 Tch Reading 1 3
Gen Educ & Science Crse 4		English Proficiency Exam**	4811 Practicum 1
Total: 16	Total: 15	Total: 15	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1503 Alg Elem Tchrs 3	2133 Geom Elem Tchr 3	3433 Assess Except Child 3	3321 Multicul/Spec Prob 1
3453/3653 Educ Psych 3	3314 Geol Sci Elem Tchr 4	4223 Det & Corr Spec Prob 3	4021 Contemporary Issues 1
4463 Children's Lit 3	4163 Perc Dev Inf & Todl 3	4613 Inst Cont/Prac S/P 3	4041 Classrm Mngmt 1
4613/4813 Ed Tst/Meas 3	4443 Diag Prac in Tch Rdng 3	4623 Inst Cont/Prac M/M 3	4665 Student Tchng Elem 5
4762 Legal & Eth Prac 2	4863 Plan & Mng Tch Env 3	4812 Practicum 1	4765 Student Tchng Sec 5
Gen Educ Crse 3		4833/4823 Prin Tch El/Sec 3	
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.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

ELEMENTARY PROGRAMS

ELEMENTARY EDUCATION

GOALS

After completing the Elementary Program, the candidate will be able to:

1. Identify, illustrate, and utilize sound principles of teaching.
2. Exhibit a depth of knowledge in communications in the behavioral aspects of man and society, world cultures, social issues and trends, scientific discovery, creative arts, and appreciation of the arts.
3. Demonstrate humanistic qualities of empathy, flexibility, and individual concern toward all students in clarifying their values.
4. Interpret data about students' social, emotional, intellectual, and cultural environments.
5. Utilize current trends in developing the learning environment conducive to self-discipline.
6. Practice professional ethics.
7. Develop objectives in all areas of the curriculum.

PROGRAMS OF STUDY

Majors: B.S.Ed. Early Childhood Education
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

EARLY CHILDHOOD EDUCATION

GENERAL EDUCATION

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

REQUIRED HOURS43 - 44*

Composition.....6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics**3

**** MATH 1433 Structural Concepts in Arithmetic should be taken to satisfy the Mathematics component of the General Education Program.**

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 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 & Government6

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 Studies6-7

PSYCH 1003 **General Psychology**
SOCIO 1003 Introduction to Sociology
____4 World Languages
TECH 1123 Technology and Society
KINES 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:

Dr. Dennis Gentry
Department of Education
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Early Childhood Education Major Code No. 703

Required Courses..... 49

MATH 1443 Structural Concepts in Mathematics
MATH 1503 Algebra for Elementary Teachers
MATH 2133 Geometry for Elementary Teachers
GEOL 1934 Physical Geology
KINES 1153 Nutrition
RDNG 3423 Teaching Reading I
RDNG 3432 Teaching Reading II
ECED 4163 Perceptual Dev Infants/Toddlers
ELEM 4222 Phonics and Penmanship
ECED 4423 Play Methods & Materials
RDNG 4443 Diagnostic Prac in Teaching Reading
ECED 4463 The Expressive Arts
LIT 4463 Children's Literature
ECED 4483 Exploring the Child's World
ECED 4533 Guidance for the Preschool Child
ECED 4533L Guid for the Preschool Child Lab
PSYCH 4533 Language Development
ECED 4612 Practicum in Early Childhood
ECED 4612L Practicum in Early Childhood Lab

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 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4665 Student Teaching in the Elem School
ELEM 4765 Student Teaching in the Elem School

Total hours for degree.....125

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....125
Minimum credit hours in the liberal arts & sciences..... 55
Minimum credit hours in upper-division
(3000/4000 courses) 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU..... 8
Minimum credit hours at SWOSU (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework.....2.50

EARLY CHILDHOOD EDUCATION (CODE 703)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1103 Amer Govt & Pol3	1033 World History3	2413 Intro to Lit..... 3
1003 Gen Psych..... 3	1103 World Cult Geog3	1443 Struct Conc Math3	3132 Excep Child****2
1022 Comp/Info Access 2	1213 English Comp II3	2113 Found of Educ.....3	1153 Nutrition..... 3
1063 U. S. History 3	1433 Struct Conc Arithmetic.....3	4423 Play Methods & Mat3	3423 Tch Reading I (1)..... 3
1113 English Comp I..... 3	1514 Concepts Phys Science	1004 Biological Concepts4	3423 Media & Technology3
1313 Intro to Public Spk..... 3	OR 1904 Astronomy	English Proficiency Exam**	4533 Language Develop 3
	OR 1004 Gen Chem.....4		
Total: 15	Total: 16	Total: 16	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1503 Algebra Elem Tchr 3	2133 Geom Elem Tchrs.....3	3314 Geol Sci Elem Tchr4	3321 Multicul/Spec Pop 1
3413 Child Psychology**** ... 3	4163 Perceptual Develop.....3	3453 Educ Psych (Elem)3	4021 Contemporary Issues 1
3432 Tchng Reading II (2) ... 2	4443 Diag Practices (3).....3	4612 Pract Early Child***2	4041 Classrm Mngmt..... 1
4222 Phonics & Penmshp..... 2	4483 Explore Child's World.....3	4613 Educ Tests & Meas.....3	4665 Student Tchng Elem.....5
4463 Expressive Arts..... 3	4533 Guide Preschool Child.....3	4833 Prin Tch Elem.....3	4765 Student Tchng Elem.....5
4463 Children's Lit..... 3	___3 Beh/Soc/Cult Studies... 3-4		
Total: 16	Total: 18-19	Total: 15	Total: 13

Bold lettering designates restricted courses.

The numbers 1, 2, and 3 designate the recommended order for taking reading courses.

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** Other Early Childhood courses are prerequisites.

**** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program

BACHELOR OF SCIENCE IN EDUCATION ELEMENTARY EDUCATION

GENERAL EDUCATION

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

REQUIRED HOURS43 - 44*

Composition..... 6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics** 3

**** MATH 1433 Structural Concepts in Arithmetic should be taken to satisfy the Mathematics component of the General Education Program.**

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
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
KINES 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
GEOL 1934 Physical Geology
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 Contemporary Issues in Education
EDUC 4041 Classroom Management
ELEM 4665 Student Teaching in the Elem School
ELEM 4765 Student Teaching in the Elem School

Electives to bring total to.....121

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation121
Minimum credit hours in the liberal arts & sciences..... 55
Minimum credit hours in upper-division
(3000/4000 courses) 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU..... 8
Minimum credit hours at SWOSU (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework.....2.50

ELEMENTARY EDUCATION (CODE 700)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1103 Amer Govt & Pol3	1033 World History3	2413 Intro to Lit..... 3
1003 Gen Psych..... 3	1103 World Cult Geog3	1443 Struct Conc Math3	3132 Excep Child***..... 2
1022 Comp/Info Access 2	1213 English Comp II3	2113 Found of Educ3	3202 Mus Meth/Elem Tchr.... 2
1063 U. S. History 3	1433 Struct Conc Arithmetic....3	1004 Biological Concepts4	3423 Tch Reading I (1) 3
1113 English Comp I..... 3	1514 Concepts Phys Science	___3 Beh/Soc/Cult Studies.....3	3513 CMM Math Elem..... 3
1313 Intro to Public Spk..... 3	OR 1904 Astronomy	English Proficiency Exam**	3522 CMM Soc St Elem..... 2
	OR 1004 Gen Chem.....4		
Total: 15	Total: 16	Total: 16	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1503 Algebra Elem Tchr 3	2133 Geom Elem Tchrs.....3	3423 Media & Tech3	3321 Multicul/Spec Pop 1
3413 Child Psychology***..... 3	1934 Physical Geology.....4	3453 Educ Psych..... 3	4021 Contemporary Issues 1
3432 Tchng Reading II (2) ... 2	4443 Diag Practices (3).....3	4352 Tchng Sci Elem Sch.....2	4041 Classrm Mngmt..... 1
3453 Lang Arts Elem..... 3	4452 CMM Elem Sch Art2	4613 Educ Tests & Meas.....3	4665 Student Tchng Elem.....5
3553 M&M in HPE..... 3	4463 Children's Literature3	4833 Prin Tch Elem.....3	4765 Student Tchng Elem.....5
4222 Phonics & Penmshp..... 2			
Total: 16	Total: 15	Total: 14	Total: 13

Bold lettering designates restricted courses.

The numbers 1, 2, and 3 designate the recommended order for taking reading courses.

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

SECONDARY EDUCATION

GOALS

The objectives for secondary education professional methodology are as follows:

1. Demonstrate effective techniques of communication.
2. Exhibit critical, logical, and rational decision making, individual awareness, and positive self-concept.
3. Possess knowledge of subject content and demonstrate relevant teaching techniques or delivery of such content.
4. Organize and implement modules and evaluate the modular system of instruction.
5. Evaluate and predict adolescent behavior and incorporate effective procedures of prevention and remediation of disciplinary problems.
6. Employ a variety of creative learning activities.
7. Demonstrate personal qualities conducive to a psychologically healthy classroom.
8. Select, administer, record, and interpret scores.
9. Exhibit an awareness of the social, emotional, mental, intellectual, and cultural environment of each student.

PROGRAMS OF STUDY

In the Department of Education at Southwestern Oklahoma State University, a student may choose majors in secondary education from English, history, mathematics, science, 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.S.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 HOURS43 - 44

Composition.....6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

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

Computer Applications.....2

COMSC 1022 Computers & Information Access

Natural Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, and Cultural Studies6-7

PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
4 World Languages
TECH 1123 Technology and Society
KINES 1133 Wellness Concepts & Exercise
Applications

FOR INFORMATION CONTACT:

Dr. Jill Jones, Chair
Department of Language Arts
Phone: (580) 774-3734
E-mail: jill.jones@swosu.edu

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....128
Minimum credit hours in the liberal arts & sciences80
Minimum credit hours in upper-division
(3000/4000 courses)40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8
Minimum credit hours at SWOSU (15 of the last 30).....30
Minimum Grade Point Average in all coursework..... 2.50

English Education Major Code No. 707

Required Courses33

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 3113 Modern World Literature
LIT 4113 Early World Literature

Guided Literature 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

Guided Writing Electives (select one).....3

ENGL 3473 Beginning Creative Writing of Fiction
ENGL 3483 Beginning Creative Writing of Poetry
ENGL 3553 Writing for the Workplace
ENGL 4453 Advanced Composition
ENGL 4553 Technical Writing & Editing
ENGL 4653 Writing for Multimedia
ENGL 4663 Creative Nonfiction

Free Elective (any course with a LIT/ENGL prefix).....3

Note: LIT 4463 Children's Literature does not count for credit in the English Education major.

World Language: a course beyond Elementary I 3-4

Total Hours required 45-46

Professional Education Requirements38

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 Contemporary Issues in Education
EDUC 4041 Classroom Management
SECED 4865 Student Teaching in the Sec School
SECED 4965 Student Teaching in the Sec School

Total hours for degree.....128

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

ENGLISH EDUCATION (CODE 707)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1004 Biol Concepts 4	3023 Literary Theory/Prac 3	2113 Foundations of Educ.....3
1113 English Comp I..... 3	1103 American Gov..... 3	4553 Issue in Amer Lit 3	3013 Writing Theory/Prac.....3
1333 Intro to Public Speak..... 3	1213 English Comp II..... 3	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 Pop1
3132 Exceptional Child*** 2	3433 Adolescent Psych*** 3	3653 Educ Psych (Sec) 3	4021 Contemp Issues in Educ ..1
3603 English Grammar 3	4993 The Novel..... 3	4675 Teach H.S.English 5	4041 Classroom Mgmnt1
4423 Intro to Linguistics..... 3	Free LIT/ENGL Electives..... 3	4813 Tests & Msrmnts (Sec) 3	4865 Std Teaching Sec5
4763 British Lit to 1800..... 3	Guided LIT Elective 3	4823 Prin Teaching Sec 3	4965 Std Teaching Sec5
Guided 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.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF ARTS IN EDUCATION HISTORY EDUCATION

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
KINES 1133 Wellness Concepts & Exercise
Applications

FOR INFORMATION CONTACT

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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 2603 Writing History
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)

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 Contemporary 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

* SDE Guidelines and Procedures Handbook for Certification,
page 3, and OK Regents for Higher Education Rule 11-2-24
state that courses classified as professional teacher education
must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120

Minimum credit hours in the liberal arts & sciences 80

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

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

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

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

HISTORY EDUCATION (CODE 730)
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	3132 Exceptional Child*** 2
1022 Comp/Info Access 2	1033 World History 3	1103 American Govt 3	Amer Hist 3
1063 US History 3	1103 World Cultural Geog 3	2113 Found in Educ 3	Gen Educ Crse..... 6
1113 English Comp I 3	1213 English Comp II..... 3	2413 Intro to Literature 3	World Hist..... 3
1143 Math Concepts 3	Gen Educ Crse..... 3	2603 Writing History..... 3	
Gen Educ Crse..... 3			
Total: 15	Total: 16	Total: 15	Total: 14

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3433 Adolescent Psych*** 3	3653 Educ Psychology 3	Pre-Professional Semester	Professional Semester
4093 Hist Rsch/Writing 3	4353 History of Oklahoma 3	3423 Media & Technology.... 3	3321 Multi-Cultrl/Spec Pop..... 1
4813 Educ Test/Meas (Sec). ... 3	4823 Princ of Tech Sec..... 3	4933 Teach Sec Social Sci..... 3	4021 Contemp Issues in Ed 1
Amer Hist 3	Amer Hist 3	Amer Hist 6	4041 Classroom Mgmt 1
World Hist 3	World Hist 3	Electives 1	4865 Student Teach Sec 5
		World Hist..... 3	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.

***SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF SCIENCE IN EDUCATION

MATHEMATICS EDUCATION

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

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
 KINES 1133 Wellness Concepts & Exercise
 Applications

***Waived due to major requirement**

FOR INFORMATION CONTACT:

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Department of Mathematics

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Mathematics Education Major

Code No. 716

Required Courses26-27

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 Contemp Issues in Education

EDUC 4041 Classroom Management

SECED 4865 Student Teaching in the Sec School

SECED 4965 Student Teaching in the Sec School

Electives to bring total to 120

* SDE Guidelines and Procedures Handbook for Certification,
 page 3, and OK Regents for Higher Education Rule 11-2-24
 state that courses classified as professional teacher education
 must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120

Minimum credit hours in the liberal arts & sciences 80

Minimum credit hours (3000/4000 courses)

in major completed at SWOSU 8

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

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

Students should work closely with their adviser to ensure that they take mathematics courses in the appropriate sequence. For example, taking a 1000 level mathematics course after successfully completing Calculus I is usually not recommended. Deviations from the appropriate sequence require departmental approval

MATHEMATICS EDUCATION (CODE 716)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient ¹1	1213 English Comp II.....3	2113 Found in Education3	3653 Linear Algebra 3
1113 English Comp I.....3	1834 Calculus I.....4	2834 Calculus II.....4	3834 Calculus III.....4
1513 College Algebra3	Gen Educ Crses9	Gen Educ Crses.....7	Gen Educ Crses.....9
1613 College Trigonometry or 1715 Col Alg/Trig*3-5		Required Math**3	
Gen Educ Crses.....5		English Proficiency Exam ²	
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	3132 Exceptional Child ³2	Pre-Professional Semester	Professional Semester
Computer Prog***3	3433 Adolescent Psych ³3	3423 Media & Tech3	3321 Multi-Cultrl/Spec Pop 1
Gen Educ Crses.....4	3713 College Geometry3	3653 Educ Psychology.....3	4021 Contemp Issues in Ed 1
Math Elective.....3	Electives5	4813 Educ Tests & Meas3	4041 Classroom Mgmt..... 1
(3000-4000 level)	Math Elective.....3	4823 Princ of Tech Sec3	4865 Student Teach Sec 5
	(3000-4000 level)	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

¹ First-time entering freshmen should take 1001 Freshman Orientation

² If applicable. See English Proficiency Program under the General Academic Information Section

³ SDE [Guidelines and Procedures Handbook for Certification](#), page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF SCIENCE IN EDUCATION

NATURAL SCIENCE EDUCATION

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

Mathematics3

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

Computer Applications.....2

COMSC 1022 Computer & Information Access

Natural Sciences8

***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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6-7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
___4 World Languages
TECH 1223 Technology and Society
KINES 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:

Dr. Peter Grant
Department of Biological Sciences
(580) 774-3294
E-mail: peter.grant@swosu.edu

OR

Dr. William Kelly
Department of Chemistry & Physics
(580) 774-3220
E-mail: william.kelly@swosu.edu

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
OR BIOL 3704 Human Anatomy
AND BIOL 3904 Human 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 3304 Aquatic Biology
OR BIOL 3504 Natural History
OR BIOL 4314 Environmental Biology

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

CONTINUED ON NEXT PAGE

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*

(* This course is only offered Fall odd years.)

Professional Semester

EDUC	3321	Multicultural/Special Populations
EDUC	4021	Contemp Issues in Education
EDUC	4041	Classroom Management
SECED	4865	Student Teaching in the Sec School
SECED	4965	Student Teaching in the Sec School

Freshman Orientation..... 1

Total hours for degree 127

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation	127
Minimum credit hours in the liberal arts & sciences	55
Minimum credit hours in upper-division (3000/4000 courses).....	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU	8
Minimum credit hours at SWOSU (15 of the last 30)	30
Minimum Grade Point Average in all coursework	2.50

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	1022 Comp Info Access.....2	1003 General Psychology3	1303 General Chem II3
1054 Principles of Biology.....4	1103 Amer Govt Politics.....3	1203 General Chem I.....3	1313 Intro Public Speaking.....3
1063 U.S. History.....3	1213 English Comp II.....3	1252 General Chem I Lab.....2	1352 General Chem II Lab2
1113 English Comp I.....3	1613 College Trig3	1904 Astronomy	2113 Found of Education.....3
1513 College Algebra.....3	2404 Introductory Botany4	OR 1934 Physical Geology ...4	Behav, Soc & Cult Studies3
Science elective**2		2204 Intro Zoology4	Science elective**4
		English Proficiency Exam***	
Total:16	Total:.....15	Total:16	Total:18

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	2714 Human Anat & Phys4	3653 Educ Psych (Sec)3	4021 Contemp Iss in Educ1
3132 Exceptional Child ¹2	3433 Adolescent Psych ¹3	4813 Ed Tests & Msrmts3	4041 Classroom Mgmnt.....1
Science elective**4	Humanities & Fine Arts3	4823 Prin of Tchg Sec.....3	4865 Student Teach Sec.....5
Science elective**4	Econ & Internat Studies3	4843 Teachers' Crse in Sci+3	4965 Student Teach Sec.....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

¹ SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

NATURAL SCIENCE EDUCATION (BIOLOGY) (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1	1022 Comp Info Access2	1003 General Psychology3	1303 Gen Chem II Lect3
1054 Principles of Biology4	1103 Amer Govt Politics.....3	1203 Gen Chem I Lect.....3	1313 Intro Public Speaking3
1063 U.S. History3	1213 English Comp II3	1252 Gen Chem I Lab.....2	1352 Gen Chem II Lab2
1113 English Comp I.....3	1613 College Trig3	1904 Astronomy	2113 Found of Education3
1513 College Algebra.....3	2404 Introd Botany4	OR 1934 Physical Geology4	3254 Genetics.....4
2022 Biol Orientation.....2		2204 Introd Zoology4	Behav, Soc & Cult Studies3
		English Proficiency Exam**	
Total:16	Total:.....15	Total:16	Total:18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1033 World History3	1054 Basic Physics II.....4	3423 Media and Tech.....3	3321 Multictrl/Spec Pop.....1
1044 Basics Physics I4	2714 Human Anat & Phys.....4	3653 Educ Psych (Sec)3	4021 Contemp Iss in Educ1
3132 Exceptional Child ¹2	3433 Adolescent Psych ¹3	4813 Educ Tests & Msrmts.....3	4041 Classroom Mgmnt1
Biology Concentr Elective.....4	Econ & Internat Studies3	4823 Prin of Tchg Secondary.....3	4865 Student Teach Sec5
Field Biology***4	Humanities & Fine Arts3	4843 Teachers' Course in Sci+ ...3	4965 Student Teach Sec5
Total17	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

¹ SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

NATURAL SCIENCE EDUCATION (CHEMISTRY) (CODE 727)

Suggested Course Sequence

FIRST YEAR		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
1054 Principles of Biology..... 4	1303 Gen Chemistry II 3	1904 Astronomy	1022 Comp Info Access2
1113 English Comp I 3	1313 Intro Public Speaking.... 3	or 1934 Physical Geology 4	2714 Human Anat/Phys.....4
1203 General Chem I 3	1332 Gen Chem II Lab 2	2204 Introductory Zoology 4	Chemistry elective**4
1252 General Chem I Lab 2	1613 College Trig..... 3	Chemistry elective** 4	Gen Educ Crse3
1513 College Algebra 3	2404 Intro Botany..... 4	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 Multictral/Spec Pop.....1
1044 Basic Physics I 4	1103 American Govt 3	3653 Ed Psych (Sec)..... 3	4021 Contemp Iss in Educ.....1
2113 Foundations of Educ 3	3433 Adolescent Psych ¹ 3	4813 Educ Tests & Msrmnts 3	4041 Classroom Mngt1
3132 Exceptional Child ¹ 2	Chemistry elective** 2	4823 Prin of Tchg Secondary 3	4865 Student Teach Sec5
Chemistry elective** 4	Gen Educ Crse..... 3	4843 Teachers' Crse in Sci+ 3	4965 Student Teach Sec5
		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

¹ SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

NATURAL SCIENCE EDUCATION (PHYSICS) (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient* 1	1213 English Comp II 3	1054 Principles of Biology 4	1063 U.S. History..... 3
1022 Comp Info Access..... 2	1303 Gen Chem II Lect 3	1313 Intro Public Speaking ... 3	1103 American Govt 3
1113 English Comp I 3	1352 Gen Chem II Lab 2	2155 General Physics II 5	2204 Introd Zoology..... 4
1203 Gen Chem I Lect..... 3	1834 Calculus I..... 4	2834 Calculus II 4	3311 Mod Phys Eng Lab 1
1252 Gen Chem I Lab..... 2	2145 General Physics I..... 5	English Proficiency Exam***	3403 Mod Phys Eng 3
1715 Coll Algebra & Trig**... 5			General Educ Crse..... 3
Total: 16	Total: 17	Total: 16	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1003 General Psychology 3	2113 Found of Educ 3	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 Contemp Iss in Educ.....1
1904 Astronomy	3132 Exceptional Child ¹2	4813 Ed Tests & Msrmnts.....3	4041 Classroom Mgmnt1
OR 1934 Physical Geology . 4	3433 Adolescent Psych ¹3	4823 Prin of Tchg Second.....3	4865 Student Teach Sec5
2404 Introd Botany..... 4	Elective..... 1	4843 Teach Crse in Sci+3	4965 Student Teach Sec5
Gen Educ Crse 3	Gen Educ Crses 3		
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.

¹ SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

BACHELOR OF SCIENCE IN EDUCATION TECHNOLOGY EDUCATION

**Technology Education Major
Code No. 713**

GENERAL EDUCATION

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

TOTAL HOURS.....43 - 44

Composition6

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 Sciences8

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 & Government6

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 Studies6 - 7

PSYCH 1003 **General Psychology**
SOCIO 1003 Intro to Sociology
_____4 World Languages
TECH 1223 **Technology and Society**
KINES 1133 Wellness Concepts & Exercise
Applications

FOR INFORMATION CONTACT

Dr. Gary Bell, Chair
Department of Industrial and Engineering Technology
Phone: (580) 774-3162
E-mail: gary.bell@swosu.edu

Required courses..... 32

TECH 1203 Engineering Drafting
TECH 1313 Wood Materials and Processes
TECH 1713 Applied Electronics
TECH 2010 Seminar in Technology Education
TECH 2513 Fabrication Processes I
TECH 3203 Computer Aided Drafting I
TECH 3613 Power Systems
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 Contemporary 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

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 120
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division
(3000/4000 courses)..... 40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU 8
Minimum credit hours at SWOSU (15 of the last 30) 30
Minimum Grade Point Average in all coursework 2.50

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	1003 General Psych 3	1004 Biological Concepts ... 4	1033 World History 3
1022 Comp/Info Systems2	1213 English Comp II 3	1063 US History..... 3	2413 Intro to Lit 3
1103 American Gov't3	1223 Tech & Society..... 3	1313 Wood Mat & Proc 3	3203 CAD I 3
1113 English Comp I3	1713 Applied Elec..... 3	2113 Found of Ed..... 3	3613 Power Systems..... 3
1203 Eng Drafting.....3	2010 Seminar in TE	2513 Fab Proc I..... 3	4233 Graphic Comm 3
1513 College Algebra3	Gen Educ Crse 3	English Proficiency Exam**	
Total:.....15	Total:..... 15	Total: 16	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
4313 Const Systems 3	3653 Educ Psych 3	4813 Ed Tests & Meas3	4021 Crit Issues Ed..... 1
4943 Org/Adm TE Syst..... 3	3902 Man Stud Org..... 2	4823 Prin Tchng Sec3	4041 Classroom Mgmt..... 1
Gen Educ Crse 3	4903 Mfg Enterprises..... 3	4983 Prin Tchng TE3	4865 Stud Tchng Sec5
TE Elective 3	Gen Educ Crse 3	Gen Educ Crse3	4965 Stud Tchng Sec5
	TE Elective..... 3		
Total:..... 14	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.

*** SDE [Guidelines and Procedures Handbook for Certification](#), page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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
KINES 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	Contemporary 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.

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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

* SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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	Contemporary 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 KINESIOLOGY

FACULTY

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R. Held.....	HPE 50.....	ryan.held@swosu.edu	(580) 774-7190
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T. Loy	HPE 110.....	tami.loy@swosu.edu	(580) 774-3226
B. Pagliasotti.....	HPE 201.....	bo.pagliasotti@swosu.edu	(580) 774-7089
A. Sturgeon	HPE 113.....	amber.sturgeon@swosu.edu	(580) 774-3184
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DEPARTMENTAL GOALS

The Kinesiology department has the following objectives:

1. To provide the future health and physical education teacher and coach with skills necessary to develop exceptional programs in the public and private school.
2. To offer a four-year course of study leading to the Bachelor of Science in Education for the Health and Physical Education track student.
3. To offer specialized coursework, which includes health, physical education sciences, physical education programs, and athletic coaching theory.
4. To provide for all students a variety of programs and courses designed to aid the student in making proper choices involving healthy living styles, lifetime sports, leisure skills, and fitness skills.
5. To provide and assist the public and private schools with expertise and information in health and physical educations.
6. Prepare the future exercise science professional with skills necessary in preventive health services in a corporate or community setting or to provide rehabilitative health services in a clinical setting.
7. To offer a four-year course of study leading to the Bachelor of Science in Exercise Science.
8. To offer specialized course work, which includes applied sciences in exercise physiology, exercise testing and prescription, motor control, kinesiology and anatomy, and the sociology of exercise behavior.
9. To provide students the most contemporary issues and trends in the application of exercise for weight management, cardiopulmonary health, maintenance of functional movement throughout the lifespan, and the application of exercise science to athletic performance.

PROGRAMS OF STUDY

Major: B.S. Exercise Science
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 Kinesiology departments in the state. The degrees offered are the Bachelor of Science in Education in Health and Physical Education and the Bachelor of Science in Exercise Science..

The Bachelor of Science in Education degree in Health and Physical Education is a teaching degree accredited by the National Council for the Accreditation of Teacher Education. The Health and Physical Education degree prepares the student for teaching and coaching positions in public and private schools.

Graduates will be able to pursue employment as:

- Kindergarten through 12th grade physical education teachers
- Kindergarten through 12th grade health teachers
- Middle school, junior high, and high school coaches
- Summer camps for children and youth
- Specialized sports camps

The Bachelor of Science in Exercise Science degree is a non-teaching degree. The degree prepares graduates for a broad range of health and fitness related professions.

Graduates will be able to pursue employment as:

- Preventative health services in a corporate or community setting
- Rehabilitative health services in a clinic
- Preparation for other career endeavors: Personal Trainer; Strength and Conditioning Specialist; Pre-Physical Therapy; Sport Nutrition; Cardiac Rehabilitation; Fitness and Wellness Management; and others

All courses offered are taught in small classes by professors holding a Master's degree or higher. Presently there are two doctorate faculty in the department. The Kinesiology faculty hold positions and are active in state and national organizations.

For more information visit our web site at:

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

BACHELOR OF SCIENCE EXERCISE SCIENCE

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS 43 - 44

Composition6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

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

Computer Applications2

COMSC 1022 Computer & Information Access

Natural Sciences8

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 Arts6

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 & Government6

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

Economic & International Studies6

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
KINES 1133 Wellness Concepts & Exercise Applications

Exercise Science Major Code No. 170

Required Courses52

ALHLT 1401	Allied Health Careers
KINES 1153	Nutrition
KINES 2212	First Aid
KINES 2222	Foundations of HPER
KINES 2502	Care and Prevention of Athletic Injuries
KINES 3353	Health & Aging
KINES 3443	Kinesiology and Anatomy
KINES 3662	Exercise Prog for Special Populations
KINES 4012	Weight and Circuit Training App
KINES 4052	Sociology of Sports
KINES 4063	Legal Aspects in PE, Rec, & Athletics
KINES 4233	Exercise Physiology
KINES 4262	Motor Learning
KINES 4533	Consumer Health Education
KINES 4882	Exercise Prescription & Testing
KINES 4995	Practicum in Exercise Science
KINES 4997	Practicum in Exercise Science
PRM 3663	Recreation Management
PRM 3702	Rec Areas & Facilities Mngmt

Free Electives 7
No more than two activity courses

Suggested Minors18-24

Technology
Business Management
Parks & Recreation Management
Health Sciences
Psychology
Social Work

(Other Minors available with approval)

Exercise Science Exit Exam required during the final semester of coursework.

Total hours for degree 120

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation120
Minimum credit hours in the liberal arts & sciences55
Minimum credit hours in upper-division (3000/4000 courses)40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8
Minimum credit hours at SWOSU (15 of the last 30)30
Minimum Grade Point Average in all coursework2.00
Minimum Grade Point Average in major2.25

FOR INFORMATION CONTACT:

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Department of Kinesiology
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EXERCISE SCIENCE (CODE 170)
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	Gen Educ Crse3
1022 Comp Info Access..... 2	1033 World History..... 3	1103 American Govt 3	Gen Educ Crse4
1063 US History 3	1213 English Comp II 3	2222 Foundations HPER 2	1103 World Cultural Geo..... 3
1113 English Comp I 3	2212 First Aid 2	1153 Nutrition 3	3702 Rec Areas & Fac Mgt... 2
1133 Wellness Concept..... 3	1313 Intro Public Speak 3	2502 Care and Prev Athl Inj 2	4012 Wgt & Cir Tr.....2
1513 College Algebra 3			3443 Kines & Anat3
Total:..... 15	Total:..... 14	Total:..... 14	Total:.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1401 Allied Hlth Careers 1	4052 Sociology of Sports 2	3353 Health & Aging 3	4995 Practicum in Ex Sci.....5
4063 Legal Aspects..... 3	4262 Motor Learning..... 2	3662 Exerc Prog Sp Pop..... 2	4997 Practicum in Ex Sci.....7
4233 Exercise Physiology 3	4533 Consumer Health..... 3	Minor..... 12	
3663 Recreation Mgt..... 3	4882 Exer Presc & Test..... 3		
Free Electives.....4	Free Electives 3		
Minor 3	Minor 3		
Total:..... 17	Total:..... 16	Total:..... 17	Total:.....12

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE IN EDUCATION

HEALTH AND PHYSICAL EDUCATION

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
KINES 1133 Wellness Concepts & Exercise Applications

FOR INFORMATION CONTACT:

Dr. Vicki Hatton, Chair

Department of Kinesiology

Phone: (580) 774-3181

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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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.50

Health and Physical Education Major

Code No. 709

Required Courses 28

KINES 1932 Tech as Appl to Gym, Fitness, & Aqua
KINES 1942 Tech as Applied to Individual Sports
KINES 1952 Techniques as Applied to Team Sports
KINES 2222 Foundations of HPER
KINES 2242 Sports Officiating
KINES 2212 First Aid
KINES 2502 Care and Prevention of Athletic Injuries
KINES 3133 Teaching Health in the Public Schools
KINES 3443 Kinesiology and Anatomy
KINES 4233 Exercise Physiology
KINES 4243 Therapeutic & Prescriptive Phys Educ
KINES 4262 Motor Learning

Electives 9

(Selected courses from those listed below)

KINES 1153 Nutrition
KINES 4052 Sociology of Sports
KINES 4063 Legal Aspects in PE, Rec, & Athletics
KINES 4073 Evaluation in Physical Education
KINES 4113 Organization & Admin of HPER
KINES 4122 Organization & Admin of Athletics
KINES 4333 Principles and History of H & PE
KINES 4353 Motor Development
KINES Theory of Coaching –KINES 4802 Football,
KINES 4832 Basketball, KINES 4842 Women's
Basketball, KINES 4862 Baseball, KINES 4892
Track and Minor Sports
KINES 4873 Curriculum Construction in HPER
PRM 4163 Community Recreation

Activity Electives 2

Professional Education Requirements 40

Certificate/Foundations Courses

EDUC 2113 Foundations of Education
*PSYCH 3213 Developmental Psychology
*SPCED 3132 Exceptional Children

Foreign Language Proficiency (Required)

Pre-Professional Semester

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
KINES 3553 Methods & Materials Elem HPER
KINES 4553 Teacher's Course in H&PE
KINES 4541 Capstone Experience HPE

Professional Semester

EDUC 3321 Multicultural/Special Populations
EDUC 4021 Contemporary 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

* SDE *Guidelines and Procedures Handbook for Certification*, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

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 Aq2
1022 Comp Info Access.....2	1033 World History..... 3	1103 American Govt 3	1942 Tech App to Ind Spts.....2
1063 US History3	1213 English Comp II 3	2222 Foundations HPER 2	2242 Sports Officiating..... 2
1113 English Comp I 3	2212 First Aid 2	2413 Intro to Lit 3	Gen Educ Crse 3
1133 Wellness Concept.....3	Gen Educ Crse..... 3	Major Elective 3	Gen Educ Crse4
Gen Educ Crse 3	P. E. Activity 2	English Proficiency Exam**	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
2113 Foundations of Educ3	3553 M & M Elem PE..... 3	3453 or 3653 Edu Psych 3	4021 Contemp Issues in Ed....1
2502 Care & Prev Ath Inj2	3213 Develop Psych*** 3	4541 Capstone..... 1	4041 Classroom Mgmt.....1
3132 Excep Children*** 2	4233 Exer Physiology	4553 Tchrs Crse H&PE 3	4765 St Teaching in Elem.....5
4233 Exercise Physiology	or 3443 Kines & Antmy..... 3	4613 or 4813 Ed Test/Meas 3	4965 St Teaching in Sec.....5
or 3443 Kines & Antmy 3	4262 Motor Learning..... 2	4833 Pr Tch El	
4243 Ther/Prec Phys Ed..... 3	Major Elective 2	or 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.

*** SDE Guidelines and Procedures Handbook for Certification, page 3, and OK Regents for Higher Education Rule 11-2-24 state that courses classified as professional teacher education must be acquired from a four-year accredited program.

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION DEPARTMENT OF PARKS AND RECREATION MANAGEMENT

FACULTY

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DEPARTMENTAL GOALS

The Parks and Recreation Management Department has the following objectives:

1. To provide the future parks and recreation professional with skills necessary to develop exceptional programs.
2. To offer a four-year course of study leading to the Bachelor of Science in Parks and Recreation Management and Bachelor of Science in Park Law Enforcement degrees.
3. To offer specialized coursework including parks and recreation management, adventure programming, park law enforcement, and leisure studies theory. Completion of specified coursework will enable the student majoring in another area to qualify for a minor in Parks and Recreation Management or Park Law Enforcement. 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/ranger or wildlife conservation officer/game warden. 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

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS 43 - 44

Composition6

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

Mathematics3

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

Computer Applications2

COMSC 1022 **Computer & Information Access**

Natural Sciences8

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 Arts6

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 & Government6

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

Economic & International Studies6

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
KINES 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 (15 of the last 30) 30

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

Parks and Recreation Management Major Code No. 168

Required Courses 32

PRM 2102 Foundations of Parks and Recreation
PRM 3663 Recreation Management
PRM 3702 Recreational Areas and Facilities
Management
PRM 4113 Risk Management in Recreation
OR
KINES 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

KINES 2212 First Aid
OR
PRM 3133 Emergency Response
PRM 3161 Lifeguarding
PRM 3171 Lifeguard Instructor
PRM 3152 SCUBA
PRM 3262 Advanced SCUBA/SLAM

Fitness Specialization 8

KINES 2502 Care and Prevention of Athletic Injury
KINES 4233 Exercise Physiology
KINES 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
PRM 3132 Wilderness Survival

Park Law Enforcement Specialization 8

PRM 3122 Wilderness First Aid
PRM 3133 Emergency Response
PRM 3161 Lifeguarding
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
PRM 4172 Natural Resource Law

Sport Management Specialization 8

KINES 2242 Sports Officiating
KINES 4052 Sociology of Sport
KINES 4122 Organization & Adm of Athletics
KINES 4222 Organization & Mngmt of Intramural Sports
PRM 4012 Current Topics in Sports Management
PRM 4012 Recreational Sports History
PRM 4122 Recreation and Sports Management Law
PRM 4132 Recreation and Sports Employment Law
PRM 4142 Ethics in Recreation and Sports Mngmt
PRM 4152 Recreation and Sports Mngmnt Statistics
PRM 4502 Rodeo Management
PSYCH 4133 Psychology of Sports

Sport and Recreation Activity Specialization 8

KINES 1932 Tech Applied to Gym Fitness, and Aquatics
KINES 1942 Techniques Applied to Individual Sports
KINES 1952 Techniques Applied to Team Sports
PRM 3113 Sailing, Canoeing, Hiking and Climbing
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
KINES 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

OR

PRM 3452 Advanced Ropes
PRM 3663 Recreation Management
PRM 3702 Recreational Areas and Facilities Management
PRM 4113 Risk Management in Recreation
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 4663 Outdoor Recreation
PRM 4773 Natural Resource Recreation Management
PRM 4996 **AND** PRM 4997 Internship in Professional Recreation (Park 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 (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework..... 2.00
Minimum Grade Point Average in major..... 2.00

PARKS AND RECREATION MANAGEMENT (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	2102 Found of Parks & Rec.....2	3663 Recreation Managmnt....3
1113 English Comp I3	Gen Educ Crses 10	Free Elective4	Free Electives2
Gen Educ Crses9	Recreation Activity 2	Gen Educ Crses9	Gen Educ Crses9
Recreation Activity2		English Proficiency Exam** 9	PRM Specialization Areas2
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	
4113 Risk Management Rec3	4663 Outdoor Recreation 3	Free Elective3	4996 Intern in Prof Rec.....6
Free Elective2	Free Electives2	Minor Electives6	4997 Intern in Prof Rec.....7
Minor Electives6	Minor Electives..... 6	PRM Specialization Areas2	
PRM Specialization Areas2	PRM Specialization Areas..... 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 Psychology3	3663 Recreation Managmnt....3
1063 U. S. History3	1103 Am Gov't & Politics 3	2102 Found of Parks & Rec.....2	3702 Rec Area & Fac Mgmt2
1113 English Comp I3	1213 English Comp II 3	Gen Educ Crses10	4113 Risk Management Rec ...3
1133 Wellness Concepts3	Gen Educ Crses 6	English Proficiency Exam**	4231 Custody & Control1
Gen Educ Crses5			Free Electives4
			Minor Course3
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 Safety1	4996 Intern in Prof Rec.....6
4201 The Park Ranger.....1	3161 Lifeguarding 1	4241 Firearm Safety1	4997 Intern in Prof Rec.....7
4663 Outdoor Recreation3	3442 Advanced Ropes 2	4773 Natural Res Rec Mgmt ...3	
Free Elective3	4221 Game & Fish Law..... 1	Free Elective6	
Minor Electives6	Free Electives 3	Minor Electives3	
	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
KINES 2212 First Aid	
PRM 3113 Sailing, Canoeing, Hiking, and Climbing	
PRM 3152 SCUBA	
PRM 3161 Lifeguarding	
PRM 3162 SCUBA Lifesaving and Accident Mngmt	
PRM 3211 Outdoor Ed / Adventure Programming	
PRM 3663 Recreation Management	
OR 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
 Education Building, Room 123
 Phone: (580) 774-3291
 E-mail: chad.kinder@swosu.edu

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

DEPARTMENT OF PSYCHOLOGY

FACULTY

James Hunsicker, Chair
 Psychology Building, PSY 117-3
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 E-mail: jim.hunsicker@swosu.edu
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S. Burgess	PSY 117-5	stephen.burgess@swosu.edu	(580) 774-7015
J. Correll	PSY 128	jayne.correll@swosu.edu	(580) 774-3723
R. Scott	PSY 117-6	rodney.scott@swosu.edu	(580) 774-3726
G. Welch	PSY 117-1	ginger.welch@swosu.edu	(580) 774-3722
M. Wolff	PSY 117-2	michael.wolff@swosu.edu	(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, testing materials, and cognitive and physiological equipment.

Faculty research interests include memory processes, attention and impulsivity in test taking, child health and well-being, social influence and attitude theory and measurement, human learning, women's issues, home environments, child and adolescent educational performance, and the foster care system

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

Composition6

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 Sciences8

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 & Government6

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 Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
_____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise
Applications

Psychology Major Code No. 160

Required core courses..... 7

PSYCH 2433 Psychological Statistics
PSYCH 3224 Research Methods

Category A..... 6

(Select 6 hours from the following:)

PSYCH 2423 Social Psychology
PSYCH 3333 Behavior Management
PSYCH 3363 Psychology of Personality

Category B 6

(Select 6 hours from the following:)

PSYCH 3233 Learning & Memory
PSYCH 3253 Psychological Tests
PSYCH 4333 Physiological Psychology

Category C..... 17-18

(Select 17-18 hours from the following:)

PSYCH 2423 Social Psychology*
PSYCH 3201-4 Contemporary Problems in Psychology
PSYCH 3213 Developmental Psychology
PSYCH 3233 Learning & Memory*
PSYCH 3243 Cross-Cultural Psychology
PSYCH 3253 Psychological Tests*
PSYCH 3323 Abnormal Psychology
PSYCH 3333 Behavior Management*
PSYCH 3363 Psychology of Personality*
PSYCH 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 4133 Psychology of Sports
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 4391-4 Advanced Seminar in Psychology
PSYCH 4533 Language Development

*These courses may only be used once.

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 (15 of the last 30) 30

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

Minimum Grade Point Average in major 2.00

PSYCHOLOGY (CODE 160)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FOURTH SEMESTER
1001 Freshman Orient* 1	1103 American Govt..... 3	1033 World History 3	Gen Educ Crse..... 6
1003 General Psych..... 3	1213 English Comp II..... 3	Free Elective 3	Level III..... 6
1063 US History..... 3	Level III..... 3	Gen Educ Crse 6	Minor..... 3
1113 English Comp I..... 3	Gen Educ Crse..... 6	Level II..... 3	
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
Free Elective 3	Free Elective..... 3	Free Elective 6	Free Elective..... 6
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
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		
Level I	1003	General Psychology
Level II	2423	Social Psychology
	2433	Psychological Statistics
	3213	Developmental Psychology
Level III	3201-4	Contemporary Problems
	3224	Research Methods
	3233	Learning & Memory
	3243	Cross-Cultural Psychology
	3253	Psychological Tests
	3323	Abnormal Psychology
	3333	Behavior Management
	3363	Psychology of Personality
	3503	Industrial/Organizational Psychology
Level IV	4113	Issues in Chemical Dependency
	4123	Theories & Principles of Psychotherapy
	4133	Psychology of Sports
	4203	Psychology of Women
	4223	Media & Mental Illness
	4313	Intro to Clinical Psychology
	4333	Physiological Psychology
	4371-4	Psychological Research
	4391-4	Advan Sem in Psychology
	4533	Language Development

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

SOCIAL WORK PROGRAM

FACULTY

Debbi McFarlin, Program Director
Education Building, Room 214C
Phone: (580) 774-7087
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<http://www.swosu.edu/socialwork/>

C Gregston EDU 214A chris.gregston@swosu.edu (580) 774-3142

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
C. Gregston

GENERAL INFORMATION

The Social Work Program is accredited by the Council on Social Work Education (CSWE) - <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

Composition6

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 Applications2

COMSC 1022 Computer & Information Access

Natural Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise
Applications

Social Work Major Code No. 173

Required courses39

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
SOCSC 3853 Statistics for Social Science
OR PSYCH 2433 Psychological Statistics

Upper Level electives in Social Work6

Social Work Exit Survey required during final semester of coursework.

Electives to bring total to120

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

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation120

Minimum credit hours in the liberal arts & sciences40

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

Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8

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

Minimum Grade Point Average in all coursework2.50

Minimum Grade Point Average in major2.50

SOCIAL WORK

ACCREDITATION

The Social Work Program is nationally accredited by the Council on Social Work Education (CSWE) – 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, and ECON 2363.
5. Complete: MATH 1143 or MATH 1513, HIST 1063, BIOL 1004.
6. Complete: PSYCH 1003 General Psychology and either World Languages **OR** 1003 Intro to Sociology.
7. Complete: SOCWK 2503 Introduction to Social Work with a minimum grade of C.
8. Evidence of personal traits that suggest potential for working professionally and effectively in the social services environment.
9. Three letters of recommendation.
10. A minimum cumulative grade point average of 2.50 is required for consideration for admission.
11. Submit verification of criminal background check.
12. 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	Free Elective4	Gen Educ Crses 12	2503 Intro to Social Work..... 3
Free Elective..... 3	Gen Educ Crses.....12	Minor Courses 4	Gen Educ Crses 13
Gen Educ Crses 12		English Proficiency Exam**	
Total: 16	Total16	Total: 16	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3263 Humn Beh/Soc Env I..... 3	3273 Human Beh/Soc Env II..3	4603 Micro Systems Prac. 3	4623 Macro Systems Practice. 3
3853 Stat for Soc Sci	3503 Social Welfare Policy3	4613 Small Group Prac. 3	4836 Field Prac./Sem. I 6
or 2433 Psychological Stat ... 3	3863 Research for Soc Work ...3	Minor Courses 6	4846 Field Prac./Sem. II 6
Minor Courses 6	Minor Courses.....3	Social Work Elective 3	Senior Exit Survey
Social Work Elective.....3	Social Work Elective.....3		

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.

*** 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 AND TECHNOLOGY

**Dr. Ken Rose, Dean
Dr. Larry McKee, Associate Dean**

DEPARTMENT OF ACCOUNTING AND FINANCE

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)

Accounting
Finance

DEPARTMENT OF ENTREPRENEURSHIP AND COMPUTER SYSTEMS

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)

Entrepreneurship

BACHELOR OF SCIENCE

Computer Science
Information Systems

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE

Engineering Technology
Computer Engineering Technology
Environmental Engineering Technology
Manufacturing Engineering Technology
Industrial Technology
Electronics Technology
Environmental Technology
Industrial Supervision
Manufacturing Technology
General Technology

DEPARTMENT OF MANAGEMENT AND MARKETING

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)

Management
Marketing

SCHOOL OF BUSINESS AND TECHNOLOGY

DEPARTMENT OF ACCOUNTING AND FINANCE

FACULTY

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E-mail: john.may@swosu.edu
<http://www.swosu.edu/business>

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R. Hays	STF 347	rita.hays@swosu.edu	(580) 774-3020
N. Buddy-Penner	STF 302	nancy.penner@swosu.edu	(580) 774-3746
S. Tinsley	STF 353	steve.tinsley@swosu.edu	(580) 774-3061

The Department of Accounting and Finance offers students professional education in business that will facilitate their personal development for careers as a Certified Public Accountant in business, government, non-profit organizations, teaching, or graduate level study in business. The primary strength of the School's programs is excellence in teaching and individual attention given to students.

The faculty and staff of the Department of Accounting and Finance 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. (Accounting and Finance Association and Phi Beta Lambda).

The Department's programs are designed to reflect the environment of the many small and medium-sized businesses found in the region. At the same time, large organizations and the significance of today's international trade environment are recognized and taught as part of the Accounting and Finance curriculum.

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 and Finance. For post-graduate study, a Master of Business Administration (M.B.A.) degree is offered. See the Graduate Catalog for more information.

The International Assembly for Collegiate Business Education accredits the School of Business for both its undergraduate and graduate programs.

PROGRAMS OF STUDY

Majors: B.B.A. Accounting
B.B.A. Finance

Minors: Accounting
Finance

Graduate: Master of Business Administration

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
ENTRP	3113	Introduction to MIS
ENTRP	3123	Legal Environment of Business
MRKTG	3143	Principles of Marketing
MNGMT	3233	Management
ENTRP	3423	Business Communications
FINAN	3343	Business Finance
ENTRP	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

(Must be completed as part of General Education)

MATH	1513	College Algebra OR 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

Composition6

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 Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 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
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communications
ENTRP 3823 Quantitative Business Methods
ENTRP 3113 Intro to MIS
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing

**One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Business course ENTRP 3223 Commercial Law 3

Required Accounting Courses 18

ACCTG 3313 Intermediate Accounting I
ACCTG 3323 Intermediate Accounting II
ACCTG 3213 Accounting Information Systems
ACCTG 3523 Income Tax Accounting I
ACCTG 3713 Cost Accounting
ACCTG 4213 Auditing I

Accounting Electives..... 9

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 & sciences50**
Minimum credit hours in upper-division
(3000/4000 courses)40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU 8
Minimum credit hours at SWOSU (15 of the last 30)..... 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

**Includes Microeconomics and Macroeconomics

BACHELOR OF BUSINESS ADMINISTRATION FINANCE

GENERAL EDUCATION

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

TOTAL HOURS.....43 - 44

Composition6

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 Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

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

Finance Major Code No. 206

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
ENTRP 3113 Intro to MIS
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communications
ENTRP 3823 Quantitative Business Methods
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing

**One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Courses Required.....15

ACCTG 4643 Globalization of Acctg, Finance, & Invest
FINAN 3663 Investments
FINAN 3213 Risk Management
FINAN 4063 Financial Institutions & Markets
FINAN 4263 Financial Management

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 graduation120
Minimum credit hours in the liberal arts & sciences50**
Minimum credit hours in upper-division
(3000/4000 courses).....40
Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8
Minimum credit hours at SWOSU (15 of the last 30)30
Minimum Grade Point Average in all coursework.....2.00
Minimum Grade Point Average in major.....2.00

***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	1004 Biological Conc..... 4	2213 Prin Acctg I.....3	2313 Prin of Acctg II 3
1003 General Psych..... 3	1103 Amer Govt..... 3	2263 Intro/Macroecon.....3	2363 Intro/Microecon 3
1022 Comp/Info Access 2	1213 English Comp II 3	Free Electives.....3	2463 Bus Statistics..... 3
1063 U.S. History 3	1313 Intro/Pub. Speak 3	Gen Educ Crse6	3113 Intro to MIS 3
1113 English Comp I..... 3	Gen Educ Crse 3	English Proficiency Exam**	Gen Educ Crse..... 4
1513 College Algebra..... 3			
Total: 15	Total: 16	Total: 15	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	3343 Bus Finance.....3	4213 Auditing I..... 3
3313 Intermed Acctg I..... 3	3713 Cost Acctg..... 3	Acctg Electives6	4923 Strat Mngmt & Pol..... 3
3413 Bus Com..... 3	3823 Quant Methods 3	Free Electives.....2	Acctg Electives 3
4313 IncomeTax Acctg I..... 3	Free Electives 3		Free Electives 3
Total: 15	Total: 15	Total: 14	Total: 15

*First-time entering freshmen need to take 1001 Freshman Orientation

**If applicable. See English Proficiency Program under the General Academic Information Section.

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	1103 Amer Govt..... 3	2213 Prin of Acctg I.....3	2363 Intro/Microecon 3
1022 Comp/Info Access 2	1213 English Comp II 3	2263 Intro/Macroecon.....3	2463 Bus Statistics..... 3
1063 U.S. History 3	Free Electives.....2	Free Electives.....2	Gen Educ Crse 6
1113 English Comp I..... 3	Gen Educ Crse 3	Gen Educ Crse4	
1513 College Algebra..... 3		English Proficiency Exam**	
Total: 14	Total: 15	Total: 15	Total: 15

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 Investments3	Acctg OR Finance Elective...3
3343 Business Finance 3	3123 Legal Envirn..... 3	Bus, C.S. OR Math Elective..3	Free Electives 6
3113 Intro to MIS 3	3233 Management..... 3	Acctg OR Fin Elec6	4923 Strat Mngmt & Pol..... 3
Free Electives 3	3663 Investments 3	3213 Risk Management3	
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.

SCHOOL OF BUSINESS AND TECHNOLOGY

DEPARTMENT OF ENTREPRENEURSHIP AND COMPUTER SYSTEMS

FACULTY

Les Crall, LD, CPA, Chair
Madeline Baugher, Program Director

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The Department of Entrepreneurship and Computer Systems offers students professional education in business that will facilitate their personal development for careers in business, government, non-profit organizations, teaching, or graduate level study in business. The primary strength of the School's programs is excellence in teaching and individual attention given to students.

The faculty and staff of the Department of Entrepreneurship and Computer Systems 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 Department's programs are designed to reflect the environment of the many small and medium-sized businesses found in the region. At the same time, large organizations and the significance of today's international trade environment are recognized.

Degree programs are developed around a professional business core. The curricula design leads to a Bachelor of Business Administration (B.B.A.) with a major in Entrepreneurship. For post-graduate study, a Master of Business Administration (M.B.A.) degree is offered. See the Graduate Catalog for more information.

The International Assembly for Collegiate Business Education accredits the School of Business for both its undergraduate and graduate programs.

PROGRAMS OF STUDY

Majors:	B.B.A. Entrepreneurship B.S. Computer Science B.S. Information Systems
Minors:	Entrepreneurship Computer Science Information Systems

For more information, visit our web sites at:

<http://www.swosu.edu/business>
<http://www.swosu.edu/compsci>

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
ENTRP	3113	Introduction to MIS
ENTRP	3123	Legal Environment of Business
ENTRP	3423	Business Communications
ENTRP	3823	Quantitative Business Methods
FINAN	3343	Business Finance
MNGMT	3233	Management
MNGMT	4923	Strategic Management and Policy
MRKTG	3143	Principles of Marketing

*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

(Must be completed as part of General Education)

MATH	1513	College Algebra OR 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 ENTREPRENEURSHIP

GENERAL EDUCATION

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

TOTAL HOURS.....43 - 44

Composition6

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 Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

PSYCH 1003 **General Psychology**
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise Applications

Entrepreneurship Major Code No. 217

Professional Business Core36

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
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communications
ENTRP 3823 Quantitative Business Methods
ENTRP 3113 Intro To MIS
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing

**One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Courses15

One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Entrepreneurship, Finance, Management, and Marketing
MNGMT 4433 Entrepreneurship/New Venture

Business Electives9

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 SWOSU8
Minimum credit hours at SWOSU (15 of the last 30).....30
Minimum Grade Point Average in all coursework2.00
Minimum Grade Point Average in major2.00

***Includes Microeconomics and Macroeconomics*

ENTREPRENEURSHIP 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	3423 Bus Comm 3	4923 Strat Mgmnt & Pol..... 3
3123 Leg Envrn of Bus..... 3	3823 Quant Methods 3	Business Elective ² 3	Business Elect ² 3
3143 Prin of Marketing..... 3	Elective in Major ¹ 9	Elective in Major ¹ 3	Elective in Major ¹ 6
3233 Management 3		Free Electives..... 6	Free Electives 3
Free Electives 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.

¹ One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, and Marketing.

² 3000-4000 Level School of Business courses.

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

Composition6

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics3

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

Computer Applications2

COMSC 1022 Computers & Information Access

Natural Sciences8

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 Arts6

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 & Government6

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

Economic & International Studies6

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
KINES 1133 Wellness Concepts & Exercise
Application

Computer Science Major/Minor Code No. 110

Required Courses..... 27

COMSC 1033 Computer Science I
COMSC 1053 Computer Science II
COMSC 1103 Introduction to Information Security
COMSC 2043 Discrete Structures
COMSC 2413 Data Structures
COMSC 3013 Computer Architecture
COMSC 3053 Operating Systems
COMSC 3153 Data Comm. & Networks
COMSC 4953 CS/IS Capstone I

Approved Computer Science Electives 15

1000/2000 Level Computer Science Electives (0-6)
3000/4000 Level Computer Science Electives (9-15)

Auxiliary Requirements 11-13

MATH 1834 Calculus I OR 2823 Applied Calculus
MATH 3433 Statistics I

AND

any 4 or 5 hour Physics course

OR 6 Hours from:

TECH 4813 Network Electronics
TECH 4823 Digital Electronics
TECH 4833 Microcomputer Electronics

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 12

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

Minimum Grade Point Average in all coursework 2.00

Minimum Grade Point Average in major 2.00

BACHELOR OF SCIENCE INFORMATION SYSTEMS

GENERAL EDUCATION

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

REQUIRED HOURS43 - 44

Composition6

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

Mathematics3

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

Computer Applications.....2

COMSC 1022 **Computers & Information Access**

Natural Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6-7

PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise Applications

Information Systems Major/Minor Code No. 109

Required Courses27

COMSC 1033 Computer Science I
COMSC 1053 Computer Science II
COMSC 1103 Introduction to Information Security
COMSC 3053 Operating Systems
COMSC 3153 Data Communications and Networks
COMSC 3353 Systems Analysis and Design
COMSC 3403 Database Systems
COMSC 3913 Web Development
COMSC 4953 CS/IS Capstone I

Approved Computer Science Electives15

1000/2000 Level Computer Science Electives (0-6)
3000/4000 Level Computer Science Electives (9-15)

Auxiliary Requirements.....12

MATH 3433 Statistics I
OR ECONO 2463 Business Statistics
ENTRP 3113 Intro to MIS
ENTRP 3823 Quantitative Methods in Business
ENTRP 3923 Adv. Computer Business Applications

Electives to bring total to.....120

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

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....120

Minimum credit hours in the liberal arts & sciences55

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

Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8

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

Minimum Grade Point Average in all coursework2.00

Minimum Grade Point Average in major2.00

COMPUTER SCIENCE (CODE 110)
B.S. COMPUTER SCIENCE
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	1004 Biological Concepts4
1022 Comp/Info Access 2	1103 Intr to Info Security3	2043 Discrete Structures3	Auxiliary Req. Choice3
1033 Computer Science I 3	1213 English Comp II3	2413 Data Structures.....3	Comp. Sci. Elective***.....3
1113 English Comp I..... 3	Gen Educ Crses7	Gen. Educ. Crses.....3	Gen Educ Crses.....3
1513 College Algebra..... 3		Minor3	Minor3
Gen Educ Crses 3		English Proficiency Exam**	
Total: 15	Total:.....16	Total:.....16	Total:16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3053 Operating Systems..... 3	3013 Comp Architecture3	4953 CS Capstone I.....3	Comp. Sci Elective***3
3433 Statistics I..... 3	3153 Data Comm & Netw.....3	Ancillary Reg. Choice.....3	Free Elective3
Comp. Sci. Elective*** 3	Comp. Sci. Elective***3	Comp. Sci. Elective***3	Gen Educ Crse3
Gen. Educ. Crses 3	Gen Educ Crses3	Gen Educ Crses.....3	Minor3
Minor..... 3	Minor3	Minor3	
Total: 15	Total:.....15	Total:.....15	Total:12

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** At least 9 credit hours 3000-4000 Level with Advisor Approval.

COMPUTER SCIENCE (CODE 109)
B.S. INFORMATION SYSTEMS
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1004 Biological Concepts4	Comp Sci Elective 6	Ancillary Requirement..... 3
1022 Comp/Info Access2	1053 Computer Science II.....3	Free Elective 3	Comp Sci Elective*** 3
1033 Computer Science I3	1103 Intr to Info Security3	Gen Educ Crses 6	Free Elective 3
1113 English Comp I.....3	1213 English Comp II3	English Proficiency Exam**	Gen Educ Crses 6
1513 College Algebra.....3	Free Elective3		
Gen Educ Crses 3-4			
Total: 15-16	Total:.....16	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2513 Operating Systems.....3	3153 Data Com & Networks.....3	4953 CS/IS Capstone I.....3	Comp. Sci. Elective*** 3
3353 System Analy & Des3	3403 Database Systems.....3	Ancillary Requirement.....3	Free Elective 6
3913 Web Development3	Ancillary Requirement.....3	Comp Sci Elective***3	Gen Educ Crse 3
Ancillary Requirement3	Gen Educ Crse3	Free Elective 3	
Gen Educ Crses3	Gen Educ Science Req.....4	Gen Educ Crses 3	
Total15	Total:.....16	Total: 15	Total: 12

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** At least 9 credit hours 3000-4000 Level with Advisor Approval.

SCHOOL OF BUSINESS AND TECHNOLOGY

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

FACULTY

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DEPARTMENTAL GOALS

The Department of Industrial and Engineering Technology provides students the opportunity to prepare for professional opportunities in industry and education.

Particular areas of preparation attempt to address:

1. The delivery of broad-based technical programs that allow the graduate to accommodate new and advancing technologies.
2. The preparation of an adequate work force to meet area state and regional demands for technology in industry and education.
3. The maintenance of quality curriculum content, faculty, equipment and facilities to meet the standards set by appropriate state and national accrediting agencies.

PROGRAMS OF STUDY

Majors: B.S. Engineering Technology
Computer Engineering Technology
Environmental Engineering Tech.
Manufacturing Engineering Tech.

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
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. Industrial Technology is currently accredited by the National Association of Industrial Technology (NAIT), 3300 Washtenaw Avenue, Suite 220, Ann Arbor, MI 48104-4200 – Telephone: (734) 677-0720. 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**

KINES 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 1713 Applied Electronics

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

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

ENGINEERING TECHNOLOGY (CODE 131)
COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*..... 1	1103 American Gov't..... 3	1004 Biological Concepts..... 4	1033 Computer Science I..... 3
1022 Comp/Info Access..... 2	1213 English Comp II..... 3	1044 Basic Physics I..... 4	1063 US History..... 3
1101 Intro to Technology..... 1	1433 Visual Basic Prog..... 3	1713 Applied Electronics..... 3	2513 Fabrication Proc I..... 3
1113 English Comp I..... 3	1613 College Trig..... 3	2823 Applied Calculus..... 3	Gen Educ Crses..... 7
1203 Engineering Draft..... 3	3203 CAD I..... 3	Gen Educ Crses..... 3	
1223 Tech & Society..... 3	Gen Educ Crses..... 3	English Proficiency Exam**	
1513 College Algebra..... 3			
Total:..... 16	Total:..... 18	Total:..... 17	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry..... 4	3143 Technical Pres..... 3	4433 Quality Control..... 3	3113 Industrial Safety..... 3
1053 Computer Science II..... 3	3613 Power Systems..... 3	4813 Networking Elec..... 3	3263 Machine Drafting I..... 3
3413 Statistical Methods I..... 3	3843 Telecommunications..... 3	4823 Digital Electronics..... 3	4020 Professional Cert.
3463 Mfg Oper I..... 3	4493 Mfg Oper II..... 3	4833 Microcomputer Elec..... 3	4373 Econ Decision Analy..... 3
3833 Communications Elec..... 3	COMSC Elective..... 3	COMSC Elective..... 3	COMSC Elective..... 3
	Gen Educ Crse..... 3		Electronics Elective..... 3
Total:..... 16	Total:..... 18	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.

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	1103 American Gov't..... 3	1044 Basic Physics I..... 4	1004 Biological Concepts..... 4
1022 Comp/Info Access..... 2	1213 English Comp II..... 3	1063 US History..... 3	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 Crse..... 4
1203 Engineering Draft..... 3	1713 Applied Electronics..... 3	Gen Educ Crse..... 3	
1223 Tech & Society..... 3	Gen Educ Crse..... 3	English Proficiency Exam**	
1513 College Algebra..... 3			
Total:..... 16	Total:..... 18	Total:..... 16	Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I..... 3	1303 Gen Chem II..... 3	2114 Organic/Biochem..... 4	3244 Environ Chem..... 4
1252 Gen Chem I Lab..... 2	1352 Gen Chem II Lab..... 2	2114L Organic/Biochem Lab	4020 Professional Cert
3143 Technical Pres..... 3	3413 Mfg Processes..... 3	3113 Industrial Safety..... 3	4254 Industrial Chem..... 4
3263 Machine Drafting I..... 3	4373 Econ Decision Analysis..... 3	3613 Power Systems..... 3	4355 Microbiology..... 5
3413 Stat Methods I..... 3	Gen Educ Crses..... 6	4433 Quality Control..... 3	4493 Mfg Oper II..... 3
3463 Mfg. Oper. I..... 3		Gen Educ Crse..... 3	
Total:..... 17	Total:..... 17	Total:..... 16	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)
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	1004 Biological Concepts 4	1063 US History 3
1022 Comp/Info Access 2	1223 Tech & Society 3	1044 Basic Physics I 4	1713 Applied Elec. 3
1101 Intro to Technology 1	1433 Visual Basic Prog..... 3	2823 Applied Calculus..... 3	3523 Fab Proc II..... 3
1103 American Gov't..... 3	1613 College Trigonometry 3	3203 CAD I..... 3	Gen Educ Crses 6
1113 English Comp I..... 3	2513 Fab. Proc. I..... 3	Gen Educ Crses..... 3	
1203 Engineering Draft 3	Gen Educ Crses 3	English Proficiency Exam**	
1513 College Algebra..... 3			
Total: 16	Total: 18	Total: 17	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry 4	3113 Industrial Safety 3	3513 Materials Test..... 3	4020 Professional Cert
3143 Tech. Pres. 3	3263 Machine Drafting I..... 3	3433 Automation/Robotics 3	4373 Econ Decision Analy 3
3183 Statics & Strengths 3	3413 Mfg Processes..... 3	3613 Power Systems 3	4443 Materials Handlg F/P 3
3413 Statistical Methods I 3	3463 Mfg Oper I..... 3	4433 Quality Control 3	4454 Comp Aided Mfg..... 4
3813 Electro/Mech Controls..... 3	Elective..... 2	4514 Machine Tool Proc 4	4493 3463 Mfg Oper II..... 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 HOURS43 - 44

Composition.....6

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

Mathematics3

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

Computer Applications.....2

COMSC 1022 **Computers & Information Access**

Natural Sciences8

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 & Government6

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**
KINES 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 41

CHEM 1004 General Chemistry
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 1713 Applied Electronics
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
MFET 4020 Professional Certification Requirements
TECH 4123 Industrial Supervision

Management electives (by advisement) 12

COMSC 1433 Visual Basic Programming
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 Electronic Circuit Analysis
TECH 2813 Adv. Electronic Circuit Analysis
TECH 3823 Industrial Electronics
TECH 4823 Digital Electronics
TECH 4833 Microcomputer Electronics
TECH 4843 Programmable Controllers

Approved Electives 6

Environmental Technology	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
Industrial Supervision	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)	
Manufacturing Technology	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
General Technology	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 (15 of the last 30)	30
Minimum Grade Point Average in all coursework.....	2.00
Minimum Grade Point Average in major	2.00

INDUSTRIAL TECHNOLOGY (CODE 135)
ELECTRONICS TECHNOLOGY 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	1103 American Gov't.....3	1004 Biological Concepts4
1022 Comp/Info Access2	1223 Tech & Society 3	1514 Conc. Phy. Science4	2513 Fabrication Proc I.....3
1101 Intro to Technology 1	1613 College Trig.....3	1813 Electr Circuit Analy3	2813 Adv Elec Circuit Analy3
1113 English Comp I 3	OR 3413 Stat Methods 3	Gen Educ Crses6	Electronic Elective3
1203 Engineering Draft..... 3	OR 3433 Statistics..... 3	English Proficiency Exam**	Gen Educ Crses3
1313 Wood Mat & Proc3	1713 Applied Electronics..... 3		
1513 College Algebra 3	Gen Educ Crse..... 3		
Total: 16	Total 15	Total:16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry.....4	3113 Industrial Safety..... 3	3463 Mfg Oper I.....3	3823 Industrial Electronics.....3
1063 US History 3	3143 Tech Presentation..... 3	4823 Digital Electronics3	4123 Industrial Supv3
3203 CAD I..... 3	3453 Industrial Plastics..... 3	4833 Microcomputer Elect3	Electronic Elective3
3613 Power Systems3	4843 Program Controllers.....3	Gen Educ Crse.....6	Management Elective.....6
Management Elective.....3	Management Elective 3		
Total: 16	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.

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	1004 Gen Chem.....3	1004 Biological Concepts4
1022 Comp/Info Access2	1223 Tech & Society 3	1063 US History3	1103 American Gov't3
1101 Intro to Technology 1	1613 College Trig.....3	1514 Conc Physical Sci4	1203 Gen Chem I3
1113 English Comp I 3	OR 3413 Stat Methods 3	Gen. Educ. Crses.6	1252 Gen Chem I Lab2
1203 Engineering Draft..... 3	OR 3433 Statistics..... 3	English Proficiency Exam**	2513 Fabrication Proc I.....3
1313 Wood Mat & Proc3	1713 Applied Electronics..... 3		
1513 College Algebra 3	Gen Educ Crses 3		
Total: 16	Total: 15	Total:16	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1303 Gen Chem II..... 3	3113 Industrial Safety..... 3	3463 Mfg Oper I.....3	1934 Physical Geology4
1352 Gen Chem II Lab.....2	3173 Environ Reg 3	Management Elective6	3143 Technical Pres3
2204 Intro Zoology 4	3453 Industrial Plastics..... 3	Gen Educ Crse.....3	4123 Industrial Supv3
3203 CAD I..... 3	3613 Power Systems.....3	Tech Elective.....3	Management Elective.....3
Management Elective.....3	Gen Educ Crse..... 3		
Total: 15	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.

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	1022 Comp/Info Access 2	1004 General Chemistry 4	1103 American Gov't 3
1004 Biological Concepts..... 4	1101 Intro to Technology 1	1313 Wood Mat & Proc..... 3	1713 Applied Elec..... 3
1113 English Comp I..... 3	1203 Engineering Draft..... 3	3203 CAD I 3	2513 Fabrication Proc I..... 3
1223 Technology & Society 3	1213 English Comp II 3	Gen Educ Crse..... 6	Gen Educ Crses..... 9
1513 College Algebra..... 3	1514 Conc Physical Sci..... 4	English Proficiency Exam**	
	1613 College Trig 3		
	OR 3413 Stat Methods 3		
	OR 3433 Statistics 3		
Total: 14	Total:..... 16	Total: 16	Total: 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Technical Pres 3	1063 US History 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	3523 Fabrication Process II..... 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	1103 American Gov't 3	1004 Biological Concepts..... 4	1004 General Chemistry..... 3
1101 Intro to Technology 1	1213 English Comp II 3	1063 US History 3	2513 Fabrication Proc 3
1113 English Comp I..... 3	1223 Tech & Society..... 3	1514 Conc Physical Sci 4	Management Elective 3
1203 Engineering Draft 3	1613 College Trig 3	Gen Educ Crses 5	Gen Educ Crses..... 6
1313 Wood Mat & Proc..... 3	OR 3413 Stat Methods 3	English Proficiency Exam**	
1513 College Algebra..... 3	OR 3433 Statistics 3		
Gen Educ Crses 3	1713 Applied Elec..... 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	3143 Technical Pres..... 3	3173 Environ Regulations 3
3463 Manufacturing Ops I..... 3	3413 Manufactg Processes..... 3	3433 Admin 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.

SCHOOL OF BUSINESS AND TECHNOLOGY

DEPARTMENT OF MANAGEMENT AND MARKETING

FACULTY

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The Department of Management and Marketing offers students professional education in business that will facilitate their personal development for careers in business, government, non-profit organizations, teaching, or graduate level study in business. The primary strength of the School's programs is excellence in teaching and individual attention given to students.

The faculty and staff of the Department of Management and Marketing 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 Department's programs are designed to reflect the environment of the many small and medium-sized businesses found in the region. At the same time, large organizations and the significance of today's international trade environment are recognized.

Degree programs are developed around a professional business core. The curricula design leads to a Bachelor of Business Administration (B.B.A.) with majors in Management and Marketing. For post-graduate study, a Master of Business Administration (M.B.A.) degree is offered. See the Graduate Catalog for more information.

The International Assembly for Collegiate Business Education accredits the School of Business for both its undergraduate and graduate programs.

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 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

Majors: B.B.A. Management
B.B.A. Marketing

Minors: Management
Marketing

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
ENTRP	3113	Introduction to MIS
ENTRP	3123	Legal Environment of Business
ENTRP	3423	Business Communications
ENTRP	3823	Quantitative Business Methods
FINAN	3343	Business Finance
MNGMT	3233	Management
MNGMT	4923	Strategic Management and Policy
MRKTG	3143	Principles of Marketing

Related Requirements Outside the School of Business 11

(Must be completed as part of General Education)

MATH	1513	College Algebra OR 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

* One must be taken in the General Education; the other must be taken in the Professional Business Core.

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

Composition6

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 Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 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
ENTRP 3113 Intro to MIS
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communications
ENTRP 3823 Quantitative Business Methods
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing

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

BACHELOR OF BUSINESS ADMINISTRATION MARKETING

GENERAL EDUCATION

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

Courses that are *recommended* are in italics.

TOTAL HOURS.....43 - 44

Composition6

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 Applications2

COMSC 1022 Computer & Information Access

Natural Sciences8

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 & Government6

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

Economic & International Studies6

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

Behavioral, Social, & Cultural Studies6 - 7

PSYCH 1003 General Psychology
SOCIO 1003 Intro to Sociology
____4 World Languages
TECH 1223 Technology and Society
KINES 1133 Wellness Concepts & Exercise Applications

Marketing Major

Code No. 214

Professional Business Core36

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
ENTRP 3113 Intro to MIS
ENTRP 3123 Legal Environment of Business
ENTRP 3423 Business Communications
ENTRP 3823 Quantitative Business Methods
FINAN 3343 Business Finance
MNGMT 3233 Management
MNGMT 4923 Strategic Management and Policy
MRKTG 3143 Principles of Marketing

**One must be taken in the General Education; the other must be taken in the Professional Business Core.*

Required Courses12

ENTRP 4123 Professional Issues
MRKTG 3243 Promotional Strategy
MRKTG 3443 Marketing/Consumer Behavior
MRKTG 4243 Marketing Research

Marketing Electives.....9
3000-4000 Level Marketing (nine 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 & sciences50

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

Minimum credit hours (3000/4000 courses)
in major completed at SWOSU8

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

Minimum Grade Point Average in all coursework2.00

Minimum Grade Point Average in major2.00

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 Govt3	2313 Prin of Acctg II3
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 Crse7	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 Theory3	4133 Prod/Oper Mngmt3
3123 Leg Envrn of Bus..... 3	3343 Bus Finance..... 3	3533 Org Behavior.....3	4923 Strat Mngmt & Pol.....3
3143 Prin of Marketing..... 3	3823 Quant Methods 3	Business Elective ²3	Free Electives 3
3233 Management 3	Free Electives ¹ 6	Free Electives.....6	Mngmt Electives ³ 6
Free Elective..... 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.

¹ Recommended business elective for this major.

² 3000-4000 Level School of Business with advisor approval

³ 3000-4000 Level Management

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 Govt3	2313 Prin of Acctg II3
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 Crse7	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	3423 Bus Comm3	4123 Professional Issues 3
3143 Prin of Marketing..... 3	3343 Bus Finance..... 3	3443 Mrktg/Cons Beh.....3	4923 Strat Mngmt & Pol..... 3
3233 Management 3	3823 Quant Methods 3	4243 Mrktg Research3	Free Electives 6
Free Elective..... 3	Mrktg Elective..... 3	Free Electives.....3	Mrktg Elective 3
	Free Electives 3	Mrktg Elective3	
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.

**Degrees Offered in the
COLLEGE OF PROFESSIONAL AND
GRADUATE STUDIES**

SCHOOL OF NURSING

Dr. Ken Rose, Dean
Dr. Barbara Patterson, Associate Dean

SCHOOL OF NURSING

Nursing – B.S.N.

Nursing – R.N. to B.S.N.

SCHOOL OF NURSING

FACULTY

Barbara Patterson, Associate Dean
School of Nursing
Basement of Stewart Hall, STE B2
Phone: (580) 774-3261
Email: barbara.patterson@swosu.edu
<http://www.swosu.edu/nursing/>

D. Burnett	STE B03	daphne.burnett@swosu.edu	(580) 774-7168
C. Kish	STE B06	carol.kish@swosu.edu	(580) 774-3180
D. Knox	STE B10	diana.knox@swosu.edu	(580) 774-3092
V. Montgomery	STE B04	vicki.montgomery@swosu.edu	(580) 774-3178
B. Walters	STE B09	betty.walters@swosu.edu	(580) 774-3258
T. Weimer	STE B11	tamra.weimer@swosu.edu	(580) 774-7007
K. Wolff	STE B08	kathy.wolff@swosu.edu	(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 Southwestern Memorial Hospital, Weatherford; Integris Clinton Regional Hospital, Clinton; Great Plains Regional Medical Center, Elk City; St. Anthony Hospital, OU Medical Center, Everett Tower, Children's Hospital, Integris Southwest, and VA Medical Center, Oklahoma City; Headstart Programs, day care, and senior citizen centers; area health departments, schools, home health care agencies, and other sites.

Financial Information

Financing the professional nursing program is the responsibility of the student. Application for financial aid is through the Office of Student Financial Services. Additional sources of financial aid are available after the student is accepted into the major.

Fees and Charges

The following fees and charges are the financial responsibility of the student:

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 the first Monday of February. The student will receive official notification regarding acceptance by the end of the spring semester.

Application and Selection

The faculty of the School of Nursing establish the operating policies and methods of applicant selection.

The Admissions Committee relies heavily on objective criteria such as quality and consistency of academic performance. Pre-professional requirements, GPA, and character references are among the factors considered.

The School of Nursing selects the best-qualified students. High motivation, scholastic excellence, and interest in and for a progressive nursing profession are perceived as desirable characteristics for future members of a health care team. The number of applicants accepted will reflect the appropriate student-faculty ratio to meet the program goals and the availability of appropriate clinical resources.

Advanced Standing Examinations (Pre-Professional)

Advanced standing examinations are a means by which a student may receive credit for certain courses by examination. Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are available for challenge of some courses in the pre-nursing curriculum. No more than 31 hours in the lower division may be challenged and applied toward the Bachelor of Science in Nursing degree.

Registered Nurse Students

Southwestern Oklahoma State University admits registered nurses (R.N.'s) from either diploma or associate degrees in nursing programs who wish to obtain a Bachelor of Science in Nursing degree. The R.N. student may receive credit through advanced standing for 31 hours of upper division nursing coursework. Advanced standing is accomplished through articulation under the statewide articulation plan. All R.N. students must meet University admission requirements. Faculty believe the R.N. student has demonstrated adequate knowledge of pre-professional coursework to obtain either an associate degree or a diploma in nursing. Therefore, the faculty believe that the R.N. student need not be constrained by the prescriptive schedule designed for the generic student. The R.N. student's education may therefore be facilitated by allowing the student to take pre-professional courses at any time and in any sequence prior to graduation.

Application and Selection

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 completed 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 online 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 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

Composition6

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 Sciences8

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 & Government6

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

Economic & International Studies6

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
***KINES 1133 Wellness Concepts & Exercise**
Applications

*KINES 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 SWOSU8

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

Minimum Grade Point Average in all coursework2.00

Minimum Grade Point Average in major2.00

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 4282 Elective II
NURS 4293 Transition Into Professional Practice

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 Requirements21-22

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 credits30-31

Professional Requirements R.N. to B.S.N. Students 30

NURS 4212 Bridging Nursing Paradigms*
NURS 4225 Community Nursing Across the Health
Continuum
NURS 4502 Statistics for Nursing Research
OR PSYCH 2433 Psychological Statistics
NURS 4515 Wellness Through Health Promotion
NURS 4522 Nursing Research I
NURS 4523 Theory and Practice Elective
NURS 4532 Nursing Research II**
NURS 4535 Contemporary Nursing Leadership
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

American Indian Studies
Art
Art History
Biological Sciences
Chemistry
Communication Arts
Criminal Justice
Economics
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

AMERICAN INDIAN STUDIES

CODE 104

Required Courses..... 10-11

AMIS	1001	Introduction to American Indian Studies
AMIS	2123	Tribal Government and Sovereignty
HIST	4103	American Indians
Three to four hours of required American Indian studies courses must be obtained from the following courses:		
AMIS	2004	(Tribe) Language I
AMIS	3004	(Tribe) Language II
AMIS	2133	Literature of the American Indian
AMIS	2103	American Indians Today

Electives.....9-10

ACCTG	1123	Introduction to Accounting
ACCTG	2213	Principles of Accounting I
AMIS	1011-3	Seminar in Am Indian Studies
AMIS	2001-3	Independent Study in American Indians
AMIS	2103	American Indians Today
AMIS	2133	Lit of Am Indian
AMIS	2403	Special Topics on the American Indians I
AMIS	2413	Tribal Economics
AMIS	2603	(Tribe) History
AMIS	3004	(Tribe) Language II
AMIS	3403	Special Topics on the Amer. Indians II
AMIS	4011-3	Seminar in American Indian Studies
AMIS	4333	Religion of the American Indian
ART	2013	Art of the American Indian
GEBUS	1123	Introduction to Business
HIST	4353	History of Oklahoma
KINES	1153	Nutrition
KINES	3393	Nutrition for Children
KINES	4013	Nat Amer Wellness Concepts: Exercise
LIT	3513	Literature of the American West
LIT	4593	Diversity in American Literature
MUSIC	4013	Music in Native American

Total.....20

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	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	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

ART HISTORY

CODE 106

Required Courses..... 21

HIST	1033	World History
ART	3013	American Art History
ART	3613	History of Art I
ART	3653	History of Art II
ART	4353	Modern Art History
ART	4383	Art History Since 1945
ART	4393	Non-Western Art Survey

Total 21

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 Communication
COMM	2123	Interpersonal Communication

Electives from Communication Arts..... 12

Total 21

CRIMINAL JUSTICE

CODE 107

Required Courses..... 15

CRMJS	1113	Introduction to Criminal Justice
CRMJS	3163	Sociology of Deviant & Crim Behavior
CRMJS	3243	Comparative Criminal Justice Systems
CRMJS	4103	Juvenile Justice
CRMJS	4153	U.S. Corrections

Electives 3

CRMJS	1223	Intro to Law Enforcement
CRMJS	2503	Criminal Justice Administration
CRMJS	3353	The Criminal Mind
CRMJS	3803	Privatization of Criminal Justice
CRMJS	4143	Critical Issues in Criminal Justice
CRMJS	4333	Victimology

CRMJS	4913	Internship in Criminal Justice
SOCIO	3043	Racial and Cultural Minorities
SOCIO	4033	Advanced Analysis of Social Problems
Total		18

ECONOMICS CODE 154

Required Courses		6-9
ECONO	2263**	Principles of Macroeconomics
ECONO	2363**	Principles of Microeconomics
ECONO	2463	Business Statistics
	OR SOCSC 3853	Statistics for Social Sciences)
(** If taken for General Education, the hours will not count towards Economics minor.)		
Electives		9-12
ECONO	3863	Money and Banking
ECONO	4003	Independent Study in Economics
ECONO	4013	Seminar in Economics
ECONO	4563	Managerial Economics
ECONO	4963	International Economics
Total		18

ENGLISH CODE 112

Required Courses		12
ENGL	3603	English Grammar
(American Literature – select <i>one</i> of the following)		
LIT	3323	Modern Voices in American Literature
LIT	4553	Issues in American Literature
(English Literature – select <i>one</i> of the following)		
LIT	4123	British Literature 1795-1950
LIT	4763	British Literary Heritage to 1800
(Advanced Writing – select <i>one</i> of the following)		
ENGL	3473	Beginning Creative Writing of Fiction
ENGL	3483	Beginning Creative Writing of Poetry
ENGL	3553	Writing for the Workplace
ENGL	4453	Advanced Composition
ENGL	4553	Technical Writing and Editing
ENGL	4653	Writing for Multimedia
ENGL	4663	Creative Nonfiction

Electives (Senior Level-LIT or ENGL)8-9 hours
 An English minor is encouraged to complete at least four hours of one foreign language. Additional hours are strongly recommended.

Total20-21 hours

Writing Emphasis

Guided Electives (select four of the following)		12 hours
ENGL	3113	Contemporary Fiction
ENGL	3123	Contemporary Poetry
ENGL	3473	Beginning Creative Writing of Fiction
ENGL	3483	Beginning Creative Writing of Poetry
ENGL	3553	Writing for the Workplace
ENGL	3603	English Grammar
ENGL	4423	Introduction to Linguistics
ENGL	4453	Advanced Composition
ENGL	4473	Advanced Creative Writing of Poetry
ENGL	4483	Advanced Creative Writing of Fiction
ENGL	4553	Technical Writing and Editing
ENGL	4653	Writing for Multimedia
ENGL	4663	Creative Nonfiction

Two LIT courses (one must be 3000 or 4000) 6 hours
 (Note: LIT 4463 Children's Literature does not count for credit in the English major)

Department-wide elective 3 hours

Total 21 hours

GRAPHIC DESIGN CODE 102

Required courses		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
	OR MATH 1513 and MATH 1613	
MATH	1834	Calculus I
MATH	2834	Calculus II
Electives (Senior College Mathematics)		4-5
(3000-4000 Level Courses)		
Total		18

MULTIDISCIPLINARY STUDIES CODE 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.

Multidiscipline Area	Sub-Disciplines
Communication	Communication Arts, Foreign Language, Language & Literature
Fine Arts and Humanities	Art, Communication Arts, Music, Literature, Philosophy, History, American Indian Studies
HPE, Parks & Rec Mgmt and Life Sciences	HPE, PRM, Athletic Training, Allied Health, and Life Sciences
Mathematics and Science	Life and Physical Sciences, Allied Health, and Mathematics
Behavioral/Social Science	Psychology, History, Criminal Justice, Economics, Social Work , Political Science, Sociology (A minimum of 12 of the 18 hours must be 3000 or 4000 level courses)
Technology	Computer Science, Mathematics, Technology, Physics
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 World Music
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 4253 International Law	
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 3653 Intermediate Spanish Conversation	
SPAN 3753 Readings in Spanish	

Electives 2-3

SPAN 3853 Intermediate Spanish Comp & Grammar	
SPAN 4012/3 Seminar in Spanish	
SPAN 4553 Studies in Spanish Abroad/Internship	
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
Microbiology

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 AND TECHNOLOGY

Accounting
Finance
General Business
Management
Marketing
Computer Science
Computer Technology
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, Recreational Leadership, and majors other than HIM and Athletic Training.

Required Courses14

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	3043	Health Statistics
ALHLT	3053	Advanced Medical Terminology
ALHLT	3072	Applied Medical Vocabulary
ALHLT	4001-2	Individual Studies in Allied Health
ALHLT	4074	Pathophysiology
ALHLT	4112	Quality Improvement
ALHLT	4355	Microbiology

Total 18 - 20

HEALTH CARE ADMINISTRATION MINOR FOR HEALTH INFORMATION MANAGEMENT

CODE 550

Required Courses18

ALHLT	3043	Health Statistics w/lab
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
ALHLT	4112	Quality Improvement

Total18

HEALTH CARE ADMINISTRATION MINOR FOR ATHLETIC TRAINERS

CODE 550

Required Courses 23

ALHLT	1401	Allied Health Careers
ALHLT	2442	Medical Terminology
ALHLT	3043	Health Statistics w/lab
ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Care Insti
ALHLT	3963	Health Care Administration
OR ALHLT 4043 Medicolegal Concepts		
BIOL	3704	Human Anatomy
BIOL	3904	Human Physiology
OR BIOL 2714 Human Anatomy and Physiology		

Total 23

MICROBIOLOGY MINOR

CODE 118

Required Courses 8

ALHLT	4093	Epidemiology
ALHLT	4355	Microbiology

Select one or more of the four courses listed.....3-4

ALHLT	4213	Immunology
ALHLT	4313	Medical Parasitology
ALHLT	4404	Pathogenic Microbiology
ALHLT	4453	Virology

Electives.....8-9

ALHLT	3043	Health Statistics
ALHLT	4074	Pathophysiology
ALHLT	4213	Immunology
ALHLT	4313	Medical Parasitology
ALHLT	4404	Pathogenic Microbiology
ALHLT	4453	Virology
ALHLT	4503	Microbial Physiology
ALHLT	4523	Environmental Microbiology
ALHLT	4802	History of Medicine
BIOL	2964	Molecular Biology
BIOL	3254	Genetics

Total..... 20

MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

PSYCHOLOGY CODE 160

Required Courses 6

6 hours from the following:

PSYCH	2423	Social Psychology
PSYCH	3333	Behavior Management
PSYCH	3363	Psychology of Personality

Electives 14-15

PSYCH	2423	Social Psychology
PSYCH	2433	Psychological Statistics
PSYCH	3201-4	Contemporary Problems in Psychology
PSYCH	3213	Developmental Psychology
PSYCH	3224	Research Methods
PSYCH	3233	Learning and Memory
PSYCH	3243	Cross-Cultural Psychology
PSYCH	3253	Psychological Tests
PSYCH	3323	Abnormal Psychology
PSYCH	3333	Behavior Management
PSYCH	3363	Psychology of Personality
PSYCH	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	4133	Psychology of Sports
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 14

PHARM	4602	Substance Abuse & Addiction
*PSYCH	3323	Abnormal Psychology
*PSYCH	4113	Issues in Chemical Dependency Treatment
*PSYCH	4123	Theories & Principles of Psychotherapy
SOCWK	2503	Intro to Social Work

Electives 6

ALHLT	4093	Epidemiology
EDPSY	3433	Adolescent Psychology
PSYCH	3333	Behavior Management
PSYCH	3243	Cross-Cultural Psychology
PSYCH	4313	Introduction to Clinical Psychology

Total 20

*See Psychology Prerequisites

CHILD DEVELOPMENTAL PSYCHOLOGY CODE 163

Required Courses 12

EDPSY	3413	Child Psychology
EDPSY	3433	Adolescent Psychology
PSYCH	3333	Behavior Management
PSYCH	4533	Language Development

Electives 9

EDPSY	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

ECONO	2463	Business Statistics
MATH	3413	Statistical Methods I
PSYCH	2433	Psychological Statistics
SOCSC	4853	Statistics for Social Sciences

Required Classes 12

MNGMT	3333	Personnel/Human Resource Management
PSYCH	3253	Psychological Tests
PSYCH	3363	Psychology of Personality
PSYCH	3503	Industrial/Organizational Psychology

Electives 9

MNGMT	3233	Management
MRKTG	3143	Principles of Marketing
PSYCH	2423	Social Psychology (<i>Recommended</i>)
PSYCH	3243	Cross-Cultural Psychology
PSYCH	3333	Behavior Management
PSYCH	4013	Seminar In Psychology (Applied Psych)

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
KINES	2502	Care and Prevention of Athletic Injury
KINES	3443	Kinesiology and Anatomy
KINES	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
KINES	2242	Sports Officiating
KINES	4052	Sociology of Sport
KINES	4063	Legal Aspects of Physical Education, Recreation and Athletics
KINES	4122	Organization and Administration of Athletics
KINES	4222	Organization and Administration of Intramural Sports
PRM	4502	Rodeo Management

Sport and Recreation Activity Specialization		6
KINES	1932	Techniques Applied to Gymnastics, Fitness, and Aquatics
KINES	1942	Techniques Applied to Individual Sports
KINES	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 Mgmt
PRM	4993	Internship in Professional Park Law Enforcement (120 hours)

Choose four to five hours from the following courses4-5

PRM	3161	Lifeguarding
PRM	3441	High Angle Rescue
OR 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 Envrnmt I
SOCWK	3273	Human Behavior & Social Envrnmt 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 AND TECHNOLOGY

(Business Minors are limited to students with major other than Accounting, Entrepreneurship
Finance, Management, and Marketing)

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, Economics, Entrepreneurship, Finance, Math above College Algebra, or Computer Science above 1022 (three hours).			
Total.....			18

ENTREPRENEURSHIP			CODE 217
Required Courses.....			18
ACCTG	2213	Principles of Accounting I	
GEBUS	3423	Business Communications	
MNGMT	3233	Management	
MRKTG	3143	Principles of Marketing	
3000-4000 Level Electives from Accounting, Economics, Entrepreneurship, Finance, Management, or Marketing (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, Economics, Entrepreneurship, Finance, Management, or Marketing (six hours).			
Total.....			18

MARKETING			CODE 214
Required Courses.....			18
MRKTG	3143	Principles of Marketing	
MRKTG	3243	Promotional Strategy	
OR MRKTG	4243	Marketing Research	
MRKTG	3443	Consumer Behavior	
3000-4000 Level Electives from Marketing (six hours), Accounting, Economics, Entrepreneurship, Finance, or Management (three hours)			
Total.....			18

COMPUTER SCIENCE			CODE 110
Required Courses.....			9
COMSC	1033	Computer Science I	
COMSC	1053	Computer Science II	
COMSC	3013	Computer Architecture	
OR COMSC 2413 Data Structures			
Computer Science Electives			9
1000/2000 level Computer Science Electives (0-3 hours)			
3000/4000 level Computer Science Electives (6-9 hours)			
Total			18

INFORMATION SYSTEMS			CODE 109
Required Courses.....			9
COMSC	1033	Computer Science I	
OR COMSC 1433 Visual Basic Programming			
INFS	1103	Introduction to Information Security	
INFS	2503	Information Systems in Organizations	
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	4000	Extra-Institutional Learning	
TECH	4813	Networking Electronics	
TECH	4823	Digital Electronics	
TECH	4833	Microcomputer Electronics	
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

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-Clinical Laboratory Science

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 advisors 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, Department of Chemistry and Physics, 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 Health Care Administration. Many of the courses for this minor are also completed during the pre-professional sequence. When most of these courses are completed, students may apply for admission into the professional Health Information Management Program, which begins each fall. Applications are available 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 Faculty 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 advisors and services for pre-law students. It is suggested that interested students contact the pre-law advisors in these fields. The Department of Social Sciences offers a social science (pre-law) minor described elsewhere in this catalog.

PRE-CLINICAL LABORATORY SCIENCE

Pre-Clinical Laboratory Science students must fulfill the general education and the Pre-Clinical Laboratory Sciences 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-Clinical Laboratory Science program but should seek advisement from the Clinical Laboratory Science faculty in the School of Allied Health Sciences.

The clinical training portion of the Clinical Laboratory Science 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, Department of Chemistry and Physics, 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, and character references are among the 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, Department of Chemistry, 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 advisor in the Department of Biological Sciences.

COURSE DESCRIPTIONS

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer,
D = Classes offered upon Demand, O = Odd years, E = Even years)

Explanation of Course Numbers

The course number indicates the degree of advancement. Generally, courses with the lowest numbers should be completed first. Lower-division courses (1000-2000) are generally considered freshman and sophomore courses. Upper-division courses (3000-4000) are generally considered junior and senior courses. Courses numbered in the 5000 series are graduate courses; however, some 3000-4000 courses may be taken for graduate credit. 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 into practice. Students will build critical thinking skills by constructing their own messages and evaluating those of others. This course is designed to heighten student's skills as well as increase their confidence as public speakers. **F, S, SU**

COMSC 1022 COMPUTERS & INFORMATION ACCESS

Introduction to computers, computer software, and the use of computers to access information for general education students. Includes an introduction to computer hardware, microcomputer operating systems, and computer applications, including word processors, spreadsheets, e-mail, and the Internet. **F, S, SU**

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**

KINES 1133 WELLNESS CONCEPTS AND EXERCISE APPLICATIONS

This course is designed to provide the student with a philosophy of living that encourages a higher quality of life and a state of well-being. Lifestyle choices are identified and explained in regard to proper exercises, weight management, stress management, substance use, sexually transmitted diseases, health care, nutrition, cardiovascular disease prevention, and cancer prevention. Assessment techniques and development of individual prescriptions in the areas of muscular strength, muscular flexibility cardiovascular endurance, body composition, and nutrition are studied. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. **F, S, SU**

LIT 2413 INTRODUCTION TO LITERATURE

The study of short stories, poetry, and drama. **F, S, SU**

MATH 1143 MATH CONCEPTS

An introduction to mathematical ideas and their applications. Topics are chosen from set theory, logic, probability and statistics, 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

MUSIC 1013 INTRODUCTION TO MUSIC I

Introduction to the history of music and musical styles. **F, S, SU**

PHILO 1453 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**

WORLD LANGUAGES _ _ _ 4

Fundamentals of grammar taught in order to acquire facility in all four language skills: reading, writing, speaking, and understanding the spoken language; limited introduction to the culture. **F,S,SU**

* *Descriptions for World Language courses are listed under the Language and Literature Department.*

** *Or a higher numbered 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. **D**

GSTDY 1322 OLD TESTAMENT SURVEY

A beginning course briefly touching all the Old Testament books with a general geographic, sociological, and literary background. **D**

GSTDY 1441 COLLEGE SUCCESS

College Success is designed to enhance students' skills in becoming successful college students. The course will address topics including time management, learning styles, note taking, test taking, reading skills, etc. The course is required for students placed on academic suspension, suggested for those who are placed on academic probation and open to all students interested in enhancing their skills as students.

GSTDY 1711 BEGINNING PERSONAL SAFETY

Beginning theories, principles, and strategies of self-defense. Intended for those in the helping professions of criminal justice, psychology, social work, health care, counseling, and education, as well as in customer relations (business and management) and anyone else interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of the policies and practices in force at prospective employers. **D**

GSTDY 1721 INTERMEDIATE PERSONAL SAFETY

Intermediate theories, principles, and strategies of self-defense. Intended for those in the helping professions of criminal justice, psychology, social work, health care, counseling, and education as well as in customer relations (business and management) and anyone else interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of the policies and practices in force at prospective employers. **Prerequisite: GSTDY 1711. D**

GSTDY 1731 ADVANCED PERSONAL SAFETY

Advanced theories, principles, and strategies of self-defense. For those in the helping professions of criminal justice, psychology, social work, health care, counseling, education, customer relations, and others interested in acquiring self-defense resources. Students learn by demonstrations, practice with appropriate equipment, projects intended to increase safety on the job, at home, while traveling, etc., and study of employment policies and practices. Also included is a safety-based project supported by academic research coordinated with a professor in the student's field of study. **Prerequisites: GSTDY 1711 and GSTDY 1721. D**

GSTDY 2022 LIFE AND TEACHINGS OF JESUS

A course surveying the life of Jesus and emphasizing the nature and methods of his teachings. **D**

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. **D**

GSTDY 2033 COMPARATIVE RELIGION

An introduction to the various religions of the world for comparative analysis and historical study. **D**

COMPUTER ASSISTED INSTRUCTION

GSTDY 1901 BASIC WINDOWS XP

Self-paced study in using Basic Windows XP as part of a two-part series covering fundamental Windows usage, multimedia usage, basic network use, and file management and maintenance

GSTDY 1901 BASIC PHOTOSHOP 7

A self-paced study of Adobe Photoshop 7 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Photoshop, working with layers, making selections, incorporating color techniques, placing type in an image, using painting tools, creating special effects with filters, adjusting colors, performing image surgery, annotating and automating an image, and creating images for the Web.

GSTDY 1902 PAGEMAKER 7 I

A self-paced study of Adobe Pagemaker 7 as part of a two-part series covering introductory through advanced concepts in using the application. Topics include using the story editor, using the color management system, automating PageMaker processes, using HTML files, and working with PDF documents.

GSTDY 1901 BASIC INTERNET EXPLORER

Self-paced study for using Microsoft Internet Explorer as part of a two-part series. Topics include using the browser, researching information, using search engines, and communication via the web.

GSTDY 1901 BASIC ILLUSTRATOR 10

A self-paced study of Adobe Illustrator 10 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Illustrator; creating text and gradients; drawing and composing an illustration; transforming and distorting objects; working with layers, patterns, brushes, filters, and transparencies; and preparing prepress and web documents.

GSTDY 1901 BASIC WORD 2003

A self-paced study of Microsoft Word 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

GSTDY 1901 BASIC EXCEL 2003

A self-paced study of Microsoft Excel 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

GSTDY 1901 BASIC POWERPOINT 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show, modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

GSTDY 1901 BASIC ACCESS 2003

A self-paced study of Microsoft Access 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database, maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

GSTDY 1901 BASIC FRONTPAGE 2003

A self-paced study of Microsoft Frontpage 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include Web page components, Web design criteria, FrontPage templates, the FrontPage Editor, form handlers, inserting tables, images, and photographic images onto Web pages, applying special formatting features, creating forms in a Web page, and creating frames Web pages.

GSTDY 1901 BASIC PUBLISHER 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and editing a publication; designing a newsletter, brochure, or web site; creating business forms; and integrating Publisher with other Office applications.

GSTDY 1901 BASIC MS PROJECT 2003

Self-paced introduction to Microsoft Project 2003. Topics include creating a project, adding tasks, assigning resources, leveling resources, reports, Gantt charting, PERT, and CPM.

GSTDY 1902 BASIC MM FLASH MX 2004

A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

GSTDY 1901 BASIC EXCEL ENGINEER & TECH

Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

GSTDY 1901 INTERMEDIATE EXCEL ENGINEER & TECH

Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

GSTDY 2901 ADVANCED EXCEL ENGINEER & TECH

Self-paced study of Excel as part of a three-part series focusing on engineering & technical situations emphasizing problem solving, simulation, and decision making.

GSTDY 2901 INTERMEDIATE WINDOWS XP

Self-paced study in using Basic Windows XP as part of a two-part series covering fundamental Windows usage, multimedia usage, basic network use, and file management and maintenance.

GSTDY 2901 INTERMEDIATE PHOTOSHOP 7

A self-paced study of Adobe Photoshop 7 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Photoshop, working with layers, making selections, incorporating color techniques, placing type in an image, using painting tools, creating special effects with filters, adjusting colors, performing image surgery, annotating and automating an image, and creating images for the Web.

GSTDY 2902 PAGEMAKER 7 II

A self-paced study of Adobe Pagemaker 7 as part of a two-part series covering introductory through advanced concepts in using the application. Topics include using the story editor, using the color management system, automating PageMaker processes, using HTML files, and working with PDF documents.

GSTDY 2901 ADVANCED PHOTOSHOP 7

A self-paced study of Adobe Photoshop 7 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Photoshop, working with layers, making selections, incorporating color techniques, placing type in an image, using painting tools, creating special effects with filters, adjusting colors, performing image surgery, annotating and automating an image, and creating images for the Web.

GSTDY 2901 INTERMEDIATE INTERNET EXPLORER

Self-paced study for using Microsoft Internet Explorer as part of a two-part series. Topics include using the browser, researching information, using search engines, and communication via the web.

GSTDY 2901 INTERMEDIATE ILLUSTRATOR 10

A self-paced study of Adobe Illustrator 10 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include getting started with Illustrator; creating text and gradients; drawing and composing an illustration; transforming and distorting objects; working with layers, patterns, brushes, filters, and transparencies; and preparing prepress and web documents.

GSTDY 2901 ADVANCED WORD 2003

A self-paced study of Microsoft Word 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

GSTDY 2901 ADVANCED EXCEL 2003

A self-paced study of Microsoft Excel 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

GSTDY 2901 ADVANCED POWERPOINT 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show, modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

GSTDY 2901 ADVANCED ACCESS 2003

A self-paced study of Microsoft Access 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database, maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

GSTDY 2901 ADVANCED PUBLISHER 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and editing a publication; designing a newsletter, brochure, or web site; creating business forms; and integrating Publisher with other Office applications.

GSTDY 2901 INTERMEDIATE ACCESS 2003

A self-paced study of Microsoft Access 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and using a database, querying a database, maintaining a database, sharing data among applications, reports, forms, and using Visual Basic for Applications.

GSTDY 2901 INTERMEDIATE EXCEL 2003

A self-paced study of Microsoft Excel 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating spreadsheets, functions and formulas, formatting, web features, Visual Basic for Applications, querying data, and using various Excel features.

GSTDY 2901 INTERMEDIATE POWERPOINT 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a presentation, creating a slideshow, creating a presentation on the Web, using visuals to enhance a slide show, modifying visual elements and presentation formats, collaboration, and working with macros and Visual Basic for Applications.

GSTDY 2901 INTERMEDIATE PUBLISHER 2003

A self-paced study of Microsoft PowerPoint 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating and editing a publication; designing a newsletter, brochure, or web site; creating business forms; and integrating Publisher with other Office applications.

GSTDY 2901 INTERMEDIATE WORD 2003

A self-paced study of Microsoft Word 2003 as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a variety of documents, adding many document features, collaboration, and creating web documents.

GSTDY 2902 ADVANCED MM FLASH MX 2004

A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application.. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

GSTDY 2902 INTERMEDIATE MM FLASH MX 2004

A self-paced study of Macromedia Flash MX 2004 as part of a three-part series covering introductory through advanced concepts in using the application.. Topics include text and symbols, creating animations, adding buttons and behaviors, using bitmaps, gradients, publishing, creating a Flash web site, and adding interactivity.

GSTDY 1901 BASIC PHOTOSHOP CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include working with layers; making selections; incorporating color techniques; placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image; and creating images for the Web.

GSTDY 2901 INTERMEDIATE PHOTOSHOP CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include working with layers; making selections; incorporating color techniques; placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image; and creating images for the Web.

GSTDY 2901 ADVANCED PHOTOSHOP CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include working with layers; making selections; incorporating color techniques; placing type in an image; using painting tools; working with special layer functions; creating special effects with filters; enhancing specific selections; adjusting colors using clipping masks, paths, and shapes; transforming type; liquefying an image; performing image surgery; annotating and automating an image; and creating images for the Web.

GSTDY 1901 BASIC INDESIGN CS

A self-paced study of Adobe InDesign CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include exploring the workspace, changing views, navigating, formatting text and paragraphs, creating and applying styles, creating and using master pages, placing text and thread text, creating sections, aligning and distributing objects on a pages, stacking and layering objects, working with frames, and working with colors.

GSTDY 2901 INTERMEDIATE INDESIGN CS

A self-paced study of Adobe InDesign CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include exploring the workspace, changing views, navigating, formatting text and paragraphs, creating and applying styles, creating and using master pages, placing text and thread text, creating sections, aligning and distributing objects on a pages, stacking and layering objects, working with frames, and working with colors.

GSTDY 2901 ADVANCED INDESIGN CS

A self-paced study of Adobe InDesign CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include exploring the workspace, changing views, navigating, formatting text and paragraphs, creating and applying styles, creating and using master pages, placing text and thread text, creating sections, aligning and distributing objects on a pages, stacking and layering objects, working with frames, and working with colors.

GSTDY 1901 BASIC ILLUSTRATOR CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

GSTDY 2901 INTERMEDIATE ILLUSTRATOR CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

GSTDY 2901 ADVANCED ILLUSTRATOR CS

A self-paced study of Adobe Photoshop CS as part of a three-part series covering introductory through advanced concepts in using the application. Topics include creating a document, creating basic shapes, applying fill and stroke color to objects, placing objects, working with guides, transforming objects, creating and formatting text, creating colors and gradients, applying colors and gradients, drawing, attributes, assembly, paths, clipping masks, layers, and paths.

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. **D**

ART 1213 PERSPECTIVE

An introduction to the essentials of beginning perspective and advanced perspective devices. Both linear and atmospheric perspective are covered. **Prerequisites: ART 1123 and ART 1133. D**

ART 1223 ART SURVEY

This General Education course traces the history of art from prehistory to the present. Emphasis is on art of the western world from antiquity through the modern era. Among the topics covered are the art of Renaissance Europe, Impressionism and Post-Impressionism, as well as ways of seeing and the influence of non-Western cultures. **F, S**

ART 1661 COMPUTER ASSISTED INSTRUCTION/BASIC MACROMEDIA FLASH 5

Self-paced study in using Basic Macromedia Flash 5. Understanding of graphic arts.

ART 2113 ACRYLIC TECHNIQUES

Beginning level easel painting course focusing on development of student's individual expression in form and color. **Prerequisites: ART 1123 and ART 1133. D**

ART 2133 INTRODUCTION TO GRAPHIC DESIGN

Introduces graphic design as a means of visual communication. Formal principles of design, semantics, symbol theory, and theory of communication will be studied. Macintosh graphics and illustrator will also be studied in the execution of the class projects. Previous computer experience is not required. **Prerequisites: Art 1123 and ART 1133. F**

ART 2143 HISTORY AND THEORY OF GRAPHIC DESIGN

This is a five part survey of the history of graphic design, including the influences of Modern Art and the Bauhaus on graphic design. Course work concludes with the effects of the information age and the global village on graphic design. **Prerequisites: Art 1123 and Art 1133. S**

ART 2631 COMPUTER ASSISTED INSTRUCTION/INTERMEDIATE MACROMEDIA FLASH 5

Self-paced study in using Intermediate Macromedia Flash 5. Understanding of graphic arts.

ART 3011-4 SEMINAR IN ART

Group study of specific topics needed for special courses offered on an irregular basis.

ART 3113 WATERCOLOR STUDIO

Study and practice of traditional transparent watercolor technique, and experimentation with contemporary methods. Emphasis on composition, color, process and technique. **Prerequisites: ART 1123 and ART 1133. D**

ART 3153 FIGURE DRAWING

Develop skills of draftsmanship and perception while studying the figure. **Prerequisites: ART 1123 and ART 1133. D**

ART 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. **Prerequisites: Art 1123, ART 1133 and ART 2133. D**

ART 3353 CLAY STUDIO

A study in ceramic design using both hand built and wheel methods of construction. Firing and glazing procedures will also be covered. **F, S, SU**

ART 3413 SCULPTURE STUDIO

Three-dimensional work in the area of sculpture. Emphasis is placed on fundamental sculpture techniques and the elements of art and principles of design as applied in a three-dimensional composition. **Prerequisites: ART 1123, ART 1133 and ART 1143. D**

ART 3483 PRINTMAKING STUDIO

Printmaking by hand transfer and with the press. Composition and personal expression are emphasized. Intaglio and relief methods are explored. **Prerequisites: ART 1123 and ART 1133. F, S**

ART 3513 MEDIA FOR ARTISTS

Introduction to web design using Dreamweaver and Flash programs. **Prerequisites: ART 1123, ART 1133 and ART 2133. F**

ART 3613 HISTORY OF ART I

A survey of art from prehistory through the Gothic era, this course considers the visual culture of Ancient Egypt, Mesopotamia, Greece and Rome, the influence of non-Western cultures on Christian art in the west, the art and architecture of Early Christian and Byzantine Europe, and the rise of the Romanesque and Gothic styles. **D**

ART 3653 HISTORY OF ART II

Continuing the survey of art begun in ART 3613, this course follows the Renaissance development of modern ways of seeing, the rise of the Baroque and Rococo, the battle between Neoclassicism and Romanticism during the early nineteenth century, and the optical experiments of the Impressionists and Post-Impressionists. **D**

ART 3683 ILLUSTRATION STUDIO

Visual communication is stressed, expressing both the artist and the subject matter. Traditional illustration media includes marker, color pencil, airbrush, watercolor, acrylic and oil paint. **Prerequisites: ART 1123, ART 1133 and ART 2133. D**

ART 3753 LIFE DRAWING

Observational drawing with an emphasis on composition. Various techniques and subjects will be explored. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 3783 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 1123, ART 1133, and ART 2133. **D**

ART 3853 TYPOGRAPHIC DESIGN

Course content includes the anatomy of typographical letter forms, fonts and classifications. Syntax, space, visual hierarchy, typographical grids, function, expression and communication theory are stressed. Course work will be done on Power Macintosh computers, using Quark/Xpress and Adobe Illustrator software. **Prerequisites:** ART 1123, ART 1133, and ART 2133. **D**

ART 3883 ADVERTISING DESIGN

Course work includes logo and corporate identity development. Traditional advertising formats are studied and applied to a fictional company created by the student. **Prerequisites:** ART 2133, ART 2143, and ART 3853. **D**

ART 3923 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. **D**

ART 3953 PROFESSIONAL PRACTICES OF GRAPHIC DESIGN

This course provides the student practical real-world experience in the field of design. It should be approached as an internship, and subsequently the requirements can be achieved effectively through a summer internship with an appropriate agency under supervision of an instructor. Not recommended for Design Studio Employees. **Prerequisites:** ART 2133, ART 2143 and ART 3853. **D**

ART 4001-4 INDIVIDUAL STUDY IN ART (TOPIC)

Individual study of specified topic for undergraduate students. Credit 1 to 4 semester hours.

ART 4011-4 SEMINAR IN ART (TOPIC)

Group study of specified topic for undergraduate students. Credit 1 to 4 semester hours. **D**

ART 4163 PORTFOLIO

The objective of this course is to prepare Graphic Design majors for the job market. Students will research the current job market and prepare a career plan. A portfolio will be created with a resume, a self-promotional mailer and 35 mm slides. **Prerequisite:** Sr. Status. **S**

ART 4253 APPLIED DESIGN

A studio course involving the design, execution and the study of contemporary trends in crafts. **Prerequisites:** ART 1123 and ART 1133. **SO**

ART 4313 PAINTING STUDIO

An exploration of opaque painting techniques and processes. The development of pictorial form and content is emphasized. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 4333 STUDIO DRAWING

Studio Drawing will explore creative and expressive approaches to drawing with an emphasis on diversity of techniques. Experiences utilizing a variety of media will be used to develop fundamental and advanced drawing concepts. **Prerequisites:** ART 1123 and ART 1133. **S**

ART 4353 MODERN ART HISTORY

This course, continuing the survey of art begun in ART 3613 and ART 3653, investigates the history of painting, sculpture and architecture from the late nineteenth century through World War II. Symbolism, Post-Impressionism, Cubism and Expressionism are among the trends discussed, as are the art of Picasso, Duchamp, Klimt and Dali. **D**

ART 4383 ART HISTORY SINCE 1945

This survey, completing the series begun with ART 3613, 3653 and 4353, traces the development of art from the rise of the New York School to the present day. Among the topics discussed are Abstract Expressionism, Pop and Op Art, and the art of Jackson Pollock, Mark Rothko, Andy Warhol and Keith Haring. **D**

ART 4393 NON-WESTERN ART HISTORY

Supplementing rather than replacing the traditional art survey, this course examines the history of art and visual culture of non-Western civilizations, with emphasis on Asia, Africa, Oceania and native America. Topics include the art of Japan, China and Nigeria, as well as the visual legacy of the Aztec, Mayan and Incan civilization. **D**

ART 4413 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. **S**

ART 4452 CONTENT, METHODS AND MATERIALS IN ELEMENTARY SCHOOL ART

Current methods of applying Discipline-Based Art Education will be used to explore ways to integrate the visual arts into the elementary grades. **Prerequisite:** Admission to Teacher Education Program. **F, S**

ART 4553 TEACHERS' COURSE IN ART

This course explores methods of teaching visual art at the secondary level. In-depth attention will be given to the application of Discipline-Based Art Education assignments at this level. **Prerequisites:** Art major or endorsement and admission to the Teacher Education Program. **D**

ART 4651 SENIOR EXHIBIT

Students will prepare and present a body of work produced as an undergraduate. Emphasis will be on professionalism in presentation as well as the quality of artwork selected. **F, S**

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, and CHEM 1252 or permission of instructor. Recommended: BIOL 2204 and BIOL 2404. FE**

BIOL 3403 PLANT MORPHOLOGY

A study of the structure of both living and fossil vascular plants. **Prerequisites: BIOL 1054 and BIOL 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, BIOL 2404; and CHEM 1203, 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, SU**

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

In this course, the students will explore the synthesizing of vertebrate and invertebrate organisms. In addition, the cellular and molecular aspects of animal development will be covered. The course will also expose the students to the medical implications of developmental biology. **Enrollment by signature of instructor only. Recommended: BIOL 1054, 2204 & 3254. SE**

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

BIOLOGY CREDIT FOR SUMMER ACTIVITIES

Students who attend summer courses at the Gulf Coast Marine Research Laboratory (with which SWOSU is affiliated), the University of Oklahoma Biological Station, or other institutions of higher education, may be able to use those courses toward their biology degree. Likewise, students may earn college credit for some summer research positions and internships. Students who are considering such courses should meet with the Department Chair, prior to enrolling, to determine if these courses may be used toward their degree.

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, SU

CHEM 1252 GENERAL CHEMISTRY I (LAB)

Laboratory for General Chemistry I. Experimental investigation of those topics introduced in 1203 and introduction to visible spectroscopy. **Corequisite:** CHEM 1203. F, S, SU

CHEM 1303 GENERAL CHEMISTRY II (LECTURE)

A continuation of chemical principles for students intending to major in science areas. Topics include kinetics, equilibria, acids and bases, second law, electrochemistry, and nuclear chemistry. **Prerequisites:** CHEM 1203 and completion of or concurrent enrollment in CHEM 1252. F, S, SU

CHEM 1352 GENERAL CHEMISTRY II (LAB)

Laboratory for General Chemistry II. Experimental investigation of those topics introduced in CHEM 1303. **Prerequisites:** CHEM 1203 and CHEM 1252. **Corequisite:** CHEM 1303. F, S, SU

CHEM 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. SO

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. Major topics include: 1) Structure and bonding theories; 2) Transition metal coordination chemistry; and 3) Organometallic chemistry. The lab meets three hours each week and focuses on the synthesis (including inert atmosphere and vacuum line techniques), purification (including chromatography and crystallization techniques), and characterization (including magnetic susceptibility, conductivity, UV-Vis, IR, NMR, X-ray diffraction, and mass spectra) of inorganic ligands and complexes. **Prerequisite:** CHEM 4113 or CHEM 4115. **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 1513 or MATH 1613 or MATH 2823. F, S, SU

PHY 1072 INTRODUCTORY ELECTRONICS

Lecture and laboratory study of simple DC, AC, and nonlinear circuits; emphasis on basic electronic components and instrumentation including meters, oscilloscopes, and function generators. D

PHY 2011 SEMINAR IN PHYSICS

Group study on specified topic in Physics for undergraduate students. Credit one to four semester hours.

PHY 2021 INTRODUCTION TO ENGINEERING PHYSICS

A survey of the fields of engineering, engineering ethics, essential skills including communication and spreadsheets, and the basic physics that forms the core of engineering including kinetics, dynamics, statics, heat, materials, and energy. F

PHY 2145 GENERAL PHYSICS I

Study of mechanics, thermodynamics and wave motion including: Statics, dynamics, fluids, elasticity, heat, first and second laws of thermodynamics, harmonic motion and sound; includes one laboratory per week. The laboratory component will provide "hands-on" experience of physical principles addressed during the lecture part of this course. Students will become familiar with laboratory equipment, procedures, and the scientific method. For engineering, physics, chemistry and mathematics students. **Corequisite:** MATH 1834. S

PHY 2155 GENERAL PHYSICS II

Study of electrostatics, electric circuits, magnetism, electromagnetic fields and optics; includes one laboratory per week. The laboratory component of the course consists of measurements, observation and comparison of measured values to the accepted theoretical or measured values. **Prerequisites:** PHY 2145 and concurrent enrollment in MATH 2834. F

PHY 2203 RIGID BODY MECHANICS

Study of statics, force systems, equilibrium, structures, distributed forces, friction, kinematics. **Prerequisites:** PHY 2145 and concurrent enrollment in MATH 2834. F

PHY 2213 STRENGTH OF MATERIALS

Study of mechanical properties of stressed materials; elastic and plastic deformations of beams, columns, and shafts; axial, transverse and torsion loadings; and temperature effects on materials. **Prerequisites:** PHY 2145, 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. D

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. **Corequisite:** 3424L. **Prerequisites:** PHY 2155 and MATH 3834. SO

PHY 3501 PHYSICS SEMINAR (TOPIC)

Course for students to gain experience in reporting a scientific and technical topic to peers; an oral and a written report on a subject of current interest in physics is required. **Prerequisite:** 18 hours of physics or consent of instructor. SO

PHY 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 1054 or PHY 2155. D

PHY 3563 THERMODYNAMICS

Study of thermal physics including the zeroth, first and second laws of thermodynamics; enthalpy, entropy, kinetic theory, Maxwell-Boltzmann distribution, specific heats, simple transport phenomena, and power cycle applications. **Prerequisites:** PHY 2155 and MATH 3834. **SO**

PHY 3573 HEAT TRANSFER

Study of conduction, convection and radiation heat transfer; properties of materials related to heat transfer; control volume analysis; laminar and turbulent fluid flow; Newton's law of cooling; boiling and cooling; and blackbody radiation. **Prerequisites:** PHY 2155 and MATH 3834. **D**

PHY 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. **FE**

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**

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
COMMUNICATION AND THEATRE**

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 contemporary. **F, S**

COMM 1313 INTRODUCTION TO PUBLIC SPEAKING

This course provides students with an in-depth analysis of public speaking. It includes a thorough examination of the theoretical framework of public speaking and requires students to put those theories into practice. Students will build critical thinking skills by constructing their own messages and evaluating those of others. This course is designed to heighten students' skills as well as increase their confidence as public speakers. **F, S, SU**

COMM 2063 VOICE AND DICTION

Study of vocal elements and phonetics; emphasis on function of speech and on vocal musculature. **D**

COMM 2103 INTRODUCTION TO MASS COMMUNICATION

Basic study of the nature and function of mass communication systems, their audiences, social impact, pressures, and regulations. **F, S**

COMM 2113 WRITING FOR MASS MEDIA

Introduction to writing for both print and broadcast media. Includes news, feature, editorial, and sports writing. **F**

COMM 2123 INTERPERSONAL COMMUNICATION

The study of symbolic and nonverbal communication in dyadic settings. **F, S**

COMM 2213 NEWS GATHERING AND REPORTING

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. **F**

COMM 2763 STAGECRAFT

The construction, painting, rigging, and handling of stage scenery and properties. **FO**

COMM 3013 THEATRICAL MAKE-UP

Study and implementation of the principles, skills, techniques, materials, and methods relevant to the selection, design, and application of stage make-up for varying dramatic genres and purposes. **SO**

COMM 3023 LIGHTING DESIGN

The course covers the principles of designing, mounting and operating stage lighting applied to actual campus productions. Students in this course will light the student-directed plays developed in COMM 3263 Play Directing and Production. **SO**

COMM 3073 PERSUASION

Exposure to several theories of persuasive communication. Practical assignments used to test theories and develop persuasive skills. **FO**

COMM 3113 NEWS EDITING

Problems of the editorial desk, including editing and 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. **D**

COMM 3313 FEATURE WRITING

Writing the feature story for both newspapers and magazines. **Prerequisites:** Six hours of English. **F**

COMM 3333 PHOTOJOURNALISM

This course covers basic and intermediate photography as applied to journalism. Students use digital and 35mm cameras to produce color and black-and-white images. Additionally, they use computer programs to manipulate digital images and insert them into text-based or web-based publications. **SU**

COMM 3413 DESKTOP PUBLISHING

Electronic publishing using personal computers and software for word processing, page building, image manipulation, scanning, and editing. Includes personal web page building and web site management as a form of desktop publishing relevant to Mass Communication. **F**

COMM 3543 SMALL GROUP COMMUNICATION

Study of ways in which group discussion functions and means of becoming effective discussion leaders and participants. **FE**

COMM 3553 ORAL INTERPRETATION

A study of the theory, principles, and techniques of the interpretation of literature for oral performance. **SO**

COMM 3563 ARGUMENTATION AND DEBATE

Study and application of logic and argumentation; practical application through debate and discussion. **FE**

COMM 3573 INTERCULTURAL COMMUNICATION

Students examine the ways that communication varies in different cultures. Kinds of differences studied include nationalities, languages, ethnicities, gender, age, and others. **SE**

COMM 3613 SPECIALIZED PUBLICATIONS

Principles, methods, and problems of specialized publications, including magazines, newsletters, anthologies, yearbooks, programs and special public relations publications. **F, S**

COMM 3663 SCRIPT ANALYSIS

Focus is on the foundational approaches to script analysis and form/style/mood distinctions through reading and analysis of representative plays from distinct perspectives of playwright, actor, designer, and director; analysis is conducted through an in-depth study of assigned plays. Particular emphasis is placed upon analyzing a play's meaning through plot and character construction, story, persuasive imagery, and language. Projects on assigned plays are further developed through readings in criticism and history and through live and/or videotaped theatrical productions. **Prerequisites:** COMM 1263 and COMM 2763.

COMM 3761 THEATRE PRODUCTION

Workshop experience in the practical application of theatre skills. Credit can be earned in stagecraft, lighting/sound, costume/makeup, and management/publicity. **F, S**

COMM 3763 STAGE MANAGEMENT

Stage management is a class designed to introduce the student to the process of a theatrical production from inception to completion with an emphasis on the managerial aspects of the production. Specifically, the student will have basic understanding of stage management for the theatre. **Prerequisites:** COMM 1263 and COMM 2763

COMM 3963 COSTUME HISTORY

A study of the design and development of costume from ancient times up to the present. **D**

COMM 4001-4 INDIVIDUAL STUDY IN COMMUNICATIONS

Specific topic in Communications. One to four credit hours. **D**

COMM 4011-4 SEMINAR IN COMMUNICATIONS (TOPIC)

Group study of specified topic. One to four credit hours. **D**

COMM 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. **S**

COMM 4343 COMMUNICATION THEORY

Introduction to theories and methods used to study human communication phenomena across several contexts. **SO**

COMM 4363 ORGANIZATIONAL COMMUNICATION

A course integrating theory and practice focusing on how people in professions are able to succeed in their jobs and careers through effective communication practices. **FO**

COMM 4403 SCENE DESIGN

Study of the theory of designing stage settings, including both aesthetic and practical considerations. Practice in creating sketches, floor plans, construction drawings, and set models. **Prerequisite: COMM 2763. SE**

COMM 4463 THEATRE HISTORY: GREEK TO 1660

Survey of growth and development of the theatre from its beginnings to 1660 with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **FO**

COMM 4483 PLAY DIRECTING AND PRODUCTION

This course covers the techniques of directing and producing plays: script analysis, play selection, casting, and approaches to rehearsal. Students will direct one-act plays for public performance. **Prerequisites: COMM 2363, COMM 2763 and COMM 3663. SO**

COMM 4563 TEACHING SPEECH IN THE SECONDARY SCHOOL

Problems and methods of teaching speech and directing speech activities in the secondary school. **Prerequisite: Admission to the Teacher Education Program. D**

COMM 4663 THEATRE HISTORY: 1660 TO PRESENT

Survey of growth and development of the theatre from 1660 to the present with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **SE**

COMM 4963 ACTING II

Intensive study of acting techniques with special emphasis on character development, vocal patterns, and physical movement. **SE**

**DEPARTMENT OF
LANGUAGE AND LITERATURE**

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, SU**

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. Documented 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. S**

ENGL 3113 CONTEMPORARY FICTION

This course is a study of short American fiction, beginning with the 1950's and progressing to the present. Students will read selected short stories, with particular focus on characterization, structure, theme, and language. **Prerequisite: ENGL 1213. SE**

ENGL 3123 CONTEMPORARY POETRY

This course is designed to lead students to a comfortable acquaintance with American poetry from the 1950's to poetry currently appearing in magazines. Formal poetry, free verse, and prose poetry will be studied. **Prerequisite: ENGL 1213. SO**

ENGL 3473 BEGINNING CREATIVE WRITING OF FICTION

This workshop is a training-ground for short story writers. The student's work will be discussed critically. Exercises will be assigned. Full participation, both as writer and critic, is expected. **Prerequisite: ENGL 1213. S**

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. F**

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 students 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 concentrate on development of their own styles and increase the precision of their written communication skills. Further study and appreciation of the argumentative/persuasive essay's structure is implemented by reading and writing. Topics may vary.

Prerequisite: ENGL 1213. **F**

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. **SE**

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. **FO**

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 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 advanced software tools, as well as traditional copyediting methodology. This course stresses collaborative teamwork.

Prerequisite: ENGL 1213. **F**

ENGL 4653 WRITING FOR MULTIMEDIA

Multimedia 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. Student is expected to critique (in writing) the work of other students.

Prerequisite: ENGL 1213. **S**

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. **F**

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**

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.

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, S, SU**

SPAN 1154 ELEMENTARY SPANISH II

This course is a continuation of SPAN 1054 and completes the basic grammar of Spanish; consideration of Hispanic cultural background.

Prerequisite: SPAN 1054 or equivalent high school Spanish. **F, S, SU**

SPAN 2053 INTERMEDIATE SPANISH I

Review of Spanish grammar to allow a more thorough understanding of fundamentals of Spanish with reading, cultural background, conversation, and composition. **Prerequisite:** SPAN 1054, SPAN 1154, or permission. **F**

SPAN 2153 INTERMEDIATE SPANISH II

Discussions in Spanish based on poetry, short prose selections, literary and current events. Informal grammar presentations as required. **Prerequisite:** SPAN 2053 or equivalent. **S**

SPAN 3013 SPANISH FOR LAW ENFORCEMENT

Course designed to develop language skills with a focus on listening and speaking to provide vocabulary and conversational practice in realistic law-enforcement and/or emergency situations with emphasis on real-life vocabulary, Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text. **S**

SPAN 3023 SPANISH FOR HEALTHCARE PROFESSIONALS

Course designed to develop language skills with a focus on listening and speaking to provide vocabulary and conversational practice in realistic healthcare, pharmacy and/or emergency situations with emphasis on real-life vocabulary. Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text. **F,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. **Prerequisite: SPAN 2053. F,S**

SPAN 3653 INTERMEDIATE SPANISH CONVERSATION

Course designed to increase vocabulary and conversational ability in realistic situations; planned and spontaneous activities using newspapers and magazines to augment course text; no English spoken; may take concurrently with SPAN 2153. **Prerequisite: SPAN 2053. F,S**

SPAN 3753 READINGS IN SPANISH

Course designed to increase reading and overall proficiency in Spanish through study of selected literary genres from Spanish America and Spain. Various interactive methods used. **Prerequisites: SPAN 2053 or equivalent. S**

SPAN 3853 INTERMEDIATE SPANISH COMPOSITION AND GRAMMAR

Intensive writing course to increase Spanish writing proficiency. Review of grammatical forms that typically cause problems for intermediate learners. Interactive approach through a variety of methods. **Prerequisite: SPAN 2053 or equivalent. S**

SPAN 4012-3 SEMINAR IN SPANISH

Group study of specified topic for undergraduate students. **Prerequisite: SPAN 2053 or equivalent. D**

SPAN 4043 ADVANCED SPANISH CONVERSATION

Course designed to continue the development of language skills with a focus on listening and speaking to increase vocabulary and conversational ability in realistic situations for the new millennium with emphasis on Spanish-language media and public-service opportunities; planned and spontaneous activities augment course text; no English spoken. **Prerequisite: SPAN 3653. FO**

SPAN 4053 ADVANCED SPANISH COMPOSITION AND GRAMMAR

Intensive writing course to increase Spanish writing proficiency. Review of grammatical forms that typically cause problems for advanced student. Interactive methods used. **Prerequisite: SPAN 3853. FO**

SPAN 4373 HISPANIC LITERATURE

Study of Peninsular Spanish and Latin American literature from its beginnings to the present with readings or representative texts. Readings and assignments are mostly in Spanish. **Prerequisite: SPAN 3653 and SPAN 3753. F**

SPAN 4473 – HISPANIC AMERICAN WRITERS

Students survey Hispanic American writers, life and culture from their origins to modern times. Readings and assignments are mostly in Spanish with representative texts from original works. Students engage in advanced topics of cultural significance. **Prerequisite: SPAN 3653 and SPAN 3753. SE**

SPAN 4553 STUDIES IN SPANISH ABROAD/INTERNSHIP

Immersion experience in Spanish-speaking culture with home-stay family whenever possible. Varying lengths of stay and location. Cross-cultural experiences require maturity, flexibility, and open-mindedness. Travel expenses, paid by student, may vary. Alternative is internship with native speakers dealing with selected projects. Approval required. **D**

SPAN 4570 SENIOR SPANISH CAPSTONE

Students review and refine listening, speaking, reading, and writing skills in the Spanish language while surveying Hispanic contributions of literary, artistic and international significance. Emphasis on preparedness to enter the work place. **F, S, SU**

SPAN 4923 TEACHERS COURSE IN WORLD LANGUAGES

Course designed to give the basic principles and techniques for effective instruction in world languages. **Prerequisite: SPAN 1054. or equivalent. D**

Literature**LIT 2001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)**

Individual study of specified topic for undergraduate students. Credit one to four semester hours. **D**

LIT 2011-4 SEMINAR IN LITERATURE (TOPIC)

Group study of specified topic for undergraduate students. Credit one to four semester hours. **D**

LIT 2333 INTRODUCTION TO FILM

A study of films as entertainment, cultural force, and art form. This course consists of viewing, analyzing, and discussing numerous full-length commercial films. **D**

LIT 2413 INTRODUCTION TO LITERATURE

The study of short stories, poetry, and drama. **F, S, SU**

LIT 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. **D**

LIT 3023 LITERATURE: THEORY AND PRACTICE

This course is an entry point for the major in English Education: it must be completed before continuing with further study in the major. The course examines the purposes, origin, and methods of the discipline. Students will study literary examples from the five genres (fiction, poetry, drama, essay, and film) using a variety of critical and theoretical approaches. Additionally, students will learn to write both interpretive essays and research papers and will begin a writing

portfolio. Lecture, discussion, peer review, practice in oral delivery of literature. **Prerequisite:** ENGL 1213 AND LIT 2413. F

LIT 3033 WORLD MYTHOLOGY

In this course students will study the myths that human beings have used throughout history to explain their world, including the myths of Greece and Rome, the American Indians, the Norse, the Egyptians, the Mesopotamian, and the Eastern world. Students study the common features of these stories and come to understand how these classic stories reflect and affect our own history, psychology, literature, and religion. **Prerequisite:** ENGL 1213 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 SE

LIT 3223 ROMANTIC MOVEMENT

History of the Romantic movement; prose and poetry of the period with particular attention to the works of Wordsworth, Coleridge, Byron, Shelley, and Keats. **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. SO

LIT 3343 WORLD FOLK LITERATURE

Students in this class will gain a greater appreciation and understanding of society's self-definition through folklore phenomena such as orally or imitatively transmitted literature (proverbs, tall tales, urban legends, American Indian myths, cowboy poetry, fairy tales, jokes, folk songs), material culture (prison art, whimsies, quilts) and customs (superstitions). They will explore the characteristics and relationships between literary and folk genres, themes and motifs and study the interplay of folkloric thinking and formal literary expression in texts of all kinds. **Prerequisite:** ENGL 1213 AND LIT 2413. FO

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, Jonson, 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. FO

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 4232 BOOKS AND MATERIALS FOR YOUNG PEOPLE

A study of books, magazines, films, filmstrips, and still pictures for young people in grades 7 through 12. Course provides guidelines for selection and evaluation of books for young people.

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. FE

LIT 4623 17TH CENTURY ENGLISH POETRY

Selected readings from the works of Jonson, Donne, and their followers, providing a background for the study of the poetry of Milton. **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, Spenser, 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. **SE**

LIT 4993 THE NOVEL

In this course students will read and study novels of a particular period or type. Focus will vary from semester to semester and range in period and nationality (for example, 18th Century British Novel, History of the Novel, Victorian Novel, or focus on a particular set of writers). **Prerequisite:** ENGL 1213 and LIT 2413. **S**

Philosophy**PHILO 1453 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 0124 BASIC ALGEBRA

A remedial course in beginning algebra, including arithmetic skills; successful completion removes math deficiency. 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 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, polar coordinates, and vectors. **Prerequisite:** MATH 1834. **F, S**

MATH 3113 FOUNDATIONS IN MATHEMATICS

An introduction to basic concepts upon which mathematics is founded. Logic, set theory, proof-writing techniques, equivalence relations, mappings. **Prerequisite:** MATH 2834 or departmental approval. **F**

MATH 3413 STATISTICAL METHODS

Beginning techniques for students with modest mathematical backgrounds. Emphasis on applications to the biological and physical sciences, business, and education. **Prerequisite:** MATH 1513. **F, S,UE**

MATH 3433 STATISTICS I

An introductory probability and statistics course. The binomial, hypergeometric, poisson, normal, t-, and Chi-square distributions are studied. Other topics include hypothesis testing, linear regression, and analysis of variance. Some work with the statistical software package SPSS. 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. **SO**

MATH 3533 TECHNOLOGY AND PROGRAMMING IN MATHEMATICS

This course will be an introduction to computers and calculators for students of mathematics. Topics will be selected from: uses of the internet for the study of mathematics, graphing calculators, computer software, and programming for solving mathematical problems. **Prerequisite:** MATH 1834. **F**

MATH 3553 NUMERICAL ANALYSIS

Derivation, evaluation, and application of numerical methods of applied mathematics. Computer programming solutions to roots of equations, difference and differential equations, numerical integration, and linear algebra problems. **Prerequisite:** MATH 2834 and any scientific programming language. **D**

MATH 3653 LINEAR ALGEBRA

An introductory course in vector spaces, matrices, determinants, characteristic roots, and applications. **Prerequisite:** MATH 2834 or departmental approval. **S, 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**

MATH 3834 CALCULUS III

Continuation of Calculus II. Vector-valued functions, partial differentiation, multiple integration, line integrals, surface integrals. Green's Theorem, the Divergence Theorem, and Stokes' Theorem. **Prerequisite:** MATH 2834 or equivalent. **F, S**

MATH 4001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)

Independent study of specific topic in mathematics for undergraduate students. Credit one to four semester hours. **D**

MATH 4011-4 SEMINAR IN MATHEMATICS (TOPIC)

Group study of specified topic in mathematics for undergraduate students. Credit one to four semester hours. **D**

MATH 4013 SEMINAR IN MATHEMATICS

The following courses are generally offered under this course number:

Analytic Geometry

Emphasizes the essential elements of analytic geometry with special attention to those topics that are needed in a college level calculus sequence. Content includes polynomial, rational, and transcendental functions. Polar and parametric equations, space coordinates and surfaces, lines and planes in space, applications to business, social and physical sciences, and curve fitting. **Prerequisite:** MATH 2834. **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 sets, mappings, binary operations, mathematical induction, divisibility and congruence mod n . Basic algebraic structures: groups, subgroups, cyclic groups, normal subgroups, homomorphism, and isomorphism. Introduction to rings, integral domains, and fields. Supportive problem sets and applications of special interest to teachers. **Prerequisite:** MATH 3834. **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. **Perquisite:** MATH 3834. **D**

MATH 4153 HISTORY OF MATHEMATICS

A survey course on the historical development of mathematics, including a look at famous problems and their development over time. **FE**

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 of vector analysis with an introduction to vector spaces. **Prerequisite:** MATH 3834. **D**

MATH 4653 MODERN ALGEBRA

An introduction to group, ring, and field theory. Emphasis on real and complex number fields. Supportive problem sets and applications. **Prerequisite:** MATH 3834 or departmental approval. **F, 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. **D**

MATH 4853 ADVANCED CALCULUS

A course in real analysis designed to strengthen and extend the theory behind the calculus sequence. **Prerequisite:** MATH 3834. **S**

MATH 4873 COMPLEX VARIABLES

Complex numbers and their algebra. Analytic functions. Cauchy-Riemann conditions, differential calculus of analytic functions. **Prerequisite:** MATH 3834. **FO**

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**

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**

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**

DEPARTMENT OF MUSIC

MUSIC 1013 INTRODUCTION TO MUSIC I

Introduction to the history of music and musical styles. **F, S, SU**

MUSIC 1032 INTRODUCTION TO WORLD MUSIC

A study of the music of various non-western cultures throughout the world. **F, S**

MUSIC 1112 FUNDAMENTALS OF MUSIC

Basic course in music notation for students who cannot read music symbols. Open to all students and majors. **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 & MEDICAL SETTINGS

An orientation to the biomedical theories of music therapy and principles of therapeutics designs in various medical and rehabilitation settings. **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

Experiential learning of the skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in medical and physical rehabilitation settings. 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

Experiential learning of skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in mental health. Two classes and a one-hour seminar each week. **D**

MUSIC 2222 RECREATIONAL MUSIC

The use of various music experiences in the therapeutic and educational process, including experiences in piano, guitar, body movement, educational rhythmic, and directing group activities. **D**

MUSIC 2681 VOCAL ENSEMBLE

Experience in performing in small vocal ensembles. **D**

MUSIC 2811 CLASS PIANO I

Class instruction in piano for students with no previous keyboard experience. Emphasis on practical keyboard facility, sight reading, and harmonizing folk melodies and songs. **F, S**

MUSIC 2821 CLASS PIANO II

Class instruction in piano for students with beginning private piano instruction or those who have completed MUSIC 2811. **F, S**

MUSIC 2831 CLASS PIANO III

Class instruction in piano for moderately advanced beginners or those who have completed MUSIC 2821. **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

Experiential learning of skills in observation, assessment, treatment design, documentation, and presentation with the focus on music therapy in special education. 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 3171 INTRODUCTION TO MOVEMENT

Develop knowledge and skills of movement via leading structural and creative/improvisatory experiences, communicating via movement, and both music and non-music goals for movement activities.

MUSIC 3181 MUSIC THERAPY COMPETENCIES AND PROFESSIONAL ETHICS

Discussion of music therapy professional competencies, standards of clinical practices (including topics of insurance reimbursement and job/internship searching), and ethics dilemmas that should be resolved in compliance with Code of Ethics by AMTA and CBMT.

MUSIC 3202 MUSIC METHODS FOR ELEMENTARY TEACHERS

Training in music for the non-musician teacher who will teach in a self-contained elementary classroom or who will support the work of a general music specialist. Activities include singing, listening, rhythmic and creative activities, and experience in playing instruments used in the K-6 classroom. **F, S, SU**

MUSIC 3231 BAND INSTRUMENT REPAIR

Practical course in instrument repair. **D**

MUSIC 3253 MUSIC THEORY III

The study of chromatic theory. Emphasis is given to altered chords, chords of the augmented sixth, enharmonic spellings, and various non-harmonic tones. **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 One full orchestra and two string rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4061 SMALL INSTRUMENTAL ENSEMBLES

Performance of chamber music for small instrumental ensembles. Two rehearsals each week. Enrollment by permission of the instructor. **D**

MUSIC 4071 JAZZ ENSEMBLE

Performance of the literature of jazz. Two or three rehearsals a week, depending on ensemble assignment. Enrollment by audition and permission of instructor. **F, S, SU**

MUSIC 4081 BAND

The performance of band literature in an ensemble situation. **F, S, SU**

MUSIC 4102 FORMS AND ANALYSIS

A course which provides the basic tools for the analysis of music from any period style. Emphasis of study is upon forms developed by common practice in western music from 1700 to the present. **Prerequisite: MUSIC 1314. 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

Survey of Research in Music in APA style, emphasizing both quantitative as well as qualitative techniques, and elementary statistics. **D**

MUSIC 4202 COMPOSITION

Practical experience in musical composition in various forms and styles. **Prerequisite:** MUSIC 3303. **D**

MUSIC 4213 MUSIC THERAPY III: MUSIC THERAPY IN SPECIAL EDUCATION

Survey of common physiological and psychological characteristics of special education recipients, music therapy assessment and treatment that correspond with the Individual Education Plans (IEPs) or other care plans, as well as curcial legal considerations in the special education setting. **D**

MUSIC 4222 INSTRUMENTAL PEDAGOGY

Physical and psychological problems associated with teaching wind, percussion, and stringed instruments. **FO**

MUSIC 4232 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 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 20th 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**American Indian Studies****AMIS 1001 INTRODUCTION TO AMERICAN INDIAN STUDIES**

A survey course intended to orient student to American Indian culture and history. **S**

AMIS 2001-03 INDEPENDENT STUDY IN AMERICAN INDIAN STUDIES

Independent study of selected topic in American Indian studies. **D**

AMIS 2004 (TRIBE) LANGUAGE I

Introduces students to a particular American Indian language, its orthography, syntax, grammar, and pronunciation. Develops written and oral skills. **F**

AMIS 2103 AMERICAN INDIANS TODAY

A study of contemporary American Indian life and culture. **D**

AMIS 2113 LITERATURE OF AMERICAN INDIANS FOR A NEW GENERATION

A study of the works of fiction, non-fiction, drama, and poetry composed primarily from 1900 to the present by Native American authors and studied with emphasis on the conflict between different cultures and traditions with contemporary application. Emphasis is placed on writers from Oklahoma and the Southwest. **D**

AMIS 2123 TRIBAL GOVERNMENT & SOVEREIGNTY

Study of American Indian Tribal Government with special emphasis on its legal foundation. **D**

AMIS 2403 SPECIAL TOPICS ON AMERICAN INDIANS I

Special topics of current interest to American Indians to be examined. **D**

AMIS 2413 TRIBAL ECONOMICS

Special topics of current interest to American Indians to be examined. **D**

AMIS 2603 TRIBAL HISTORY (TOPIC)

In depth study of a selected American Indian tribe. **D**

AMIS 3004 (TRIBE) LANGUAGE II

Continues the study of a particular American Indian language, further examining its syntax, grammar, and pronunciation and developing written and oral skills. **S**

AMIS 3403 SPECIAL TOPICS ON AMERICAN INDIANS II

Special topics of current interest to American Indians to be examined. **D**

AMIS 4011-13 SEMINAR IN AMERICAN INDIAN STUDIES

Intensive study of selected topic in American Indian studies. **D**

AMIS 4333 RELIGION OF THE AMERICAN INDIAN

An examination of the world view, religious beliefs, and practices of American Indians. **D**

Criminal Justice

CRMJS 1113 INTRO TO CRIMINAL JUSTICE

An overview of the agencies and processes involved in the administration of justice to those accused and convicted of violating the criminal law. Agency problems and due process issues related to law enforcement, prosecution, adjudication, sentencing and confinement of offenders are discussed. **F**

CRMJS 1223 INTRODUCTION TO LAW ENFORCEMENT

A description and analysis of law enforcement history and current practice. The complex role of American police agents at all levels of government, models of police service, critical issues affecting law enforcement and practice, and the progress toward professionalism are emphasized. **D**

CRMJS 2503 CRIMINAL JUSTICE ADMINISTRATION

A study of the organization and management of Criminal Justice agencies. **D**

CRMJS 3163 SOCIOLOGY OF DEVIANT AND CRIMINAL BEHAVIOR

A general study of causes, effects and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. **Prerequisite:** CRMJS 1113. **F**

CRMJS 3243 COMPARATIVE CRIMINAL JUSTICE SYSTEMS

A trans-national study of criminal justice systems focusing on law enforcement, adjudication, and corrections for comparison with U.S. system. **Prerequisite:** CRMJS 1113. **S**

CRMJS 3353 THE CRIMINAL MIND

This course will explore the mind of those who commit criminal acts and attempt to understand their motives, backgrounds, and psyches. Additional topics discussed in the course will include the mind of the murderer, the stalker, the terrorist, the sex offender, the rapist, and the cyber stalker. **Prerequisite:** CRMJS1113. **D**

CRMJS 3803 PRIVATIZATION OF CRIMINAL JUSTICE

A study of the historical and contemporary involvement of citizens and business and industry (i.e., non-government) in law enforcement, investigation, security, surveillance, detention, corrections, and treatment. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4012 SEMINAR IN CRIMINAL JUSTICE

Intensive study on selected topic in criminal justice. May be repeated with change of subject. **Prerequisite:** CRMJS 1113.

CRMJS 4013 SEMINAR IN CRIMINAL JUSTICE

Intensive study on selected topic in Criminal Justice. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4103 JUVENILE JUSTICE

The study of delinquency and agencies of delinquency control; juvenile courts, probation, institutions and community organizations. **Prerequisite:** CRMJS 1113. **S**

CRMJS 4143 CRITICAL ISSUES IN CRIMINAL JUSTICE

Analysis of selected critical issues facing the criminal justice system. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4153 U.S. CORRECTIONS

A study of corrective social responses to adult criminal behavior; focuses largely on the process of institutionalization, along with alternative treatment strategies. **Prerequisite:** CRMJS 1113. **F**

CRMJS 4333 VICTIMOLOGY

A sociological analysis of victimization, the social response to victimization, and the victim movement. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4903 DIRECTED READINGS IN CRIMINAL JUSTICE

Scope of project determined by instructor. May be repeated for a total of six hours. **Prerequisite:** CRMJS 1113. **Permission required.**

CRMJS 4913 INTERNSHIP IN CRIMINAL JUSTICE

Qualified students will be assigned to cooperating criminal justice agencies during appropriate academic periods to observe and to apply previous course work. **Prerequisite:** CRMJS 1113. **Permission required.** **F, S, SU**

CRMJS 5903 DIRECTED READINGS IN CRIMINAL JUSTICE

Scope of project determined by instructor. May be repeated for a total of 6 hours. **Permission required.** **D**

Economics

ECONO 2263 INTRODUCTION TO MACROECONOMICS

Study of the economy as a whole. Topics include national income accounting, the determination of the levels of income, output, employment, and price; money and banking; stabilization policies; international economics. **F, S**

ECONO 2363 INTRODUCTION TO MICROECONOMICS

Fundamental microeconomic principles involving behavior of consumers, business firms, and resource owners as they relate to the allocation of resources; individual price and output determination. **F, S**

ECONO 2463 BUSINESS STATISTICS

Study of the relationship of data collection, analysis, and decision-making; emphasis on data collection, tabular and graphical methods, numerical methods, probability, discrete and continuous probability distributions, sampling methods and distributions, interval estimation, hypothesis testing, statistical inference, and linear regression and analysis. **F, S, SU**

ECONO 3863 MONEY AND BANKING

The study of the role of money, financial markets, and monetary policy in the overall economy; monetary theory. **Prerequisites:** ECONO 2263. **D**

ECONO 4003 INDEPENDENT STUDY IN ECONOMICS (TOPIC)

Individual study of selected topics under the supervision of an economics faculty member. **Permission required.** **D**

ECONO 4013 SEMINAR IN ECONOMICS (TOPIC)

Group study of specified topics in economics. **Permission required.** **D**

ECONO 4563 MANAGERIAL ECONOMICS

An application of economic analysis and theory to the decision-making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure; pricing. **Prerequisite:** ECONO 2363. **D**

ECONO 4963 INTERNATIONAL ECONOMICS

Fundamentals of trade theory and international finance. Survey of important current economic problems of an international nature. **Prerequisites:** ECONO 2263. **D**

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 and pricing. **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. **F**

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. **D**

GEOG 4083 ENVIRONMENTAL STUDIES

This course examines impact of humans on the environment. Specifically it attempts to compare the relative stress humans impose upon the environment within various socio-economic structures. **D**

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. **D**

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. **D**

History**HIST 1033 WORLD HISTORY**

An introduction to the history of world civilizations with an emphasis on the development of ideas, institutions, and religions as well as an examination of the impact particular individuals and movements have had in history. **F, S, SU**

HIST 1063 UNITED STATES HISTORY

A survey of American history from colonial times to the present. **F, S, SU**

HIST 2603 WRITING HISTORY

The method and practice of writing history. **F**

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 HISTORY OF IRELAND

A history of Ireland with an emphasis on the period since the 17th century. **D**

HIST 3083 NATIONALISM AND ETHNICITY

An examination of the theories of national and ethnic community, and the violent application of such theories in 19th and 20th century Europe. **D**

HIST 3103 MEDIEVAL ENGLAND

Intensive examination of English history from the Anglo-Saxon era through the reign of King John with an emphasis on the detailed study of chronicles, laws, and other primary sources. **F**

HIST 3113 TUDOR ENGLAND

A study of selected topics from the history of 16th century England.

HIST 3173 HISTORY OF IDEAS

The course uses a seminar method to examine some of the influential texts and ideas of the modern age. Beginning with great humanist texts and working through writings of Marx, Freud, and others, students will use a Socratic method to examine primary sources. **D**

HIST 3193 THE EUROPEAN UNION

This course adopts a lively, interactive approach to study of the European Union, its institutions, member states, historical and legal background, and current issues. Students participate in debates, presentations, and a "Model EU". **D**

HIST 3203 HISTORY OF GERMANY: 9 A.D. - 1989

The History of the German people and states from ancient tribal society, through the Holy Roman Empire, the Reformation of Martin Luther, to modern nationalism, Hitler's Reich, and the divided Germany of the Cold War. **F**

HIST 3303 HISTORY OF IMPERIAL RUSSIA

Social, political, economic, and cultural developments from Muscovy to Bolshevik Revolution of 1917; emphasizing principal Muscovite regimes, Russian expansion, revolutionary movements, and World War I. **D**

HIST 3403 MODERN FRANCE

Surveys developments of modern France from the collapse of the 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. **D**

HIST 3503 EARLY CHRISTIAN THOUGHT

A historical introduction to early Christian writings and the development of Christian doctrine during Christianity's first centuries. **Permission required. D**

HIST 3603 20TH CENTURY WORLD HISTORY

A history of the 20th century and the early years of the new millennium. The emphasis will be on traditionally non-western nations and regions such as China, Japan, India, Russia, and Africa. The role of the United States and Europe in this period will also be examined. **D**

HIST 4011-4 SEMINAR IN HISTORY

Intensive study on selected topic in history. Credit from one to four hours. May be repeated with change of subject for total of 12 hours. **D**

HIST 4023 COLONIAL AMERICA, 1492-1765

A study of the European Colonies north of Mexico from earliest European exploration to the victory of the British in the Wars for North American Empire. **D**

HIST 4033 REVOLUTIONARY AMERICA: 1765-1808

Study of the revolutionary process in the British colonies and the Revolutionary War, the creation of the 1st American Republic under the Articles of Confederation and a 2nd under the Constitution, the revolution 1800 and the stabilization of the republic in the presidency of Thomas Jefferson. **D**

HIST 4043 NEW NATION AND AGE OF JACKSON, 1808-1850

America from the Age of Good Feeling through the Age of Jackson including the War of 1812, the second Great Awakening, the rise of social reform movements, the rise and decline of the second party system and developing tensions between nationalism and sectionalism. **D**

HIST 4053 CIVIL WAR AND RECONSTRUCTION: 1850-1877

Causes of Civil War, forming of Southern Confederacy, major events of war, political, economic, and social problems associated with restoration of the union. **S**

HIST 4063 GILDED AGE: 1877-1900

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,S**

HIST 4103 AMERICAN INDIANS

Emphasis is on Native American cultures and societies in the United States and federal Indian policy from 1830 to the present. **F**

HIST 4123 AMERICA IN THE 1960S

The study of the "liberal decade" including the Kennedy's, Johnson, King, and Nixon, Civil Rights, Vietnam, 1968, and the Counter culture. **D**

HIST 4133 WOMEN IN AMERICAN HISTORY

The changing role of women in American society from colonial times to the present. Emphasis on cultural values and attitudes, the suffrage movement, feminism and antifeminism in the 20th century as well as the contemporary economic, legal, political, social, and intellectual issues facing women today. **D**

HIST 4203 OLD SOUTH

Study of antebellum South. Emphasis on role which South and Southerners played in national affairs and development of southern societal characteristics. **S, D**

HIST 4213 NEW SOUTH

Survey of postbellum South with emphasis on economic, political, and social forces which have changed culture of this region. **D**

HIST 4313 AMERICAN WEST

Study of the Trans-Mississippi West with emphasis on the impact of the frontier on American life, environmental issues, and the 20th Century West. **D**

HIST 4353 HISTORY OF OKLAHOMA

Oklahoma history from its beginning to present, including Indian background, formation into territories, achievement of statehood, and general cultural, economic, and political development. **S, SU**

HIST 4803 PUBLIC HISTORY INTERNSHIP

Reading, essays, and an internship in a public history setting. **Permission required. D**

HIST 4901-4 DIRECTED READINGS IN HISTORY (TOPIC)

Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

HIST 5011-4 SEMINAR IN HISTORY (TOPIC)

Intensive study of selected topic in history. Credit one to four hours. **D**

HIST 5093 HISTORIOGRAPHY

An introduction to readings, problems, and methods in the study of historical topics. **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 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 Congress and the Executive Branch. **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 I

Inform students about the United Nations system; consideration of the political, social, economic, and environmental issues, as well as disarmament and other issues within the international community. Participation in the Midwest Model United Nations is required. **Prerequisite: POLSC 1103. SE**

POLSC 3363 PUBLIC ADMINISTRATION THEORY & PRACTICE

Introduction to principles and problems of public administration, organization, planning, supervision, budgeting, and administration responsibility. **Prerequisite: POLSC 1103. D**

POLSC 3373 MODEL UNITED NATIONS II

Along with Model United Nations I explores the United Nations in action, represents different nations at the Midwest Model United Nations and hosts SWOSU Model United Nations. **S. Prerequisite: POLSC 1103. S,D**

POLSC 4013 SEMINAR IN POLITICAL SCIENCE (TOPIC)

Intensive study on selected topic in Political Science. May be repeated with change of subject for a total of 12 hours. **Prerequisite: POLSC 1103. D**

POLSC 4233 URBAN POLITICS & ELECTION SYSTEMS

A study of the governance systems of cities and towns within the governing state context; and the processes of municipal and state policy implementation. **Prerequisite: POLSC 1103. D**

POLSC 4253 INTERNATIONAL LAW

An analysis of international organizations, international courts, issues of sovereignty, diplomatic relations, treaties, human rights, economic policies, and when the use of force is justified. The course will review cases from the United States Supreme Court, the International Court of Justice and other courts throughout the world. **Prerequisite: POLSC1103. 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**

Social Sciences

SOCS 3853 STATISTICS FOR THE SOCIAL SCIENCES

Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. **F, S**

SOCS 3863 FUNDAMENTALS OF RESEARCH

Use of scientific method in social science research. **F**

SOCS 4133 TEACHERS COURSE IN THE SOCIAL SCIENCES

Resources, methods and problems in teaching the social sciences in secondary schools. Required for certification in this field. **F**

Sociology

SOCIO 1003 INTRODUCTION TO SOCIOLOGY

A general education course covering the fundamental concepts of sociology; foundations of group life; social change, processes, and problems. **F, S, SU**

SOCIO 3043 RACIAL AND CULTURAL MINORITIES

An interdisciplinary examination of the causes and consequences of prejudice and discrimination. **Prerequisite: SOCIO 1003. D**

SOCIO 3163 SOCIOLOGY OF DEVIANT & 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. **D**

SOCIO 4323 GERONTOLOGY

An examination of the developmental aspects of aging plus an investigation of programs and services available for the aged. **D**

COLLEGE OF PHARMACY

MEDICINAL CHEMISTRY

PHARM 4515 MEDICINAL CHEMISTRY

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 3333 and 3725; Chemistry 4124.

PHARM 5422 CURRENT CONCEPTS IN MEDICINAL CHEMISTRY

An elective course dealing with new processes and techniques in medicinal chemistry. **Prerequisite:** PHARM 4515 or permission of instructor.

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. **Prerequisite:** Admission to the College of Pharmacy.

PHARM 3032 PRESCRIPTION PRODUCTS

Two hours lecture. A discussion of the major prescription products dispensed in the United States. **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 3333 and 3615.

PHARM 3311 PHARMACEUTICAL CARE LABORATORY I

Introduction to the prescription, dispensing processes, and patient counseling. **Prerequisite or concurrent enrollment:** PHARM 3123.

PHARM 3333 BIOPHARMACEUTICS I

Three hours lecture. An introduction to biopharmaceutics with emphasis on drug absorption, distribution, metabolism and elimination as well as individual differences that influence these and other processes. **Prerequisite:** Admission to the College of Pharmacy.

PHARM 4032 PHARMACEUTICS III

Two hours lecture. A continued study of pharmaceutical dosage forms with emphasis on physical pharmacy and biopharmaceutical principles. **Prerequisites:** PHARM 3123. **Prerequisite or concurrent enrollment:** PHARM 3725 and PHARM 3032.

PHARM 4041 PHARMACEUTICAL CARE LABORATORY II

Advanced dispensing processes and prescription systems, management, and utilization; enhanced patient counseling and computer utilization. **Prerequisite:** PHARM 3311 and typing proficiency of 35 wpm. **Prerequisite or concurrent enrollment:** PHARM 3032.

PHARM 4101-2 PHARMACY PROBLEMS

One-two hours credit. Original investigations in the fields of pharmaceuticals, 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.

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. **Prerequisite or concurrent enrollment:** PHARM 4745.

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 3725 and 4032. **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 4041. **Prerequisite or concurrent enrollment:** PHARM 5142.

PHARM 5172 CURRENT CONCEPTS IN PHARMACEUTICS

An elective course dealing with current topics in pharmaceuticals. **Prerequisite:** PHARM 4012 or consent of instructor.

PHARMACOLOGY & TOXICOLOGY

PHARM 3615 PATHOPHYSIOLOGY I

Five 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 3725 PATHOPHYSIOLOGY II

Five hours lecture. A study of human physiology and pathophysiology with emphasis on the endocrine, cardiovascular, respiratory, renal digestive and reproductive systems. **Prerequisite:** PHARM 3615.

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 BIOPHARMACEUTICS II

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 3333 AND 3725

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 3333 and 3725; 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. .

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 or concurrent enrollment:** 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 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 3725, 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 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 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 5234.

PHARM 5342 CURRENT CONCEPTS IN PHARMACY PRACTICE

An elective course dealing with current topics in pharmacy practice. **Prerequisite:** PHARM 4323 or consent of instructor.

PHARM 5914 and PHARM 5924 PHARMACY PRACTICE-COMMUNITY

Each is a full-time four-week practicum conducted in an independent and/or chain pharmacy. Instruction and supervised pharmacy practice training is provided by an instructor in off-campus affiliated teaching community pharmacies. The advanced student applies the knowledge and skills from previous coursework and training to demonstrate pharmaceutical care in ambulatory patients. **Prerequisites:** Fourth professional year standing.

PHARM 5934 PHARMACY PRACTICE-INSTITUTIONAL

This is a full-time four-week practicum. . 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

Each is a full-time four-week practicum conducted in a pharmacy practice site. Instruction and supervised pharmacy practice training is provided 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

Each is a full-time four-week practicum with 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 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 3032 and 4823.

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 4203 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 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 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 3812 and 4823.**

PHARM 5844 JURISPRUDENCE AND ETHICS

Four 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 4823 or permission of the instructor.**

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 and display techniques as well as utilization of formulas used by health care facilities. Two hours of lecture per week with 2 hours of lab for application techniques. **Corequisite: ALHLT 3043L. F,S**

ALHLT 3053 ADVANCED MEDICAL TERMINOLOGY

A continuation of ALHLT 2442 Medical Terminology focusing on a more in-depth study of medical vocabulary. The course contains a broad study of medical science such as medical laboratory, radiology and other diagnostic modalities, as well as an overview of pharmacology, including drugs used to treat conditions under study. **Prerequisite: ALHLT 2442. F**

ALHLT 3072 APPLIED MEDICAL VOCABULARY

A follow up to ALHLT 2442 Medical Terminology whereby students will apply learned principles in medical vocabulary to actual health documentation. Utilization of pharmacology and diagnostic and therapeutic medical interventions will also be addressed. Two hours per week. **Prerequisite: ALHLT 2442, BIOL 2214. S**

ALHLT 3093 DIETETICS IN HEALTH AND ILLNESS

A study in advanced nutritional concepts including individual nutrients and their association with disease states. Three hours of lecture per week. **Prerequisites: BIOL 1004 or BIOL 1054 and CHEM 1004 or CHEM 1203 and lab.**

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), SU**

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. **Prerequisites: (ALHLT 3933 or ALHLT 4043) and ALHLT 3193. 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,S**

ALHLT 4074 PATHOPHYSIOLOGY

This course analyzes structure and function of the human body related to disease and injury. Three hours of lecture per week, 2 hours of lab. **Corequisite: ALHLT 4074L. Prerequisite: ALHLT 2442. Previous course in Human Anatomy and Physiology recommended. F,S**

ALHLT 4313 MEDICAL PARASITOLOGY

This course provides an applied overview of viral, fungal, bacterial and eukaryotic parasites infecting humans. Lab techniques include the collection, isolation, cultivation & identification of parasites. Two hours of lecture and two hours of laboratory per week. **Prerequisite: ALHLT 4355. Corequisite: ALHLT 4313L. FE**

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 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 2531 DIRECTED OBSERVATION IN ATHLETIC TRAINING

Meets the admission requirements for students in the allied health professional program of Athletic Training. Upon successful completion of this course, students will possess the observation requirements for application to the professional portion of Athletic Training Education Program. **F, S**

ATEP 2633 CARDIAC AND EMERGENCY CARE

Designed specifically for pre-professional health related fields, students will utilize and integrate appropriate cardiac and emergency techniques into a variety of first response situations. Course includes the provision of American Red Cross Certification in: professional rescuer CPR (2 person, bag-value-mask): adult, infant, and child CPR, automated external defibrillator use and obstructed airway training, oxygen and first aid administration. **F, S**

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 complement 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. Concurrent enrollment in ATEP4344 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. Course includes laboratory experiences. **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. Course includes laboratory experiences. **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. **S**

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. **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 project management. **Corequisite: MEDRC 3023L. 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. 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. The course includes two hours of lecture and three hours of lab per week. **Corequisite: MEDRC 3333L. Prerequisite: ALHLT 4064 and MEDRC 3352. F**

MEDRC 3343 CODING II

This course provides information on CPT coding principles and the outpatient prospective payment system as well as effective management of coding services for both inpatient and outpatient systems. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. **Prerequisite: MEDRC 3333. Corequisite MEDRC 3343L. S**

MEDRC 3352 INTRODUCTION TO REIMBURSEMENT AND CLASSIFICATION SYSTEMS

Introduction to health care reimbursement methodologies currently in use within the United States including an overview of the Medicare prospective payment system/DRG's for hospital inpatients and of reimbursement systems including RBVS, APCs and other pertinent systems for ambulatory care. The course also includes an introduction to classification systems utilized in collecting, maintaining, and retrieving specified clinical data in a variety of health care settings with an emphasis on ICD-9-CM coding data and the relationship of coding to reimbursement; specialized and emerging classifications and nomenclatures. **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. 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. 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.

MEDRC 4082 HIM PROFESSIONAL REVIEW

A capstone course designed to review learned HIM professional applications, practice, and principles to assist in preparing the student to successfully complete the national registration exam and to be able to successfully meet the entry level competencies of the HIM profession. **S**

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.

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: (CHEM 1004 or CHEM 1203) and BIOL 1004. F, S, SU**

ALHLT 4093 EPIDEMIOLOGY

Factors that influence the occurrence, distribution, control, and prevention of disease will be examined. Emphasis is on infectious disease problems, but non-infectious diseases are considered. Three

hours of lecture per week. **Prerequisite: ALHLT 4355. F, S, SU (Interactive in Spring semester 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

Provides an overview of microbial physiology, molecular genetic mechanisms of pathogenicity, disease pathology and clinical diagnostic procedures. Emphasis is placed on specific bacterial and viral pathogens. 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. SO**

ALHLT 4503 MICROBIAL PHYSIOLOGY

This course involves the physiological and biochemical activities of bacteria with emphasis on structure, function, and molecular genetic control mechanisms. Pathogenic and non pathogenic bacteria are considered. Three hours lecture per week. **Prerequisite: ALHLT 4355. D**

ALHLT 4523 ENVIRONMENTAL MICROBIOLOGY

Lecture and laboratory instruction on microbe-microbe and microbe-environment interactions. 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: ALHLT 4523L. Prerequisite: ALHLT 4355. SE**

Clinical Laboratory Scientist Clinical Courses (Taught only at CLS accredited hospitals)

CLS 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.

CLS 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.

CLS 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.

CLS 4246 CLINICAL IMMUNOLOGY/ IMMUNOHEMATOLOGY

Lecture on immunologic (antigen-antibodies) responses, serological methodology and theory of immunohematology as applied to blood groups, types, compatibility testing, and blood components. Supervised instruction in immunology and immunohematology methodology with emphasis of clinical decisions and medical significance; including quality control, computer application, instrumentation, quality assurance/improvement, safety and governmental regulations.

CLS 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.

CLS 4351 TOPICS IN CLINICAL LABORATORY SCIENCE

Lectures on principles and practices of the Clinical Laboratory Scientist including management education (health care delivery system, ethics, professionalism, communication skills, human resources and financial management), performance improvement, education methodology, laboratory information systems, safety and governmental regulations, and research design/special projects.

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

DEPARTMENT OF EDUCATION

Early Childhood

ECED 4163 PERCEPTUAL DEVELOPMENT IN INFANTS AND TODDLERS

Study of hereditary and environmental determinants of perceptual development of infants and toddlers and their effects on the learning process of children with and without disabilities.

ECED 4423 PLAY METHODS AND MATERIALS IN PRESCHOOL AND KINDERGARTEN

A survey of the use of play as a learning and socializing process. Special emphasis will be given to topics such as theories, types, stages of play, and play materials and equipment in relationship to various play environments and therapies. **Prerequisite:** Admission to Teacher Education Program. F, 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 4612 PRACTICUM IN EARLY CHILDHOOD EDUCATION

Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation; one hour conference.) **Corequisite:** ECED 4612L.

ECED 5163 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

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

Educational Foundations

EDUC 2113 FOUNDATIONS OF EDUCATION

Introduction to the historical, philosophical, and social foundations of education and their relationships to teaching as a profession. Current issues in education are also introduced and discussed. Laboratory experiences as an observer/aid in the public schools and procedures for admission to teacher education are included. **F, S, SU**

EDUC 3321 MULTICULTURAL/SPECIAL POPULATION

Study of multicultural education and how teachers work with students of different backgrounds and cultures. Also will study concepts of inclusion, mainstreaming, and least restrictive environment, for students who have been identified as handicapped. **Prerequisite: Admission to Teacher Education Program, the Preprofessional semester, and concurrent enrollment in Student Teaching and the Four Week Block sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S**

EDUC 4021 CONTEMPORARY ISSUES IN EDUCATION

A four-week block course required of all students seeking a degree or certification in Teacher Education. The class provides candidates with essential knowledge, skills, and resources needed during the student teaching block experience. The class also includes two days of observation in the assigned cooperating classroom and one field trip to diversely populated school sites. **Prerequisites: Admission to Teacher Education Program, the Pre-Professional Semester, and concurrent enrollment in Student Teaching and the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S**

EDUC 4041 CLASSROOM MANAGEMENT

Students learn to effectively manage attention, momentum, discipline, space, time, and routines in the classroom in order to facilitate optimal student learning. Students learn to understand and apply principles of motivation to enhance student achievement through knowledge of the role of expectations, climate, and personal relationship building. Students develop a personal management system tailored to their individual philosophies and personalities as well as to the needs and traits of students and the social realities of schools and communities. **Prerequisites: Admission to Teacher Education Program, the Pre-professional semester, and concurrent enrollment in Student Teaching and the Four Week Block sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, S**

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.**

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: 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**

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

Literature

LIT 4463 CHILDREN'S LITERATURE

Survey of appropriate children's literature and a study of interests and abilities governing the choice of literature for K-8 grades.

Prerequisites: Admission to the Teacher Education Program and RDNG 3423.

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 5183 ANALYSIS OF READING SYSTEMS

Basal readers, language experience, individualized, augmented alphabet, phonic, linguistic, programmed and interdisciplinary approaches are examined, discussed, and reviewed. **Prerequisite:** Admission to Graduate Program.

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

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

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 3313 INTRODUCTION TO SEVERE PROFOUND MULTIPLE DISABILITIES

A comprehensive overview of the characteristics, identification, and placement of students with severe, profound, and multiple disabilities. The course offers a study of causative-correlation factors and the effect they have on the students throughout the various developmental stages. The course involves various educational trends and issues facing students, families, and teachers. F

SPCED 3213 INTRODUCTION TO MILD AND MODERATE

A comprehensive overview of characteristics, identification, and placement of students with mild and moderate disabilities. The course offers a study of causative-correlation factors and the effect they have on students throughout the various developmental stages. The course involves various educational trends and issues facing students, parents, and teachers that fall under this category. S

SPCED 3433 ASSESSMENT OF EXCEPTIONAL INDIVIDUALS

Study of formal and informal assessment procedures appropriate for the evaluation of all ages with special learning needs. Students construct, administer, score and/or interpret norm-referenced tests, and informal assessment procedures. **Prerequisite:** Admission to Teacher Education Program. F, SU

SPCED 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, 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 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 4863 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 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 5811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES

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

Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite:** Admission to Graduate Program. SU

SPCED 5863 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.

SPCED 5863 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

DEPARTMENT OF KINESIOLOGY

KINES 1133 WELLNESS CONCEPTS AND EXERCISE APPLICATIONS

The course is designed to provide the student with a philosophy of living that encourages a higher quality of life and a state of well-being. Lifestyle choices are identified and explained in regard to proper exercise, weight management, stress management, substance use, sexually transmitted diseases, health care, nutrition, cardiovascular disease prevention, and cancer prevention. Assessment techniques and development of individual prescriptions in the areas of muscular strength, muscular flexibility cardiovascular endurance, body composition, and nutrition are studied. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. F, S, SU

KINES 1153 NUTRITION

A study of the basic principles of nutrition including dietary standards, food habits, nutrients, metabolism, special diets, food fads, and dietary needs of all age groups. F, S

KINES 1161 WELLNESS CONCEPTS/EXERCISE APPLICATIONS LAB

Designed to develop assessment techniques and to develop individual prescriptions in the areas of muscular strength, muscular flexibility, cardiovascular endurance, body composition,

and nutrition. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. **D**

KINES 1201 ELEMENTARY SWIMMING

Instruction in the basic strokes: American crawl, elementary back, side stroke, back crawl, and breast stroke. For non swimmers, adjustment to water, floating, and treading. **D**

KINES 1351 ELEMENTARY BOWLING

The fundamental skills of bowling including instruction in stance, approach, delivery, aiming, and follow-through. Practice in etiquette, scoring, terminology, and forms of competition. **F, S**

KINES 1391 CROSS COUNTRY

Prerequisite: Varsity participation. **F**

KINES 1411 ELEMENTARY GOLF

The fundamental skills of golf including instruction in stance, strokes, clubs, rules, terminology, etiquette, scoring, etc. **D**

KINES 1471 ELEMENTARY TENNIS

Basic instruction in the theory and practice of skills, rules, terminology, etiquette, and game strategy for singles and doubles play. **D**

KINES 1511 PHYSICAL FITNESS

Designed more for male students. Theory and practice of aerobic and weight training activities with learning experiences designed to promote individual fitness. **D**

KINES 1621 SOFTBALL

Prerequisite: Participation in varsity intercollegiate softball. **F**

KINES 1631 BASEBALL

Prerequisite: Varsity participation. **F, S**

KINES 1661 BASKETBALL

Prerequisite: Varsity participation. **F, S**

KINES 1681 VOLLEYBALL

Prerequisite: Varsity participation. **F, S**

KINES 1691 FOOTBALL

Prerequisite: Varsity participation. **F, S**

KINES 1711 SOCCER

Prerequisite: Varsity participation. **F, S**

KINES 1751 TEAM SPORTS

Designed more for women students. Theory and practice of soccer, volleyball, and selected team sports; basic skills, rules, strategy and game play. **D**

KINES 1781 TEAM SPORTS

Instruction and practice in the following team sports: Basketball, softball, and track and field. **D**

KINES 1811 INDIVIDUAL SPORTS

Instruction and practice of fundamental skills of badminton, racketball, tennis, and track and field; knowledge of rules, techniques and strategies associated with play. **D**

KINES 1932 TECHNIQUES AS APPLIED TO GYMNASTICS, FITNESS, & AQUATICS

A study of basic skills, techniques, practices, and methodologies of gymnastics, aquatics, and fitness. The gymnastics component includes work in tumbling and on the various apparatus. The aquatic component will stress progressive learning techniques and aquatic skills of necessity. The fitness component will focus on techniques for attainment as well as assessment of wellness/fitness criteria. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors. **F, S**

KINES 1942 TECHNIQUES AS APPLIED TO INDIVIDUAL SPORTS

A study of basic skills, techniques and practices utilized in various individual sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. **F, S**

KINES 1952 TECHNIQUES AS APPLIED TO TEAM SPORTS

A study of basic skills, techniques and practices utilized in various team sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. **F, S**

KINES 2111 RACQUETBALL

Designed for both male and female participants. Basic instruction in skills, techniques and strategies essential for play in the sport. **D**

KINES 2141 RODEO

Prerequisite: Varsity participation. **F, S**

KINES 2151 WALKING FITNESS

Learn the basic skills for walking. Learn the proper warm-up and cool down procedures. Work on self-assessment of your personal fitness. Monitor your walking with a pedometer. **D**

KINES 2212 FIRST AID

Knowledge in accident prevention, emergency treatment, and care of injuries and illness. American Red Cross standards. **F, S**

KINES 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**

KINES 2242 SPORTS OFFICIATING

Designed to provide an exposure in both women's and men's sport officiating. The course will provide theory and practice in officiating sports like softball, flag football, basketball, volleyball, and other appropriate women's and men's intramural sports. Practical experience in officiating women's and men's intramurals. **F, S**

KINES 2502 CARE AND PREVENTION OF ATHLETIC INJURIES

A study of preventive measures in the athletic and physical education programs. **F, S**

KINES 2601 PARTICIPATION IN INTERCOLLEGIATE SPORTS

Designed for students participating in varsity sports: football, basketball, baseball, track, tennis, golf, softball, rodeo, and soccer. **Prerequisite:** Approval by the coach of the respective sport. **S**

KINES 3133 TEACHING HEALTH IN PUBLIC SCHOOLS

A course designed to study the science of personal and community health, the psychology of teaching health elements of child growth and development and adolescent health problems; planning and organizing for teaching mental health, nutrition, disease control and program appraisal. Understanding the role of health education in the total educational effort. **F, S**

KINES 3333 SAFETY EDUCATION

Safety Education is a course of study designed to provide safety information of a general nature appropriate to today's living. A knowledge base is developed in the areas of home safety, driver safety, job safety, recreation safety, and skill development as well as coping techniques for each. **D**

KINES 3353 HEALTH AND AGING

This course is an interdisciplinary introductory course in geriatrics which examines the processes of normal human aging as well as the common diseases and disorders that affect older persons. This course is designed to provide upper division undergraduate students with an overview of critical issues related to aging and health. Topics covered include: physiology of aging, health behaviors, age-related diseases, managing illness, medical care, and death and dying. Particular attention is given to preventive strategies that maximize function to help more individuals achieve a healthy old age. **F**

KINES 3393 NUTRITION FOR CHILDREN

A study of the basic knowledge of nutrition with emphasis on the nutritional needs of children and ways of implementing nutrition education. **D**

KINES 3443 KINESIOLOGY AND ANATOMY

The study of anatomy, osteology and the muscular system which affect and/or are affected by movement and sports related performance. **F, S**

KINES 3553 METHODS AND MATERIALS IN ELEMENTARY HEALTH, PHYSICAL EDUCATION & RECREATION

Theory and practice in teaching physical education activities at the elementary level with emphasis on methods, materials, planning, and conducting elementary programs. **Prerequisite: Admission to Teacher Education Program. F, S, SU**

KINES 3662 EXERCISE PROGRAMMING FOR SPECIAL POPULATIONS

This course is designed to increase the understanding in the areas of exercise and special populations. This course will provide current information regarding exercise programming, fitness assessment and evaluation. The student will learn to modify exercise for individuals and groups based on age, medical conditions, and special needs. The areas covered will include but are not limited to: coronary heart disease, diabetes, asthma, obesity, osteoporosis, arthritis, pregnancy, and physically and mentally challenged. **F**

KINES 4001-4 INDIVIDUAL STUDY IN HEALTH, PHYSICAL EDUCATION AND RECREATION (TOPIC)

Independent study of specified topic in health, physical education, and recreation for undergraduate students. Credit one to four semester hours. **D**

KINES 4011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION

Group study of specified topic for health, physical education and recreation for the undergraduate student. Credit one to four semester hours. **D**

KINES 4052 SOCIOLOGY OF SPORTS

Study of sports in society as they relate to: Competition at all levels, sports for youngsters, minorities in sports and future of sports. **S**

KINES 4063 LEGAL ASPECTS IN PHYSICAL EDUCATION, RECREATION, AND ATHLETICS

An in depth analysis and study of legal liability for the practitioner as it relates to physical education, recreation and athletics. The course presents an overview of legal issues, duties and liability as they relate to student rights, teacher rights, and conduct of programs, as well as causes and prevention of accidents which could result in liability suits. **F**

KINES 4073 EVALUATION IN PHYSICAL EDUCATION

Knowledge and principles in techniques of evaluation and measurement and test construction in physical education. **D**

KINES 4113 ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION & RECREATION

A study of the organization and administration of physical education programs in the public schools, colleges, and with special populations. **D**

KINES 4122 ORGANIZATION AND ADMINISTRATION OF ATHLETICS

A study of the organization and administration of athletic programs for the public schools and colleges. **D**

KINES 4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS

A study of the content and conduct of intramural sports. Practical experience. **F, S**

KINES 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**

KINES 4243 THERAPEUTIC AND PRESCRIPTIVE PHYSICAL EDUCATION

A course designed to increase knowledge and understanding of the uniqueness of individuals with special needs. Emphasis in modifying physical activities for exceptional children; motor testing; analyses of skill development and principles in techniques of evaluation/assessment in physical education. **F, S**

KINES 4251 INTERMEDIATE RODEO

Varsity rodeo participation. **F, S**

KINES 4262 MOTOR LEARNING

A study of the body of knowledge underlying the development of successful instruction and training strategies critical for skill acquisition. Motor learning issues are viewed from a behavioral perspective with emphasis on application and performance. **S**

KINES 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**

KINES 4353 MOTOR DEVELOPMENT

The study of the acquisition and development of motor skills such as standing, balancing, moving, and manipulating objects as encountered in a child's environment. The further identification and study of the various developmental stages as children pass from early childhood, to middle childhood and to late childhood. **D**

KINES 4443 METHODS OF TEACHING SAFETY EDUCATION

Methods and materials in the conduct of public school safety program. **D**

KINES 4533 CONSUMER HEALTH EDUCATION

A course designed to identify facts and to establish knowledge important to the consumer of today regarding products such as foods, drugs, services, facilities, practices and health information in order to make educated decisions in our everyday lives. **S**

KINES 4541 CAPSTONE EXPERIENCE IN HPE

The Capstone Experience in Health and Physical Education course is designed to be a capstone experience for the HPE major in Teacher Education. The course is the academic crowning point for the major. Information is offered to the student regarding entry into the teaching professional semester and the profession. State comprehensive testing and information is also covered. Additionally, opportunities in the profession and the professional application of the knowledge they have acquired are addressed. **Prerequisite: Admission to Teacher Education Program. Corequisite: KINES 4553. F**

KINES 4553 TEACHERS COURSE IN HEALTH AND PHYSICAL EDUCATION

Problems, methods, and materials for teaching physical education in grades K-12. **Prerequisite:** Admission to Teacher Education Program. **Corequisite:** KINES 4541. **F**

KINES 4802 THEORY OF COACHING FOOTBALL

Designed more for male students. Knowledge and preparation in techniques and methods of coaching football. **F, S**

KINES 4832 THEORY OF COACHING BASKETBALL

Fundamentals and techniques applied to coaching basketball. **F, S**

KINES 4842 THEORY OF COACHING WOMEN'S BASKETBALL

Fundamentals and techniques applied to coaching women's basketball. **D**

KINES 4862 THEORY OF COACHING BASEBALL

Knowledge and preparation in techniques and methods applied to coaching baseball. **F, S**

KINES 4873 CURRICULUM CONSTRUCTION IN HEALTH, PHYSICAL EDUCATION AND RECREATION

A study of the methodology of developing curriculum materials in health, physical education and recreation. **D**

KINES 4882 EXERCISE PRESCRIPTION AND TESTING

This course is designed to give the student an introduction to field and laboratory tests used to assess physical fitness components as well as the utilization of principles of exercise prescription. The student will develop the knowledge and skills to design exercise prescription programs for apparently healthy individuals as well as individuals who have a cardiac, pulmonary or metabolic condition. **S**

KINES 4892 THEORY OF COACHING TRACK & MINOR SPORTS

A study of the techniques of coaching track and minor sports. **D**

KINES 4995 PRACTICUM IN EXERCISE SCIENCE

A practicum provides the Exercise Science major with a field experience where the student has an opportunity for "hands on" work in one of the many avenues of Exercise Science. The goal of the professional experience is to introduce the major to practicing professionals and their respective organizations, involving 200 hours of practicum experience in Exercise Science. These experiences give the student a personal look at their future professional occupations. Their skills and knowledge are enhanced and they have an opportunity to confirm or modify their career goals.

KINES 4997 PRACTICUM IN EXERCISE SCIENCE

A practicum provides the Exercise Science major with a field experience where the student has an opportunity for "hands on" work in one of the many avenues of Exercise Science. The goal of the professional experience is to introduce the major to practicing professionals and their respective organizations, involving 280 hours of practicum experience in Exercise Science. These experiences give the student a personal look at their future professional occupations. Their skills and knowledge are enhanced and they have an opportunity to confirm or modify their career goals.

KINES 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**

KINES 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**

KINES 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**

KINES 5552 HEALTH EDUCATION IN THE PUBLIC SCHOOL

Designed to acquaint teachers with areas of health education, health instruction, health services, and healthful school living; development of programs. **Prerequisite:** Admission to the Graduate Program.

DEPARTMENT OF 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 3132 WILDERNESS SURVIVAL

Theory and practice of survival/primitive living in remote, wilderness settings. Topics include edible plants, shelter building, snare construction, bow and drill construction/fire starting, implement construction, etc. **F, S**

PRM 3142 ADVANCED WILDERNESS SURVIVAL

Theory and practice of advanced survival in remote, wilderness settings. Topics include advanced foraging, water procurement, shelter construction, and fire starting. This course is held entirely in wilderness settings. Three nights of camping are required. Students will procure the entirety of their meals and water from the surrounding environment. **SU**

PRM 3152 SCUBA

Theory and practice of skills and techniques, selection of equipment, safety procedures, and physics of scuba diving. **Prerequisite:** Advanced swimming skills. **F, S, 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 3171 LIFEGUARD INSTRUCTOR

Based on requirements of the American Red Cross Lifeguard Instructors Certification course. Successful completion leads to certification with the American Red Cross as a lifeguard instructor. Lifeguard instructor course is designed to produce basic and advanced lifeguarding skills. **D**

PRM 3181 ROCK CLIMBING

Theory and practice of rock climbing. This physically demanding, overnight course involves instruction in knot tying, natural and

artificial anchor rigging, top-rope climbing techniques, and placement of artificial climbing protection. **SU**

PRM 3191 BACKPACKING

Theory and practice of extended duration wilderness travel. This physically demanding overnight course involves foot travel of approximately 20 miles while carrying all necessary equipment. Topics include gear selection, pack loading, land navigation, water purification, food preparation, campsite selection, etc. **SU**

PRM 3201 TRAIL RIDING

Theory and practice of equestrian trail riding. Topics include basic equestrian care, equestrian travel, land navigation, and camping. **F, SU**

PRM 3211 OUTDOOR EDUCATION / ADVENTURE PROGRAMMING

Designed to increase knowledge and understanding of a variety of activities associated with outdoor education and adventure programming including: low and high challenge course, artificial rock climbing, canoeing, sailing, rappelling, and rappelling self-rescue. Historical background and theoretical perspectives of outdoor education and adventure programming will be discussed. **SU**

PRM 3221 OUTDOOR EDUCATION FOR TEACHERS

Designed to expose current and prospective teachers to a variety of outdoor education and adventure activities that can be conducted on or near school grounds. Topics include: initiative games, low ropes course activities, group processing, knot tying, topographic map reading, compass techniques, field guide use, and hiking. Exposure to historical background and theoretical perspectives of outdoor education and adventure programming. **D**

PRM 3262 ADVANCED SCUBA / SLAM

Theory and practice of advanced SCUBA techniques including SCUBA lifesaving and accident management techniques. Leads to YMCA certification in Advanced SCUBA and SLAM (SCUBA Lifesaving and Accident Management). **D**

PRM 3421 BASIC ROPES COURSE FACILITATOIN

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 3503 SPORTS MANAGEMENT

Theory and practice of sports management. Topics included sports management, marketing, human resource management, contracting, and related areas. **F, S**

PRM 3663 RECREATION MANAGEMENT

Theory and practice of parks, recreation, and leisure service management. Topics include fiscal management, human resource management, and risk management in the parks and recreation field. **F, S**

PRM 3702 RECREATIONAL AREAS AND FACILITIES MANAGEMENT

Theory and practice of recreational areas and facilities management. Special emphasis is placed on planning and design of parks, recreational, and sporting areas and facilities. **S**

PRM 4001-4 INDIVIDUAL STUDY IN PARKS AND RECREATION MANAGEMENT

Individual study of specified topic for Parks and Recreation Management for the undergraduate student. Credit 1-4 semester hours.

PRM 4011-4 SEMINAR IN PARKS AND RECREATION MANAGEMENT

Group study of specified topic for the Parks and Recreation Management undergraduate student. Credit of one to four semester hours. **D**

PRM 4113 RISK MANAGEMENT IN RECREATION

Designed to expose parks and recreation management/park law enforcement majors and minors to current trends and issues relating to risk management and legal liability minimization. **F, S**

PRM 4122 RECREATION AND SPORT MANAGEMENT LAW

An intensive study of legal issues relating to parks, recreation, and sport management. **F**

PRM 4132 RECREATION AND SPORT EMPLOYMENT LAW

An intensive study of legal issues relating to employment/human resource management in parks, recreation, and sport agencies. **S**

PRM 4142 ETHICS IN RECREATION AND SPORT MANAGEMENT

An intensive study of ethics in park, recreation and sport management. **S**

PRM 4152 RECREATION AND SPORT MANAGEMENT STATISTICS

Designed to provide the student with a solid foundation in the field of statistics. The course is taught through the lens of recreation and sport management. Topics include measures of central tendency, analysis of variance, multiple regression analysis, etc.

PRM 4163 COMMUNITY RECREATION

Organization and administration of community based parks and recreation areas, facilities, and programs. **F, S**

PRM 4172 NATURAL RESOURCE LAW

An intensive study of federal and Oklahoma laws relating to land, water, wildlife and environmental management. **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 4332 ADVANCED FIREFIGHTING METHODS

This course is designed to further the students knowledge of portable pumps, the use of water and the use of fireline reference tools. **Prerequisites:** PRM 4301 and PRM 4322.

PRM 4341 FIRELINE SAFETY/ICS

This course teaches the student what to observe in the wildland fire environment and how to anticipate fire behavior using the observations, as well as a more detailed look into the incident command system. **Prerequisites:** PRM 4301 and PRM 4322.

PRM 4352 WILDLAND FUEL REDUCTION

This course combines classroom instruction with practical field exercises to demonstrate effective fuel reduction on wildlands. **Prerequisites:** PRM 4301 and PRM 4322.

PRM 4362 IGNITION OPERATIONS

This course provides instruction relating to the functional roles and responsibilities associated with wildland firing operations. **Prerequisites:** PRM 4301 and PRM 4322.

PRM 4371 FIRELINE LEADERSHIP

This course is designed to help the student in the preparation of stepping into a leadership role regarding firefighting. The course will combine classroom instruction with a field leadership assessment course. **Prerequisites:** PRM 4301 and PRM 4322.

PRM 4502 RODEO MANAGEMENT

Theory and practice of rodeo management. Includes rodeo planning, marketing, and execution.

PRM 4513 GOLF MANAGEMENT

Theory and practice of golf course management. Special emphasis will be placed on fiscal and human resource management issues, PGA standards, marketing, and turf management practices. **F, S**

PRM 4533 SPORT INFO MANAGEMENT

Sports Information Management will provide the student with an overview of the sports information field. Topics will include marketing, fundraising, statistics, and media contact.

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 5001-4 INDEPENDENT STUDY IN PARKS AND RECREATION MANAGEMENT

Independent study in Parks and Recreation Management and associated fields. **D**

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.

DEPARTMENT OF PSYCHOLOGY**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. **By permission only. Prerequisite: Admission to Graduate Program.**

COUN 5213 COMMUNITY COUNSELING

A course for prospective community counselors designed to investigate the special characteristics and functions of community counseling. **Prerequisite: Admission to Graduate Program. S, SU**

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 5373 THEORIES/TECHNIQUES OF FAMILY COUNSELING

A survey of family counseling theories and techniques with special emphasis on family relationships, assessment, intervention, and treatment. **Prerequisite: Admission to Graduate Program. F, 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. **Prerequisite: Admission to Graduate Program. F, S, SU**

COUN 5523 CAREER COUNSELING

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: Admission to Graduate Program. 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 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 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 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. **Prerequisite: Admission to Graduate Program. 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 5462 PSYCHOMETRICAL SERVICES

A study of the ethics, legal responsibilities, roles, and functions of Psychometrists in multiple settings. **Prerequisites: Admission to Graduate Program, Advisor Approval. S**

EDPSY 5563 SPECIAL DIAGNOSTIC METHODS

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. **Prerequisites: Admission to Graduate Program and Advisor Approval. S**

EDPSY 5613 BINET/WOODCOCK JOHNSON

Study of the historical development, validation procedures, and test content of the Stanford Binet/Woodcock Johnson Intelligence tests. Students will administer, score, and interpret the Stanford Binet Intelligence Scale-R and the Woodcock Johnson. **Prerequisites: Admission to Graduate Program, Advisor Approval. S**

EDPSY 5703 BEHAVIOR MANAGEMENT FOR TEACHERS

This course provides information about behavioral assessment methods; strategies for increasing the frequency of appropriate student behaviors; cognitive behavioral systems of instruction; techniques for reduction of excessive behaviors; legal and ethical issues for schools, interventions for disruptive behavior, noncompliance, impulsivity; inattention; hyperactivity; aggressive behavior, temper tantrums and other antisocial behaviors. The student will study how to use behavioral learning theory in instructional design and cultural influences on behavior. **Prerequisite: Admission to Graduate Program. F, SU**

EDPSY 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 scales. **Prerequisites: Admission to Graduate Program, Advisor Approval. F, SU**

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 Graduate Program. F, S, SU**

EDPSY 5743 LIFE SPAN DEVELOPMENT

An examination of the increasingly complex factors which influence overall development of individuals throughout the life span concept. Included in this presentation are psychological foundations, maturational development, learning capability, social adjustment, and career preparation. **Prerequisite:** Admission to Graduate Program.

EDPSY 5782 PRACTICUM IN SCHOOL PSYCHOMETRY

Supervised experiences in the administration, scoring, and interpretation of individual intelligence scales and other diagnostic assessment/evaluation instruments. **Prerequisites:** Admission to Graduate Program, Advisor Approval. F, SU

Psychology**PSYCH 1003 GENERAL PSYCHOLOGY**

A general education course which provides an overview of psychology with an emphasis on the applied areas in the field. F, S, SU

PSYCH 2423 SOCIAL PSYCHOLOGY

A scientific survey of the social determinants of behavior including a review of contemporary theory and methodology involved in studying social behavior. **Prerequisite:** PSYCH 1003. F, S

PSYCH 2433 PSYCHOLOGICAL STATISTICS

Statistical methods applied to the behavioral sciences. The understanding and application of descriptive and inferential statistics. Covers topics from central tendency to analysis of variance. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3201-4 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (TOPIC)

Analysis of current topics in psychology. This course offers the student and instructor an opportunity to explore in depth selected problems of current interest. Credit one to four semester hours. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3213 DEVELOPMENTAL PSYCHOLOGY

A study of the physical, cognitive, psychological, and social development of the individual from the prenatal period through the aging adult. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3224 RESEARCH METHODS

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 MEMORY

Overview of traditional and contemporary learning principles and theories. **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 4133 PSYCHOLOGY OF SPORTS

A lecture/seminar course that will examine the effect of psychological and emotional factors on sport and exercise performance, and the effect of sport and exercise involvement on psychological and emotional factors. The course will examine educational, research and applied information on the topic. **Prerequisite:** PSYCH 1003. SU

PSYCH 4203 PSYCHOLOGY OF WOMEN

This course is designed to examine the differences in behaviors and mental experiences of women and men. An emphasis will be placed on developing an understanding of how differences between men and women are explained both by various professions and the public. **Prerequisite:** PSYCH 1003. S

PSYCH 4223 MEDIA AND MENTAL ILLNESS

Designed to develop an increased student understanding of the impact of psychological dysfunctions demonstrated by areas of instruction which include interactive effects, interpersonal relationships, cultural attitudes toward psychological disorders, effects of institutional treatment, and responses to abnormal behavior. **Prerequisite:** PSYCH 1003. 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

PSYCH 5112 SEMINAR IN SCHOOL PSYCHOLOGICAL SERVICES

A survey of the services provided by school psychology which reflect a commitment to understanding and responsiveness to human diversity. Included in this survey are such areas as the organization and operation of schools and the designing, implementing, and evaluating interventions that effectively respond to the educational and mental health needs of children and youth. The primary objective of this survey course is to explore the professional commitment to the enhancement of human development and capability through the application of school psychological services. **Prerequisite:** Admission to Graduate Program.

PSYCH 5133 CRISIS INTERVENTION TECHNIQUES

An applied course in the principles and use of crisis intervention techniques within clinical and institutional settings. **By signature only.** **Prerequisite:** Admission to Graduate Program.

PSYCH 5223 TECHNIQUES OF PSYCHOTHERAPY

Advanced study in treatment conceptualization, strategies, and techniques derived from theories of psychotherapy. **By signature only.** **Prerequisite:** Admission to Graduate Program.

PSYCH 5413 PERSONALITY THEORIES AND RESEARCH

An in-depth coverage of the major theoretical approaches to personality with the objective of integrating theory and research. **By signature only.** **Prerequisite:** Admission to Graduate Program.

PSYCH 5422 PRACTICUM IN SCHOOL PSYCHOLOGY

A sequence of closely supervised experiences in which students practice and are evaluated regarding their respective mastery of distinct skills and knowledge bases consistent with the goals and objectives of the School Psychology program. These experiences include, but are not limited to, orientation to the educational process, assessment for intervention, direct intervention methods including counseling and behavior management, and the indirect intervention methods including consultation. Student performance will be systematically evaluated in each area. **Prerequisite:** Admission to Graduate Program.

PSYCH 5513 INTERNSHIP IN SCHOOL PSYCHOLOGY I

A comprehensive internship consisting of 500 clock hours of direct service in which students are required to demonstrate, under supervision and evaluation, their respective ability to integrate knowledge bases and skills in providing a broad range of school psychological services. The internship is the culminating component in school psychology graduate education. It provides the student the opportunity to work with diverse client populations, a range of problems, and different types of human service programs, using varied intervention methodologies. **Prerequisite:** Admission to Graduate Program.

PSYCH 5523 INTERNSHIP IN SCHOOL PSYCHOLOGY II

A comprehensive internship consisting of 500 clock hours of direct service in which students are required to demonstrate, under supervision and evaluation, their respective ability to integrate knowledge bases and skills in providing a broad range of school psychological services. The internship is the culminating component in school psychology graduate education. It provides the student the opportunity to work with diverse client populations, a range of problems, and different types of human service programs, using varied intervention methodologies. **Prerequisite:** Admission to Graduate Program.

PSYCH 5783 ADVANCED PSYCHOLOGICAL TESTING

A study of various psychological techniques used in the assessment of personality and psychological disorders. **Prerequisite:** Admission to Graduate Program. F

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. 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 AND TECHNOLOGY

DEPARTMENT OF ACCOUNTING AND FINANCE

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 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 Chair approval. D

ACCTG 4013 SEMINAR IN ACCOUNTING (TOPIC)

Group study of specified topics in accounting. **Prerequisite:** Instructor and Advisor approval. D

ACCTG 4113 ACCOUNTING FOR 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 Chair's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Chair. 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 Chair 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. D

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 Chair's office. **Prerequisite:** Approval by the supervising faculty, MBA advisor, and Chair. 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 3323 or equivalent and MBA advisor approval. D

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. **D**

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**

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 Chair approval. **D**

FINAN 4013 SEMINAR IN FINANCE (TOPIC)

Group study of specified topics in finance. **Prerequisite:** Instructor and Advisor approval. **D**

FINAN 4063 FINANCIAL INSTITUTIONS AND MARKETS

The study of financial markets and institutions, government regulation, planning, and analysis. **Prerequisite:** FINAN 3343. **S**

FINAN 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 Department of Accounting and Finance who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Chair. **D**

FINAN 4513 PORTFOLIO MANAGEMENT I

First of two courses addressing the tools and processes available to manage the cash resources and meet the financial goals of the individual investor/enterprise. Students will construct, manage, track, and report results of an investment portfolio. **Prerequisite:** Instructor approval. **D**

FINAN 4523 PORTFOLIO MANAGEMENT II

A continuation course of FINAN 4513. **Prerequisite:** Instructor approval. **D**

FINAN 4763 OPTIONS, FUTURES AND DERIVATIVE SECURITIES

A comprehensive course in the valuation and trading of all derivative securities including futures and options; to provide an understanding of the participant's differing objectives relative to profits. **Prerequisites:** FINAN 3343 and FINAN 3663. **D**

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 Chair 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 Chair's office. **Prerequisites:** Approval by the supervising faculty, MBA advisor, and Chair. **D**

DEPARTMENT OF ENTREPRENEURSHIP AND COMPUTER SYSTEMS

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 database. **F, S, SU**

COMSC 1033 COMPUTER SCIENCE I

This course is an introductory programming course using the Java language. It covers an overview of Java Virtual Machine. This course will focus on algorithms, problem solving, and program design, attributes, methods I/O, data types, expressions, loops, decision statements, functions, and an introduction to object oriented programming concepts. **F, S**

COMSC 1053 COMPUTER SCIENCE II

This course is a continuation of Computer Science I. It covers Java language topics including Objects, Methods, Classes, Attribute

Definition, Inheritance, Encapsulation, and Object Oriented thinking, design, and programming. Emphasis will be on program design, modularity, debugging, and documentation. **Prerequisite:** COMSC 1033. F, S

COMSC 1103 INTRODUCTION TO INFORMATION SECURITY

This course is an overview of the fundamentals of a practical information security program with special emphasis on information security awareness, security systems development, implementation, and maintenance. This course provides an integrated, comprehensive, up-to-date coverage of the information security policies, process, computer science techniques, security tools, and awareness vital to information security. The classroom instruction provides a practical approach (case scenarios) of both the principles and practice of information, computer, and network security for the enterprise and home. S

COMSC 1433 VISUAL BASIC PROGRAMMING

This course provides students with the knowledge and skills needed to develop applications in Microsoft Visual Basic .NET for the Microsoft .NET platform. The course focuses on user interfaces, object-oriented programming, language syntax, and implementation details. It also introduces ADO.Net for database access and Crystal Reports. F, S

COMSC 2043 DISCRETE STRUCTURES

Introduction to discrete mathematics for computer science. Sets, functions, propositional and predicate logic, Boolean algebra, graph theory, matrices, proof techniques, combinatorics and finite state machines. **Prerequisites:** COMSC 1033 and MATH 1513. F

COMSC 2413 DATA STRUCTURES

This course introduces the techniques needed to manipulate commonly occurring data structures. It begins reviewing the Java approach to data abstraction and continues treatment of how to create and maintain various data structures as arrays, stacks, queues, linked lists, binary search trees, hash and binary heaps. Algorithms (e.g. divide and conquer, time complexity, sorting, Big O) and efficiency are also discussed. **Prerequisite:** COMSC 1053. F

COMSC 2463 PROGRAMMING IN C# AND .NET

Introduction to programming in C# for students with programming experience. Programming topics include network sockets, multithreading, and advanced applications using C# such as development of database driven applications using C#, ADO.NET, and ASP.NET. **Prerequisite:** COMSC 1033. S

COMSC 2473 PROGRAMMING IN C++

Emphasis in this course will be object-oriented C++. Topics include definition of class, data abstraction, pointers, member functions, friend functions, pointers, static class member, operator overloading, inheritance, virtual function, polymorphism, template, exception handling, reusability, generic algorithms in C++, and introduction to Standard Template Library. Extensive programming exercises in C++ are required. **Prerequisite:** COMSC 1033 or familiarity with a modern programming language. F

COMSC 2603 NETWORK SECURITY

This course will take an in-depth look at network defense concepts and techniques. It will examine theoretical concepts that make the world of networking unique. This course will also adopt a practical hands-on approach when examining network defense techniques. Along with examining different network defense strategies, this course will explore the advancement of network implementation, as well as, timeless problem solving strategies. F

COMSC 3013 COMPUTER ARCHITECTURE

Study of a modern computer system as a layered structure. Digital logic, micro programming, Von Neumann machines, operating systems, assembly and high-level virtual machines, emphasizing fundamental concepts of each layer in the hierarchy and relationships between the layers. **Prerequisite:** COMSC 1053. S

COMSC 3043 SYSTEMS PROGRAMMING

The aim of this course is to introduce students to the concepts essential for understanding how to make use of the resources provided by a multi-processing operating system. Particular attention is paid to utilities that may be available for systems management tasks and to questions of inter-process communication. The course falls fairly naturally into five parts: utilities, system calls, networking, inter-process communication, the OSI network model, Sockets and Remote Procedure Calls. The system of reference is Linux/Unix. **Prerequisite:** COMSC 2413. S

COMSC 3053 OPERATING SYSTEMS

Introduction to different types of operating systems, overview of operating system architecture, processes, shared resources, security, memory management, resource allocation, scheduling deadlocks, and file management. Emphasis will be on the algorithms associated with the above concepts and implementing them as programming assignments individually. **Prerequisite:** COMSC 1053. F

COMSC 3133 SOFTWARE ENGINEERING

Techniques and procedures for developing software products and supporting documentation. Emphasis on software life cycle models and teamwork in the development of software products. **Prerequisite:** COMSC 1053. F

COMSC 3153 DATA COMMUNICATIONS AND NETWORKS

This course is an introduction to data communication technology and protocols/standards, local area networks, wide area networks, and the Internet is provided. **Prerequisite:** COMSC 1033 or COMSC 1433.

COMSC 3353 SYSTEMS ANALYSIS AND DESIGN

A study of the techniques for needs analysis development of requirements specifications for an application system is undertaken in this course. The implementation of operational systems and selection of hardware/software are examined in detail. The importance/impact of organizational behavior is evaluated in the context of support systems design. Topics such as System Development Life Cycle (SDLC) and Rapid Application Development (RAD) will be covered. Process analysis and design, development of functional specifications, physical design, and operational design will be discussed in test cases presented to and by students. **Prerequisite:** COMSC 1053. F

COMSC 3403 DATABASE SYSTEMS

Introduction to relational databases, study of relational database model, entity relationship modeling, normalization, SQL language, transaction management and concurrency control. Includes implementation, and maintenance of databases using Database Management Software (DBMS) products. **Prerequisite:** COMSC 1022. F, S

COMSC 3513 IS PROJECT MANAGEMENT

This course will train the students in planning, scheduling, and controlling an Information System (IS) project during its life cycle. Techniques for planning, scheduling, and controlling projects will be discussed and applied. Demonstrations and exercises in using project-management software (such as Primavera and MS project) are provided. Students will be given an opportunity to develop and execute an IS project and address issues such as staffing, scheduling, risk assessment and control, and project close-out. **Prerequisite:** COMSC 1022. F

COMSC 3603 HARDWARE/SOFTWARE CONCEPTS

This course provides an overview of computers and computer systems. It covers topics such as systems architecture, the relationships between hardware architecture, systems software, applications software, communications protocols, and storage technologies. The relationship between the design parameters of hardware and systems software and the development process for application programs are analyzed. The emerging Internet technologies including hardware and software are discussed. S

COMSC 3913 WEB DEVELOPMENT

A study of web development using Macromedia Dreamweaver. Covers static and dynamic content, links, page layout, cascading styling sheets, and media objects. A significant student project is required. **F**

COMSC 3933 MULTIMEDIA SYSTEMS-DESIGN AND EVALUATION

An investigation of multimedia systems and their applications. Techniques and processes for creating professional presentations based on utilization of sound, clip art, video, and text will be studied. Students will also examine the effect of multimedia presentations on social issues associated with the application environment. **Corequisite: COMSC 3913 or departmental approval. 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 4033 PRINCIPLES OF PROGRAMMING LANGUAGES

The aim of this course is to introduce students to the general principles and concepts underlying programming languages, including such topics as syntax and its specification, exception handling and memory management. Students will see how these topics fit into different types of programming languages which can be classified as logical, procedural, and object oriented. **Prerequisite: COMSC 2043. F**

COMSC 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. S**

COMSC 4133 DESIGN AND ANALYSIS OF COMPUTER ALGORITHMS

Topics include asymptotic notations and analysis, big-O, recurrence relations, sorting (Quick sort, merge sort...) and searching algorithms, divide and conquer, dynamic programming, basic graph algorithms, the greedy method, backtracking, NP-completeness. **Prerequisites: COMSC 2413. F**

COMSC 4453 ADVANCED DATABASE SYSTEMS

This course covers advanced topics in databases. Possible topics include multimedia databases, data on the Web, data mining and data warehousing as well as emerging issues and concepts in database design, implementation, and management. **Prerequisite: INFS 3403. S**

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) are studied. A study of various commercially available expert systems will be undertaken in the context of decision support systems test cases. **S**

COMSC 4913 E-COMMERCE WEB DEVELOPMENT

Topics include introduction to scripting; JavaScript and VB Script, dynamic HTML; Object Model, Collection Model and Event Model, Server Side Web Application Development with Scripting; accessing database and server data, Active Server Pages (ASP.NET), design and implementation of e-commerce transaction applications.

Students will create sites for online order and other information processing using Microsoft's ASP.NET technology. **Prerequisite: COMSC 3913 Web Development. S**

COMSC 4921-3 COMPUTER SCIENCE INTERNSHIP

Designed to prepare the students to cope with the professional challenges in the computer field. Students must complete two hundred forty hours of employment with an approved employer in the area of computer information support or development. Reports, meeting with other interns, and a presentation to the faculty are required. **Prerequisites: COMSC 2413 and departmental approval.**

COMSC 4953 CS/IS CAPSTONE

Students will work in small groups under the supervision of a faculty advisor on real-world problem/requirement defined by a client in consultation with the advisor. The project team will work like a contractor and handle all facets of the project including cost estimation, scheduling, project management and control, technical work, documentation, and client interface. The final product of the program will be a project report. **Prerequisite: Senior Standing. F**

Entrepreneurship

ENTRP 1123 INTRODUCTION TO BUSINESS

Introductory course for students of all business disciplines and undecided majors. Survey of basic principles, forms, and practices involved in administration of a business firm. Not open to junior or senior majors or minors in the School of Business. **D**

ENTRP 3113 INTRODUCTION TO MIS

Introduce issues relevant to management, information and computer systems. Intended to provide students with an overview of information systems. Students will gain knowledge in organizing, monitoring and controlling information systems resources and addressing management problems using computerized information systems. **Prerequisite: Basic knowledge and ability to use a computer system. F, S, SU**

ENTRP 3123 LEGAL ENVIRONMENT OF BUSINESS

An introduction to the legal system in the United States. Students are encouraged to analyze case law and legal precedent. Primary legal topics covered include constitutional, administrative, contract, tort and criminal law. **Prerequisite: Junior standing. F, S**

ENTRP 3173 INFORMATION/RECORDS MANAGEMENT SYSTEMS

Introduction to the field of records management, awareness of the rapid changes in records management technology, and the growing career opportunities available in the records management field. Content includes a study of various filing systems and use of database software. **D**

ENTRP 3223 COMMERCIAL LAW

A study of the Uniform Commercial Code dealing with the sale of goods, commercial paper, secured transactions, debtor-creditor relations, documents of title and agency. **Prerequisite: GEBUS 3123. S**

ENTRP 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. **D**

ENTRP 3423 BUSINESS COMMUNICATION

A survey course of communication skills needed in the business environment. Content includes writing memoranda, letters, reports, resumes, and electronic messages; delivering oral presentations; and developing interpersonal skills. Critical thinking and problem solving skills are emphasized. Development of these skills is integrated with the use of technology. **Prerequisites: ENGL 1213, COMM 1313, and Junior standing. F, S**

ENTRP 3723 INTERNATIONAL BUSINESS

An examination of international business theory and practices. Subjects include the study of the international business environment and its impact in the areas of finance, balance of payments, politics and laws, differing cultures, logistics, marketing, human resources management, and organization. **Prerequisite:** MNGMT 3233. **D**

ENTRP 3823 QUANTITATIVE METHODS IN BUSINESS

This course addresses the component of quantitative skills needed in all areas of business. These skills include mathematical, statistical, forecasting and operations research. Computer utilization is used in analyzing and solving business related problems. **Prerequisite:** ECONO 2463. **F, S, SU**

ENTRP 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:** COMSC 1022. **D**

ENTRP 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 Chair approval. **D**

ENTRP 4013 SEMINAR IN GENERAL BUSINESS (TOPIC)

Group study of special topics in general business. **Prerequisite:** Instructor and Advisor approval. **D**

ENTRP 4123 PROFESSIONAL ISSUES

In-depth study of human relations, job search, job interviewing, resume writing, etc., along with a study of current research/publications on workplace developments. **D**

ENTRP 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 Chair's office. **Prerequisites:** Major in Department of General Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Chair. **D**

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

The Department of Industrial and Engineering Technology schedules all major courses at night on a rotating semester basis.

TECH 1101 INTRODUCTION TO TECHNOLOGY

An orientation course for technology and undeclared students to help prepare the student to successfully accomplish their college career goals. **F, S**

TECH 1203 ENGINEERING DRAFTING

A beginning class in drafting which includes lettering, geometric construction, orthographic projection, sketching, and pictorial drawing. Concepts of computer aided drafting are introduced. **F, S**

TECH 1223 TECHNOLOGY AND SOCIETY

A survey course introducing the student to new and emerging technologies in relation to their economic, social, and global impact on society. **F, S**

TECH 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 1713 APPLIED ELECTRONICS

A comprehensive study of electronic principles and practices with emphasis on electrical units, direct current, Ohm's law, Kirchoff's

laws, magnetism, alternating current, inductance and capacitance, including basic electrical theory, circuit fundamentals, and measurement. The course includes residential, commercial, and industrial systems. **Prerequisite:** MATH 1513. **F, S**

TECH 1733 ARTS AND CRAFTS

Manipulative experience with tools and materials appropriate for teaching basic arts and crafts. **S**

TECH 1813 ELECTRONIC CIRCUIT ANALYSIS

A study of solid state electronics. Topics include: Semiconductor diodes, power supplies, transistors, thyristors, transducers, amplifier circuits, circuit solutions, and network theorems. **Prerequisite:** TECH 1713. **F**

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 ADVANCED ELECTRONIC CIRCUIT ANALYSIS

An in-depth study of amplifiers, oscillators, integrated circuits, electronic control devices and circuits, power regulation, digital signal processing, communications and circuit troubleshooting. **Prerequisite:** TECH 1813. **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 2823. **F**

TECH 3203 COMPUTER AIDED DRAFTING I

A study of computer techniques for drafting including drawing, editing, and plotting commands. AutoCAD software is used to produce orthographic, schematic, pictorial, and architectural drawings. 3D drawing concepts are introduced. **Prerequisite:** TECH 1203. **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 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**

TECH 3513 MATERIALS TESTING AND ANALYSIS

Testing materials for compression, tension and shear, using modern testing and measuring equipment. **Prerequisites:** MATH 1513 or MATH 1613. **F**

TECH 3523 FABRICATION PROCESSES II

Application of precision measuring instruments, foundry practices, ferrous metal heat treating, traditional industrial machine tools and a study of powder metallurgy. **Prerequisite:** TECH 2513. **S**

TECH 3613 POWER SYSTEMS

A study of energy sources, the devices that convert energy into useful work, and the control and transmission of power through mechanical units and fluids. **F, S**

TECH 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 1713 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 1713. **F**

TECH 3833 COMMUNICATIONS ELECTRONICS

A study of communication technologies, wireless (radio transmission and reception, WIFI, and Microwave), wired communication (voice and data transmission topologies), and optical communication (fiber optic and infrared) complex circuitry will be explored implementing the use of signal generators, oscilloscopes, digital meters and transistor tests in the analysis of transistor characteristics as well as trouble-shooting of the circuitry. **Prerequisite:** TECH 1713. **FO**

TECH 3843 TELECOMMUNICATIONS

A study of the concepts and terminology used in the configuration and management of networks. Topics include integration, installation, configuration, management, and security of modern network systems. This class focuses on the current Microsoft network operating system competencies. **Prerequisite:** TECH 1713. **SE**

TECH 3853 ELECTRONIC INSTRUMENTATION

A study of various pieces of equipment used to measure current, voltage, and resistance of electronic circuits. **Prerequisite:** TECH 1713. **SE**

TECH 3863 ELECTRONIC TROUBLE SHOOTING

A study of the knowledgebase and skills necessary to service microcomputer operating systems, including installation, and configuration. This course focuses on the COMP/TIA A+ 220-604. **Prerequisite:** TECH 1713. **SO**

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. **SO**

TECH 4000-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)

Specified topic in technology. Credit one to four semester hours. **D**

TECH 4011-4 SEMINAR IN TECHNOLOGY (TOPIC)

Group study of specified topics in technology for undergraduate students. Credit one to four semester hours. **D**

MFET 4020 PROFESSIONAL CERTIFICATION REQUIREMENTS

Non-credit course required of all students who seek professional certification in Engineering Technology and Industrial Technology. **Prerequisite:** Senior classification. **F, S**

TECH 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

The practical application of electronic theory integrated into the design, documentation, and fabrication of electronic prototypes. **Prerequisite:** Senior status in Electronics Engineering Technology. **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 3D computer applications. Parametric model drawings, assembly, presentation, and detail drawings are produced using a variety of software packages. **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 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. **S**

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 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 the concepts and terminology of networking. Topics include data communications, modems, Local Area Networks, Metropolitan Area Networks, and Wide Area Networks. This course is focused on COMP/TIA Net+ competencies. **Prerequisite:** TECH 1713. **FE**

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 1713. **FE**

TECH 4833 MICROCOMPUTER ELECTRONICS

A thorough examination of microcomputer architecture, power supplies, input/out devices, hardware configuration, peripherals and network connections. This course focuses on the COMP/TIA A+ 220-602. **Prerequisite:** TECH 1713. **FO**

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 1713. **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:** Junior Standing. **S**

TECH 4903 MANUFACTURING ENTERPRISES

A study of the manufacturing industry that emphasizes planning and production aspects. Students will establish a manufacturing corporation then develop, produce and market a product. **SO**

TECH 4913 INDUSTRIAL INTERNSHIP

Student must complete a minimum of 160 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite:** TECH 4900. **D**

TECH 4916 INDUSTRIAL INTERNSHIP

Student must complete a minimum of 320 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite:** TECH 4900. **SU**

TECH 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. **SE**

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. **Prerequisite: Admission to the Graduate Program. SO**

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. **Prerequisite: Admission to the Graduate Program. 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**

DEPARTMENT OF MANAGEMENT AND MARKETING**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**

MNGMT 3533 ORGANIZATIONAL BEHAVIOR

Provides an understanding to behavior in organizational settings. Emphasis will be given to understanding, predicting, and controlling human behavior in both traditional as well as group- and team-oriented organizational structures. Application is accomplished through extensive use of group interaction and in-class experiential exercises. **Prerequisite: MNGMT 3233. F**

MNGMT 4003 INDEPENDENT STUDY IN MANAGEMENT (TOPIC)

Independent study of selected topics under the supervision of a management faculty member. **Prerequisite: Instructor, Advisor, and Chair approval. D**

MNGMT 4013 SEMINAR IN MANAGEMENT (TOPIC)

Group study of special topics in management. **Prerequisite: Instructor and Advisor approval. D**

MNGMT 4123 MANAGERIAL ETHICS

The study of managerial ethics in a dynamic and changing environment. Stakeholders and issues management approaches are reviewed in the decision making process. Both classical and contemporary concepts are explored as an aspect of managerial ethics. Management decisions that are value-laden will be assessed in the moral context. The student will gain knowledge in managing corporate social responsibility and individual ethical leadership. **Prerequisite: MNGMT 3233. D**

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. 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 Chair's office.

Prerequisites: Major in the Department of Management and Marketing, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Chair. **D**

MNGMT 4433 ENTREPRENEURSHIP & NEW VENTURE

A comprehensive course that examines entrepreneurial attitudes and understandings. It focuses on the application of management functions to the operation of small firms: feasibility of owning a business; financial planning and credit management; production and marketing decision making; the role of e-commerce; and human resources management. It focuses on the various steps and procedures necessary for the building of a successful venture. Students are introduced to the theory and practice of entrepreneurship through readings, case studies, web assignments, and a business plan project. **Prerequisites:** FINAN 3343. **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 and other pedagogical tools and techniques. **Prerequisites:** Senior classification, FINAN 3343 AND MNGMT 3233. **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 Chair 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 Chair's office. **Prerequisite:** Approval by the supervising faculty, MBA advisor, and Chair. **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

A comprehensive course in business policy formulation and strategy development, integrating all aspects of business management. The course is designed to introduce students to the theory and practice of strategic management, using a variety of readings and cases and other pedagogical tools and techniques. **Prerequisites:** MBA advisor approval. **F**

Marketing

MRKTG 3143 PRINCIPLES OF MARKETING

The course provides an overview of the Marketing process structured around the concept of the "Four P's of Marketing." The course is intended as a foundation course for those who will pursue further coursework in the discipline and as a survey course of Marketing's importance to the firm for those who will not. **Prerequisite:** Junior standing. **F, S, SU**

MRKTG 3243 PROMOTIONAL STRATEGY

The course provides an in-depth study of the promotional tools available to the firm, individual, or organization including personal selling, sales promotion, advertising, and public relations and publicity. There is particular emphasis on strategic elements of the choices in developing the Promotional Mix. The course may require case studies and oral presentations. **Prerequisite:** MRKTG 3143. **S**

MRKTG 3263 RETAIL MANAGEMENT

This course is designed to help students understand the nature and function of retailing, as well as the strategies used by retailers. To analyze environmental influences on retailing, including consumers, competition, and legal regulations. To understand the management aspect of retailing, including finances, organization, and facilities, and relates principles of retailing to accounting, marketing, and management principles. To explore the selection process of retail markets. To demonstrate knowledge and understanding of the process of managing the retail mix. To become familiar with the five buying functions. **Prerequisite:** MRKTG 3143. **D**

MRKTG 3443 CONSUMER BEHAVIOR

An examination of individual and family behaviors in the marketplace using research methods, principles, and theories found in the social sciences with specific focus on demographics, family life cycle, family dynamics, roles, cultural & ethnic influences and individual and group decision making. **Prerequisite:** MRKTG 3143. **F**

MRKTG 4003 INDEPENDENT STUDY IN MARKETING (TOPIC)

Independent study of selected topics under the supervision of a marketing faculty member. **Prerequisite:** Instructor, Advisor, and Chair's approval. **D**

MRKTG 4013 SEMINAR IN MARKETING (TOPIC)

Group study of specified topics in marketing. **Prerequisite:** Instructor and Advisor approval. **D**

MRKTG 4133 SPORTS MARKETING

An in-depth study of the application of marketing principles and concepts in the sports industry. Includes sponsorships, branding, promotions, public relations, licensing, and sports consumer research and behavior from the perspective of both participants and spectators. **Prerequisite:** MRKTG 3143. **D**

MRKTG 4143 MARKETING MANAGEMENT

The course is intended as a capstone course for Marketing majors. It examines strategic alternatives available for an overall Marketing Plan. **Students are encouraged to have as many marketing courses as possible before taking this course.** The course may use case studies to illustrate and analyze real marketing decisions and

may require preparation of a Marketing Plan. **Prerequisites:** **MRKTG 3143 and Senior Standing. D**

MRKTG 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 Chair's office. **Prerequisites:** **Major in Department of Management and Marketing, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Advisor, and Chair. D**

MRKTG 4443 CHANNELS OF DISTRIBUTION

The focus of this course is on supply chain management from the perspectives of suppliers, intermediaries, and ultimate organizational users of goods, ideas, and services. The importance and impact of relationship marketing is examined and analyzed. Case studies and oral presentations are utilized. **Prerequisite:** **MRKTG 3143. D**

MRKTG 4543 INDUSTRIAL MARKETING

The course examines the terminology, principles, practices, and processes involved in marketing goods and services to businesses, governmental agencies, and institutions. Extensive case studies, group work, and oral presentations may be involved. **Prerequisite:** **MRKTG 3143. D**

MRKTG 4643 INTERNATIONAL MARKETING

The course expands the scope of marketing principles from a domestic market to the considerably broader and increasingly important and competitive international arena. The course emphasizes such major topics as cultural differences, legal and monetary considerations, and adaptations to the domestic marketing mix. **Prerequisite:** **MRKTG 3143. D**

MRKTG 5003 INDEPENDENT STUDY IN MARKETING (TOPIC)

Independent study of specified topics in marketing for graduate students. **Prerequisite:** **Instructor, MBA advisor, and Chair'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 Chair's office. **Prerequisite:** **Approval by the supervising faculty, MBA advisor, and Chair. 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 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 3156 FUNDAMENTALS OF NURSING

Emphasis is on the acquisition and use of assessment and technical tools for the delivery of health care. **Prerequisites:** Admission to Nursing Major and NURS 2212. **Corequisites:** NURS 3166, NURS 3176, NURS 3183, NURS 3183L, and NURS 3186.

NURS 3176 ADULT HEALTH

The student will explore the holistic health needs of adult clients. Emphasis is on application and analysis of competency necessary to restore health of the acutely ill client. **Prerequisites:** Admission to Nursing Major and NURS 2212. **Corequisites:** NURS 3156, NURS 3176, NURS 3183, NURS 3183L, and NURS 3186.

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. **Prerequisites:** Admission to the major & NURS 2212. **Corequisites:** NURS 3154, NURS 3164, NURS 3164L, NURS 3174, & NURS 3183L.

NURS 3256 CHILD HEALTH NURSING

Emphasis on nursing care of the child from infant through adolescence. **Corequisite:** NURS 3256L.

NURS 3266 PSYCHOSOCIAL NURSING

Emphasizes the psychodynamics of health and use of the therapeutic process in the prevention, promotion, restoration, and/or maintenance of mental health among individuals, families and groups. **Corequisite:** NURS 3266L

NURS 3273 NURSING RESEARCH I

Emphasis is on skill competency in the use of the research process in nursing practice.

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 4156 WOMEN'S HEALTH

Emphasis is on understanding and caring for women's health care needs including health promotion and health restoration throughout the life span.

NURS 4162 CHALLENGES FOR NURSES IN TODAY'S HEALTHCARE SYSTEM

Current issues in healthcare that impact nursing practice with an emphasis on patient safety.

NURS 4261 NURSING RESEARCH II

Emphasis is on skill competency in the use of critiquing and using nursing research.

NURS 4266 CRITICAL CARE NURSING

Emphasis on care of the adult and pediatric patient in the critical care setting.

NURS 4276 COMMUNITY NURSING

The student will explore and use information gained from previous courses. The emphasis is on application and analysis of the theories and skills as needed to promote the maintenance of health and the prevention of illness in the community at large, families and individuals.

NURS 4286 NURSING LEADERSHIP

An exploration of leadership and management concepts and their impact on nursing practice and the delivery of health care. Leadership and management competencies will be implemented in a variety of practice settings.

NURS 4438 NURSING ELECTIVE

The exploration of selected professional, political, social, legal and/or ethical theory as related to nursing practice in a specified practice setting.

RN to BSN Courses

These courses are specifically designed for the licensed RN returning to school for a baccalaureate degree.

NURS 4502 STATISTICS FOR NURSING RESEARCH

Conceptual overview of statistics, providing information relating to measurement, descriptive, and inferential statistics. Two hours theory. **Corequisites:** NURS 4522.

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. Two hours theory. **Prerequisites:** Admission to the RN to BSN Program.

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. **Corequisites:** NURS 4515L.

NURS 4522 NURSING RESEARCH I

Emphasis is on competency in use of the research process in nursing practice. Two hours theory. **Corequisite:** 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. **Corequisites:** NURS 4523L.

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. **Corequisites: NURS 4525L.**

NURS 4532 NURSING RESEARCH II

Continued emphasis is on competency in use of the research process in nursing practice. Two hours theory. **Prerequisites: NURS 4502 & 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. **Corequisites: NURS 4535L.**

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.

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. **Must be in last semester of RN to BSN course work.**