This 2007-08 Shepherd University Catalog Supplement is for information purposes only and is not considered a binding contract between Shepherd University and students. Changes may apply to both present and prospective students. Although University officials are available to advise students, it is the student’s responsibility to comply with University policies, including the requirements for degrees.
ACADEMIC YEAR CALENDAR
First Semester Fall 2008

8/14/08 Thu  New Freshmen/Transfer Orientation; Faculty Report for Fall Semester; Faculty Meetings
8/15/08 Fri  Orientation, Academic Advisement; Registration/Payment for New Freshmen, Transfers and Readmits
8/15/08 Fri  Add/Drop and Late Registration (Late Fee Applies) via RAIL begins at 8 p.m. (All hours except 4 a.m.-8 a.m.)
8/15/08 Fri  New Student Convocation
8/18/08 Mon  Classes Begin
8/18/08 Mon  Add/Drop and Late Registration (Late Fee Applies), via RAIL or at Ikenberry Hall, 9 a.m.-4 p.m. — Consult Advisor
8/22/08 Fri  Last Day to Add/Drop or Late Register via RAIL or at Ikenberry Hall, 9 a.m.-4 p.m. — Consult Advisor
8/29/08 Fri  Last Day to Change a Course from Credit to Pass/Fail Status
9/1/08 Mon  Labor Day — Holiday
9/5/08 Fri  Last Day to Change a Course from Credit to Audit Status
9/26/08 Fri  Last Day to Withdraw from First 8-weeks Class — See Advisor by Noon
10/3/08 Fri  Last Day to Apply for May 2009 Graduation (Registrar’s Office)
10/6/08 Mon  First Day of Mid-term Exams
10/10/08 Fri  Last Day of Mid-Term Exams
10/13/08 Mon  Mid-term Grades Due — 9 a.m. (paper)/12 Noon (Web); Second 8-weeks Classes Begin
10/16/08 Wed  Mid-term grades available on RAIL (tentative)
10/29/08 Wed  First Day of Academic Advisement for Continuing Students for Spring 2009
11/7/08 Fri  Last Day to Withdraw from a Full Semester Class — See Advisor by Noon
11/10/08 Mon  First Day of Spring 2009 RAIL Registration for Continuing Students; 9 a.m.-4 p.m.
11/12/08 Wed  Last Day of Academic Advisement for Continuing Students for Spring 2009
11/21/08 Fri  Last Day to Withdraw from second 8-weeks Class — See Advisor by Noon
11/23/08 Sun  First Day of Thanksgiving Recess
11/30/08 Sun  Last Day of Thanksgiving Recess
12/5/08 Fri  Last Day of Classes; Last Day for Complete Withdrawal from Semester
12/8/08 Mon  First Day of Final Exams
12/12/08 Fri  Last Day of Final Exams
12/15/08 Mon  First Semester Grades Due 9 a.m. (paper)/12 Noon (Web) — End of First Semester
12/16/08 Tue  Grades will be available via RAIL — Tentative

Please check www.shepherd.edu/register/schedules.html for calendar updates or changes.
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/9/09</td>
<td>Fri</td>
<td>Faculty Report; Orientation, Academic Advisement, Registration/Payment for New Freshmen, Transfers, and Readmits</td>
</tr>
<tr>
<td>1/12/09</td>
<td>Mon</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>1/12/09</td>
<td>Mon</td>
<td>Add/Drop and Late Registration (Late Fee Applies), via RAIL or at Ikenberry Hall, 9 a.m.-4 p.m. — Consult Advisor</td>
</tr>
<tr>
<td>1/16/09</td>
<td>Fri</td>
<td>Last Day to Add/Drop or Late Register via RAIL or at Ikenberry Hall, 9 a.m.-4 p.m. — Consult Advisor</td>
</tr>
<tr>
<td>1/19/09</td>
<td>Mon</td>
<td>Martin Luther King, Jr. Day – No Classes</td>
</tr>
<tr>
<td>1/23/09</td>
<td>Fri</td>
<td>Last Day to Change a Course from Credit to Pass/Fail Status</td>
</tr>
<tr>
<td>1/30/09</td>
<td>Fri</td>
<td>Last Day to Change a Course from Credit to Audit Status</td>
</tr>
<tr>
<td>2/20/09</td>
<td>Fri</td>
<td>Last Day to Withdraw from First 8-weeks Class — See Advisor by Noon</td>
</tr>
<tr>
<td>3/2/09</td>
<td>Mon</td>
<td>First Day of Mid-term Exams</td>
</tr>
<tr>
<td>3/6/09</td>
<td>Fri</td>
<td>Last Day of Mid-term Exams; Last Day to Apply for August and December 2009 Graduation (Registrar’s Office)</td>
</tr>
<tr>
<td>3/9/09</td>
<td>Mon</td>
<td>Mid-term Grades Due — 9 a.m. (paper)/12 Noon (Web); Second 8-weeks Classes Begin</td>
</tr>
<tr>
<td>3/11/09</td>
<td>Wed</td>
<td>Mid-term Grades Available on RAIL</td>
</tr>
<tr>
<td>3/15/09</td>
<td>Sun</td>
<td>First Day of Spring Recess</td>
</tr>
<tr>
<td>3/22/09</td>
<td>Sun</td>
<td>Last Day of Spring Recess</td>
</tr>
<tr>
<td>3/30/09</td>
<td>Mon</td>
<td>First Day of Summer 2009 RAIL Registration for Continuing Students, 9 a.m.-4 p.m.</td>
</tr>
<tr>
<td>4/1/09</td>
<td>Wed</td>
<td>First Day of Academic Advisement for Continuing Students for Fall 2009</td>
</tr>
<tr>
<td>4/10/09</td>
<td>Fri</td>
<td>Last Day to Withdraw from a Full Semester Class — See Advisor by Noon</td>
</tr>
<tr>
<td>4/13/09</td>
<td>Mon</td>
<td>First Day of Fall 2009 RAIL Registration for Continuing Students, 9 a.m.-4 p.m.</td>
</tr>
<tr>
<td>4/15/09</td>
<td>Wed</td>
<td>Last Day of Academic Advisement for Continuing Students for Fall 2009</td>
</tr>
<tr>
<td>4/22/09</td>
<td>Wed</td>
<td>Last Day to Withdraw from Second 8-weeks Class — See Advisor by Noon</td>
</tr>
<tr>
<td>4/23/09</td>
<td>Thu</td>
<td>First Day of Spring Weekend Recess (If no snow days used)</td>
</tr>
<tr>
<td>4/24/09</td>
<td>Fri</td>
<td>Second Day of Spring Weekend Recess (If no snow days used)</td>
</tr>
<tr>
<td>4/29/09</td>
<td>Wed</td>
<td>McMurran Scholars Convocation</td>
</tr>
<tr>
<td>5/1/09</td>
<td>Fri</td>
<td>Last Day of Classes; Last Day for Complete Withdrawal from Semester</td>
</tr>
<tr>
<td>5/4/09</td>
<td>Mon</td>
<td>First Day of Final Exams</td>
</tr>
<tr>
<td>5/8/09</td>
<td>Fri</td>
<td>Last Day of Final Exams</td>
</tr>
<tr>
<td>5/11/09</td>
<td>Mon</td>
<td>Second Semester Grades Due 9 a.m. (paper)/12 Noon (Web) — End of Second Semester</td>
</tr>
<tr>
<td>5/12/09</td>
<td>Tue</td>
<td>Grades will be available via RAIL — Tentative</td>
</tr>
<tr>
<td>5/16/09</td>
<td>Sat</td>
<td>Commencement</td>
</tr>
<tr>
<td>5/25/09</td>
<td>Mon</td>
<td>Memorial Day</td>
</tr>
</tbody>
</table>

Please check [www.shepherd.edu/register/schedules.html](http://www.shepherd.edu/register/schedules.html) for calendar updates or changes.
ADMISSION REQUIREMENTS

General Freshman Admission
A student applying for general freshman admission may submit an application any time after the completion of six semesters of high school.

Applicants must submit the following documentation for consideration by the Admissions staff:

- Completed Undergraduate Application for admission;
- $45 application fee;
- Official secondary school records documenting completion of the minimum high school academic unit requirements;
- Results of the American College Test (ACT) or the Scholastic Aptitude Test (SAT). The writing portion is strongly recommended.

The admissions and academic personnel of Shepherd University may require enrollment in stretch-model classes and/or other appropriate measures for a student whose high school record and/or standardized test scores indicate a deficiency in certain areas.

Required Units (Years)

- 4 English (including courses in grammar, composition, and literature)
- 3 Social studies (including U.S. history)
- 4 Mathematics (three units must be Algebra I and higher)
- 3 Science (all courses to be college preparatory laboratory science, preferably including units from biology, chemistry, and physics)
- 1 Arts
- 2 Foreign language (two units of the same foreign language)

Elective Units
It is recommended that the remaining elective units be chosen from the academic core (English/language arts, mathematics, science, social studies) or subjects such as computer science, fine arts, humanities, and keyboarding.

Required Grade Averages and Test Scores

- Minimum 2.0 academic grade point average (on a 4-point scale).
- Minimum composite ACT score of 19 and/or SAT score of 910.

If the applicant obtains a 3.0 academic core GPA, a minimum composite ACT score of 17 and/or 820 SAT score is acceptable.

*Applicants who have been graduated from high school more than five years at the time of application for admissions do not need ACT or SAT scores unless requested by Admissions or Academic personnel. Students admitted without ACT or SAT scores are normally required to take a placement examination prior to course registration.

General Transfer Admission
Applicants who have earned 26 college-level credits or 43 college-level quarter hours from another accredited college or university, have a minimum 2.0 grade point average (on a 4.0 point scale), and are in good standing at the institution last attended may apply as transfer students. They must submit the following documentation for consideration by the Admissions staff:

- Completed Undergraduate Application for admission;
- $45 application fee;
- Official transcripts from each college/university previously attended*;
- Student Personnel Record Form if requested;
- Students who have earned fewer than 26 college-level credits or 43 college-level quarter hours of course work at another institution must submit copies of their high school transcript and ACT or SAT scores in addition to the required university transcripts.
Dual Admission Program
Shepherd University has collaborated with Frederick Community College (FCC) and Hagerstown Community College (HCC) to offer students the Bachelor’s Degree Dual Admission Program which guarantees admission to Shepherd upon meeting the eligibility requirements. This program affords students all the educational opportunities provided by both institutions.

Students applying for the Dual Admission Program must meet the following criteria in order to be considered for the program:

- Complete the Dual Admission application form, which can be completed as early as their first semester at FCC or HCC.
- Complete 30 college-level courses at FCC or HCC and transfer directly from FCC or HCC to Shepherd.
- Achieve a minimum cumulative GPA of 2.80 from FCC or HCC.

To be eligible for the program, a student must be a non-resident of West Virginia.

Academic Common Market Options for Out-of-State Students
A student must apply to his/her home state to be certified as eligible to be considered for Academic Common Market (ACM) status to be eligible to pay West Virginia in-state tuition rates.

Application forms are obtained directly from the home state’s ACM coordinators: www.sreb.org/programs/acm/acmindex.asp.

Applications generally require a letter from Shepherd University certifying that the student is admitted to or is pursuing the appropriate ACM program (specific major and concentration). New students can request this letter from the Office of Admissions; current students can request it from the Office of the Registrar.

<table>
<thead>
<tr>
<th>Home State of Student</th>
<th>Shepherd Program Eligible for ACM Status (subject to change)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delaware</td>
<td>Secondary Education (Family and Consumer Science)</td>
</tr>
<tr>
<td>Maryland</td>
<td>Art (Photography/Computer Imagery)</td>
</tr>
<tr>
<td></td>
<td>Recreation and Leisure Services (Sports Communication)</td>
</tr>
<tr>
<td></td>
<td>Environmental Studies (Aquatic Science)</td>
</tr>
<tr>
<td>South Carolina</td>
<td>Recreation and Leisure Services (Sports Communication)</td>
</tr>
<tr>
<td>Virginia</td>
<td>Art (Photography/Computer Imagery)</td>
</tr>
</tbody>
</table>

STUDENT LIFE

Counseling Center
The counseling center is located on the ground floor of Gardiner Hall and accessed through the health center. The counseling center is staffed by full-time licensed professionals and is open from 8 a.m.-4:30 p.m., Monday through Friday. Appointments can be scheduled by calling the Health Center at 304/876-5161. Please visit our Web site for additional information about our staff and services. If you want to take the online screenings, the keyword is Rambler.

Free confidential counseling for individuals and groups is available on campus to all students. Referrals to outside agencies for more extensive or comprehensive services are also available; however, Shepherd University will not assume the cost for these outside services.

Intramurals
The Shepherd University Intramurals program strives to enhance the mind, body, and spirit of all students by providing intramurals activities that are responsive to the physical, social, recreational, and lifelong education needs of the campus community as they relate to health, fitness, and learning. To sign up for team sports, pick up an entry form at the intramural bulletin board located outside the gym doors in the Butcher Center. To sign up for individual sports, stop by the Intramural Office, Butcher Center 220 in the arena suites. For more information, call 304/876-5076 or visit our Web site www.shepherd.edu/intramurals/.
Student Code of Conduct

The staff at Shepherd University assumes that students enroll with a sincere desire to become better educated individuals and to prepare themselves for useful, productive lives. The intent of the University is to facilitate student development in habits of study, application, self-control, integrity, honesty, and ethical standards by which to live and work. The University affirms that students have certain rights and responsibilities for contributing to their own personal growth and awareness within the framework of the campus community. The University reserves the right to take appropriate action, including separation from the University, for violations of accepted standards. All students are expected to be familiar with and are governed by the policies of this university, in particular the Student Code of Conduct, found in the Student Handbook, which includes a section on residence life policies. Handbooks are available in the Office of Student Affairs in the Student Center.

EXPENSES AND FINANCIAL ASSISTANCE

Enrollment Fees Per Semester 2008-2009

West Virginia Students Enrolled in a 4-year Program

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Enrollment Fee</th>
<th>Hours Enrolled</th>
<th>Enrollment Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Hours or more (full-time)</td>
<td>2,449.00</td>
<td>6 Hours</td>
<td>1,200.00</td>
</tr>
<tr>
<td>11 Hours</td>
<td>2,200.00</td>
<td>5 Hours</td>
<td>1,000.00</td>
</tr>
<tr>
<td>10 Hours</td>
<td>2,000.00</td>
<td>4 Hours</td>
<td>800.00</td>
</tr>
<tr>
<td>9 Hours</td>
<td>1,800.00</td>
<td>3 Hours</td>
<td>600.00</td>
</tr>
<tr>
<td>8 Hours</td>
<td>1,600.00</td>
<td>2 Hours</td>
<td>400.00</td>
</tr>
<tr>
<td>7 Hours</td>
<td>1,400.00</td>
<td>1 Hour</td>
<td>200.00</td>
</tr>
</tbody>
</table>

Out-of-State Students Enrolled in a 4-year Program

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Enrollment Fee</th>
<th>Hours Enrolled</th>
<th>Enrollment Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Hours or more (full-time)</td>
<td>6,406.00</td>
<td>6 Hours</td>
<td>3,180.00</td>
</tr>
<tr>
<td>11 Hours</td>
<td>5,830.00</td>
<td>5 Hours</td>
<td>2,650.00</td>
</tr>
<tr>
<td>10 Hours</td>
<td>5,300.00</td>
<td>4 Hours</td>
<td>2,120.00</td>
</tr>
<tr>
<td>9 Hours</td>
<td>4,770.00</td>
<td>3 Hours</td>
<td>1,590.00</td>
</tr>
<tr>
<td>8 Hours</td>
<td>4,240.00</td>
<td>2 Hours</td>
<td>1,060.00</td>
</tr>
<tr>
<td>7 Hours</td>
<td>3,710.00</td>
<td>1 Hour</td>
<td>530.00</td>
</tr>
</tbody>
</table>

Rates are subject to change and approval of the West Virginia Higher Education Policy Commission.

Explanation as to Use of Enrollment Fees

West Virginia Students (Full-Time Rate) | Out-of-State Students (Full-Time Rate)

Capital Fees: Restricted for statewide capital improvement purposes by West Virginia Statute. $493.00 | $968.00

Intercollegiate Athletic Fee: Restricted to defray expenses associated with the University's intercollegiate athletic program. 169.00 | 169.00

Intercollegiate Athletic Equity Fee: Restricted to defray expenses associated with the Institution's compliance with Title IX. 50.00 | 50.00

Student Activity Fee: Restricted to defray 36.00 | 36.00
expenses associated with the University’s student activity programs with recommendations from the Student Government Association.

Technology Fee: Restricted to defray expenses for the development of University technology. 66.00 66.00

Co-Curricular Fee: Utilized to defray expenses associated with organized educational activities related to instructional programs. 39.00 39.00

Recreation Fee: Provide comprehensive recreation program for general student body. 11.00 11.00

Wellness Center Fee: Provide general operating revenues for the Wellness Center 59.00 59.00

Student Union Fee: Restricted to defray building and other expenses associated with the Shepherd Student Center. 97.00 97.00

University Operation Fee: Unrestricted for general operating purposes. 1,403.00 4,885.00

Medical Fee: Restricted to defray expenses associated with the University’s Health Center 26.00 26.00

TOTAL $2,449.00 $6,406.00

Special Fees
Admissions Application Fee (undergraduate) ................................................................. $45
Recreation Major Program Fee ....................................................................................... 30
Physical Education Major Program Fee ......................................................................... 15

Room and Board Rates Regular Session 2008-09 (per semester)
Gardiner, Kenamond, Turner, Shaw, and Thacher Halls (room) $1,870.00
Burkhard, Moler, Yost, Lurry, Martin, Miller, and Boteler Halls (room) $2,153.00
Birch and Maple Apartments $2,704.00
Birch and Maple Rooms 200-300 $2,975.00
Board $1,599.00
Room Damage Deposit (Refundable) $100.00

Educational Costs Payable at Registration (per semester, 4-year degree)

<table>
<thead>
<tr>
<th></th>
<th>West Virginia Students</th>
<th>Out-of-State Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$2,449.00</td>
<td>$6,406.00</td>
</tr>
<tr>
<td>Room and Board*</td>
<td>$3,752.00</td>
<td>$3,752.00</td>
</tr>
<tr>
<td>Total</td>
<td>$6,201.00</td>
<td>$10,158.00</td>
</tr>
</tbody>
</table>

Study Abroad
Students interested in Study Abroad must be approved by the Study Abroad Office at Shepherd University. See the section Study Abroad for details. Most financial aid programs can apply toward study abroad expenses; however, it may depend on the agency or institution through which you plan to study. For example, a Promise Scholarship or West Virginia Higher Education Grant can only be used if studying through a program in which tuition and fees are assessed by a West Virginia institution. Students must complete the Consortium Agreement process outlined above. If
anticipated expenses are more than the cost of attendance at Shepherd, students must also submit a budget along with supporting documentation.

Disbursement dates for the release of financial aid are determined in accordance with federal regulations and the Shepherd academic year; therefore, special disbursement dates cannot be arranged. Students can complete a form in the Cashier’s Office to allow authorization for a third party to pick up their check or request it be mailed.

Financial Aid Refund and Repayment Policy

Failing to Earn a Grade in Any Class: If a student who began attendance does not officially withdraw and fails to earn a grade in at least one course, he/she is considered to have unofficially withdrawn for financial aid purposes. A recalculation of federal Title IV financial aid eligibility is required. The recalculation will be based on 50 percent of the period unless documentation supports a last date of attendance to the contrary. Generally, the student will owe a return of funds. A grade of F is considered earned failure. An IF is considered failure due to irregular withdrawal. See the section Grading System for details on grades.

ACADEMIC INFORMATION

Shepherd University Cancellation Policy

Generally, Shepherd University does not cancel operations because of inclement weather. Unlike the K-12 schools, the University has different operational issues and its student are not minor children thus, if severe weather conditions render it dangerous for students to reach the University, those who fail to travel to campus on that particular day will not be put at a serious disadvantage. Individual students who have encountered severe travel conditions should notify their instructors of their absence prior to the next class meeting and should request appropriate arrangements for the makeup of course work.

Employees encountering severe travel conditions should notify their supervisors of their absence and discuss work conditions, leave time, and special needs.

All employees designated as emergency personnel (via a memo from their supervisors) will be required to report at their regular work times regardless of weather conditions, unless otherwise directed by their unit supervisors.

Should an extreme weather emergency or power or water failure warrant the closing of offices and/or canceling or altering the schedule of classes by the President, then public notification will be made via Shepherd Web, switchboard, Rave text-messaging system, and area media. Radio and television stations carrying emergency announcements include: WEMP (1340 AM), WKMZ (95.9 FM), WLTZ (97.5 FM), WRNR (740 AM), Martinsburg; WMRE (1550 AM), Charles Town; WUSQ (102.5 FM), WFQX (99.3 FM), WKSJ (98.3 FM), WINC (92.5 FM), Winchester; DHC (1010 AM, 93.5 FM), Berkeley Springs; WJEJ (1240 AM), WWMD (104.7 FM), WHAG-TV Ch. 25, Hagerstown; West Virginia Public Radio; and WUSA-TV Ch. 9, Washington, D.C.

Announcements of emergency plans will also be available by calling 304/876-5000 or on the Web at www.shepherd.edu or by signing up for the Rave text messaging notification system at www.shepherd.edu/university/rave/.

Announcements of emergency plans will be communicated as early as possible (presumably 6 a.m.) when the emergency condition precedes the start of the work and/or instructional day. When the emergency condition arises during the day, the announcement will be communicated through the heads of those units which may be affected. Announcements concerning evening classes will be communicated by 4:30 p.m.

Please note: Shepherd announces delays and closings only—if Shepherd is not mentioned on designated radio/TV stations as a delay or cancellation, the University is open and operating on its regular schedule.
Study Abroad
Shepherd offers a wide variety of study abroad opportunities: short-term study abroad courses (up to three weeks) led by Shepherd faculty, West Virginia University’s exchange programs for a semester or a year, or programs offered by affiliate study abroad providers for summer, semester, and year abroad programs. For non-Shepherd study abroad programs, students must have earned 30 credits (15 of them at Shepherd) and have a 2.5 grade point average.

The Study Abroad Office (www.shepherd.edu/university/studyabroad/) advises students about study abroad, coordinates non-Shepherd study abroad opportunities, and works with the Registrar’s Office and Financial Aid to facilitate the required forms for prior transfer credit approval and financial aid arrangements. Students should contact this office as early as possible to begin planning for their study abroad experience.

Cooperative Education or Co-op
Cooperative education offers the student the opportunity to integrate classroom learning and practical work experience with the added advantage of ongoing support and guidance from the Cooperative Education Office in the Student Affairs Office.

Application Procedure: Students must first complete a Co-op Application which is located at www.shepherd.edu/safweb/coop/coform.htm. This form also can be picked up in the Co-op Office which is located in the Student Affairs Office on the first floor of the Student Center. The Cooperative Education Office will assist students in finding assignments. All assignments must be approved by the academic department sponsoring the placement before the beginning of work. A learning agreement is signed by the department, employer, and student. Co-op students will be evaluated by an assigned faculty coordinator and the employer supervisor. A record of an approved co-op experience will be entered on the student’s transcript.

PROGRAMS OF STUDY

Curriculum for a Comprehensive Major in Art (Contemporary)
Photography/computer digital imagery concentration ................................................................. 42
Required courses ........................................................................................................................ 33
PHOT 281  Black and White Photography I .......................................................... 3
PHOT 282  Black and White Photography II ..................................................... 3
PHOT 380  History of Photography ............................................................ 3
PHOT 381  Studio Photography ................................................................. 3
PHOT 383  Color Light in Photography ...................................................... 3
PHOT 385  Computer Digital Imagery ...................................................... 3
PHOT 387  Introduction to Web Art .......................................................... 3
ART 403  Art Criticism ........................................................................ 3
PHOT 480  Research in Photography I ............................................................ 3
PHOT 482  Photography and Advertising ................................................ 3
PHOT 487  Extended Image ..................................................................... 3
Select 9 hours from the following ......................................................................................... 9
PHOT 388  Multi-Media for the Web .......................................................... 3
PHOT 400  Special Topics in Photography/Computer Imagery ........... 3
PHOT 420  Time-Based Media .................................................................. 3
PHOT 483  Alternative Processes ............................................................... 3
PHOT 486  Advanced Photography ............................................................ 3-6
PHOT 488  Internship in Photography ....................................................... 3-6
PHOT 489  Research in Photography II ...................................................... 3
Curriculum for a Teaching Field in Art, PreK-Adult

The art education program adheres to a contemporary pedagogy that hones future teachers to be artists, scholars, and advocates of/for the arts. A student who wishes to earn a Bachelor of Arts degree in art education must take the following courses: general studies (48 credits), educational professional studies courses (34), fine arts core and concentration (45), and art education (7).

Total semester hours required ................................................................. 134
Fine arts core and concentration .......................................................... 45
ART 115  Drawing I ................................................................. 3
ART 215  Drawing II ................................................................. 3
ART 140  Visual Thinking Skills I .................................................... 3
ART 170  Visual Thinking Skills II ..................................................... 3
ART 203  Survey History of Western Art ........................................... 3
ART 250  Contemporary Art ............................................................ 3
ART 230  Painting I ................................................................. 3
ART 203  Sculpture I ................................................................. 3
ART 361  Printmaking II ............................................................... 3
ART 403  Art Criticism and Aesthetics .............................................. 3
GRDS 200  Graphic Design I ........................................................... 3
PHOT 281  Black and White Photography I ....................................... 3

Studio concentration in one area ....................................................... 9

Methods and theory of teaching art requirements ........................................ 7
ARED 180  Inclusive Approaches to Art Education ................................. 3
ARED 345  Curriculum and Instruction in Art Education ........................... 4

See professional education course listings under Education: Professional Studies Core for Secondary Education (34 hours required). Special Methods of Teaching Art is EDUC 427.

Please Note: Art education students are required to take ART 104, not ART 103.

Curriculum for a Major in Biology

Specific general studies requirements
CHEM 207, 207L  General Chemistry and Lab ..................................... 4
CHEM 209, 209L  General Chemistry and Lab ..................................... 4
MATH 205  Calculus with Applications OR MATH 314  Statistics .... 3-4

NOTE: The prerequisite for MATH 205 is competence equivalent to successful completion of MATH 108 and the prerequisite for MATH 314 is competence equivalent to successful completion of MATH 108 or 154.

Total hours required ................................................................................. 46-49
Required biology courses ........................................................................ 30-33
BIOL 208  Plants as Organisms .............................................................. 4
BIOL 209  Animals as Organisms .......................................................... 4
BIOL 305  Cell Biology ................................................................. 4
BIOL 394  Principles of Biological Research ......................................... 3
BIOL 344  Genetics ................................................................. 4
BIOL 406  Developmental Biology ......................................................... 4
BIOL 420  General Ecology ............................................................... 4
BIOL 415  Biological Research OR BIOL 425  Internship in Biology ...... 3-6

Elective biology courses ........................................................................... 8
Any courses numbered BIOL 300 and above except BIOL 350

Required related courses ........................................................................ 8
PHYS 201, 201L  College Physics and Lab AND
PHYS 202, 202L  College Physics and Lab OR .................................................. 8
PHYS 221, 221L  General Physics and Lab AND
PHYS 222, 222L  General Physics and Lab .................................................. 8

Curriculum for a Biology Teaching Field Grades 9-Adult
See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required).

Curriculum for a Teaching Field in Chemistry Education Grades 9-Adult
See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required).

Curriculum for a Comprehensive Major in Computer and Information Sciences
Total hours required (including free electives) ........................................................................ 128
Specific general studies requirements
MATH 155  Discrete Structures ................................................................. 3
Math requirements for all concentrations ........................................................................ 10
MATH 254  Discrete Mathematics ......................................................... 3
MATH 205*  Calculus With Applications .............................................. 4
MATH 314  Statistics ........................................................................ 3
*CS and CGG concentrations must take MATH 207 instead of MATH 205
Core requirements* ........................................................................................................ 33
MATH 100  Freshman Seminar ............................................................. 1
CIS 102  Computer Literacy and Microcomputer Applications ............. 3
CIS 104  Introduction to Computer and Information Sciences ............ 3
CIS 211  Computer Language Concepts ............................................. 4
CIS 234  Introduction to Networking .................................................. 3
CIS 314  Advanced Computer Language Concepts ................................ 4
CIS 321  Data and File Structures ....................................................... 4
CIS 386  Computer Organization ........................................................ 4
CIS 388  Database Management Systems ........................................... 4
CIS 390  Operating Systems ............................................................... 3
* Must have a C average in core requirements

Computer graphics and games (CGG) concentration ......................................................... 41
Required mathematics courses ........................................................................................ 17
MATH 207  Calculus I ................................................................. 4
MATH 208  Calculus II ................................................................. 4
MATH 254  Discrete Mathematics ..................................................... 3
MATH 307  Introduction to Linear Algebra ......................................... 3
MATH 321  Probability and Statistics OR
MATH 314  Statistics ................................................................. 3
Required CIS courses ...................................................................................... 15
CIS 302  Windows Programming ....................................................... 3
CIS 324  Introduction to Artificial Intelligence .................................... 3
CIS 405  Computer Graphics ........................................................... 3
CIS 431  Algorithms and Data Structures ......................................... 3
CIS 450  Game Design and Programming ........................................... 3
Required electives ......................................................................................... 9
Any CIS course numbered 300 or above.
Network and security (NS) concentration ................................................................. 35
Required CIS courses .................................................................................................... 23
CIS 287 Systems Analysis and Design ................................................................. 3
CIS 395 Cryptography and Computer Security .................................................. 3
ENGR 305 Logic Design and Lab ........................................................................... 4
CIS 419 Data Communications and Computer Networks .................................. 3
CIS 421 Computer Architecture ............................................................................ 3
CIS 423 Server Operations and Systems Programming ....................................... 3
CIS 486 Network Security ....................................................................................... 4
Required electives ....................................................................................................... 12
Any CIS course numbered 300 or above.

Curriculum for a Noncomprehensive Major in Computer and Information Sciences
This discipline not only expands support systems but also covers other aspects of the business
world. A mix of skills along with technical proficiency is important in real world applications.
This degree will place greater emphasis on the knowledge of business fundamentals. This degree
requires a minor in a related field.
Specific general studies requirement:
MATH 155 Finite Mathematics ................................................................................. 3
Required courses ............................................................................................................ 36
MATH 100 Freshman Seminar .................................................................................. 1
CIS 102 Microcomputer Applications ...................................................................... 3
CIS 104 Introduction to Computer and Information Systems ................................ 3
CIS 211 Computer Language Concepts ................................................................... 4
CIS 234 Introduction to Networking ......................................................................... 3
CIS 287 Systems Analysis and Design .................................................................... 3
CIS 386 Computer Organization .............................................................................. 4
CIS 388 Database Management Systems .................................................................. 4
CIS 332 Web Programming I .................................................................................... 3
CIS 419 Data Communication and Computer Networks ...................................... 3
MATH 314 Statistics ................................................................................................. 3

Computer and Information Technology Concentration
Complete one area of emphasis:
Biometrics and information security emphasis ....................................................... 20
CIS 372 Introduction to Biometrics ......................................................................... 4
CIS 310 Information Security .................................................................................. 3
CIS 418 Management Information Systems .......................................................... 3
CIS 486 Network Security ....................................................................................... 4
Electives ......................................................................................................................... 9
Any CIS course numbered 300 or above or MATH 254.

Information technology emphasis .............................................................................. 21
BADM 310 Principles of Management ................................................................... 3
CIS 310 Information Security .................................................................................. 3
CIS 361 E-Commerce ............................................................................................... 3
BADM 345 Business Communications .................................................................... 3
CIS 418 Management Information Systems .......................................................... 3
Electives ......................................................................................................................... 9
Any CIS course numbered 300 or above or MATH 254.
Web programming and design emphasis................................................................. 22
CIS 334 Web Programming II................................................................. 3
GRDS 200 Graphic Design I................................................................. 3
GRDS 300 Typography I................................................................. 3
GRDS 320 Digital Studio I................................................................. 3
CIS 450 Web Design Studio................................................................. 4
Electives .................................................................................................................. 9
Any CIS course numbered 300 or above or MATH 254.

Curriculum for a Comprehensive Major in Computer Engineering

Total hours required (including technical electives) ................................................................. 128
General studies requirements.................................................................................. 30
Specific general studies requirements........................................................................ 17
ECON 205 Principles of Macroeconomics ................................................................. 3
ENGL 104 Science and Technical Writing ................................................................. 3
MATH 155* Discrete Structures ........................................................................ 3
PHYS 221, 221L General Physics I ......................................................................... 4
PHYS 222, 222L General Physics II ........................................................................ 4
*This is an advanced version of MATH 154 designed for engineering students.

Concentration requirements ................................................................................... 38
MATH 100 Freshman Seminar .............................................................................. 1
CHEM 207, 207L General Chemistry ............................................................... 4
CIS 104 Introduction of Computer and Information Sciences ................................ 3
CIS 211 Computer Language Concepts ......................................................... 4
CIS 234 Introduction to Networking .............................................................. 3
ENGR 326 Linear Systems ................................................................................ 3
CIS 386 Computer Organization ........................................................................ 4
CIS 390 Operating Systems .............................................................................. 3
CIS 421 Computer Architecture ......................................................................... 3
ENGR 490 Engineering Capstone Project ......................................................... 3
CIS 333 Microprocessor System Design and Lab ................................................. 4
CIS 482 Real Time and Embedded System Design ........................................ 3

Math and engineering requirements ...................................................................... 36
MATH 207 Calculus I ...................................................................................... 4
MATH 208 Calculus II ...................................................................................... 4
MATH 310 Differential Equations ......................................................................... 4
MATH 307 Linear Algebra ................................................................................. 3
MATH 321 Probability and Statistics .................................................................... 3
MATH 254 Discrete Mathematics ......................................................................... 3
ENGR 101 Engineering I ................................................................................... 3
ENGR 224, 225 Electrical Circuits and Lab ......................................................... 4
ENGR 221, 222 Introduction to Electrical Engineering ........................................ 4
ENGR 305 Digital Logic Design ........................................................................ 4

Technical electives ................................................................................................. 7
CIS 314 Advanced Computer Language Concepts ............................................... 4
CIS 321 Data and File Structures ........................................................................ 4
CIS 324 Introduction to Artificial Intelligence ..................................................... 3
CIS 431 Algorithms and Data Structures ......................................................... 3
CIS 487 Software Engineering ............................................................................ 3
ENGR 241 Engineering Statics ............................................................................ 3
ENGR 242 Engineering Dynamics ....................................................................... 3
CIS 441 Automata Theory .................................................................................... 3
Curriculum for a Major in Elementary Education

Specific general studies requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSCI 103, 104</td>
<td>General Physical Science I and II</td>
<td>8</td>
</tr>
<tr>
<td>MATH 105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
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</table>

Professional Studies Core for Elementary Education

Hours required: 45

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 150</td>
<td>Seminar in Education</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 200</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 320</td>
<td>Social and Psychological Conditions of Learning</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 360</td>
<td>Survey of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 351</td>
<td>Integrated Reading and Language Arts I</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 352</td>
<td>Integrated Math, Science, and Social Studies I</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 353</td>
<td>Integrated Reading and Language Arts II</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 354</td>
<td>Integrated Math, Science, and Social Studies II</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 380</td>
<td>Technology in 21st Century Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 400</td>
<td>Inclusion in the Regular Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 450</td>
<td>Student Teaching K-6</td>
<td>9</td>
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</table>

Specialty Studies for Elementary Education K–6

Hours required: 37

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 102</td>
<td>Fundamentals of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 226</td>
<td>Classroom Music Education</td>
<td>2</td>
</tr>
<tr>
<td>ARED 325</td>
<td>Aesthetic Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 310</td>
<td>Health and Physical Education for Elementary Educators</td>
<td>4</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of the United States to 1865 OR</td>
<td></td>
</tr>
<tr>
<td>HIST 202</td>
<td>History of the United States, 1865 to Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 309</td>
<td>West Virginia and the Appalachian Region</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Principles of World Geography</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 100</td>
<td>Life Science for Elementary Teachers OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Biological Science OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 102</td>
<td>General Biological Science</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 100L</td>
<td>Chemical Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Math for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 200</td>
<td>Geometry and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Math Methods for Elementary Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: Students are encouraged to select upper-division courses for electives. The variety of options for courses can be discussed with an advisor.

Other Requirements: The Department of Education has the responsibility for both the professional studies and specialty studies components of the elementary education specialization, so the student’s advisor will be from this department. Students should consult the elementary education specialization handbook for the most up-to-date policies, procedures, and requirements for this specialization.

Contact Person: Dr. Doug Kennard, Knutti Hall 101D 304/876-5330, or Department of Education, Knutti Hall 108, 304/876-5305.

Middle School Education

The middle school certification includes 5-9 grade ranges. The required courses in professional studies are listed below. See individual specialization areas for specialty curriculum. Students who want middle school certification must complete two middle school specializations or one middle school specialization AND either the elementary education K-6 specialization or one secondary education specialization.
Professional Studies Core for Middle School Education

Hours required ................................................................. 39-40
EDUC 150  Seminar in Education .............................................. 1
EDUC 200  Foundations of Education ........................................ 3
EDUC 320  Social and Psychological Conditions of Learning .... 5
EDUC 360  Survey of Exceptional Children ................................ 3
EDUC 319  Middle School Curriculum OR ............................... 3
EDUC 370  Creating Learning Environments ............................. 4
EDUC 380  Technology in 21st Century Teaching and Learning .... 3
EDUC 4XX  Special Methods (one for each 5-9 specialization) ..... 6
EDUC 443  Reading in the Content Areas ................................. 3
EDUC 400  Inclusion in the Regular Classroom ........................ 3
EDUC 453  Student Teaching, Grades 5-9 ................................. 9

Contact Person: Dr. Doug Kennard, Knutti Hall 101D, 304/876-5330 or Department of Education, Knutti Hall 106, 304/876-5305.

Professional Studies Core for Secondary Education

Hours required ................................................................. 37-40**
EDUC 150  Seminar in Education .............................................. 1
EDUC 200  Foundations of Education ........................................ 3
EDUC 320  Social and Psychological Conditions of Learning .... 5
EDUC 360  Survey of Exceptional Children OR
ARED 180  Inclusive Approaches to Art Education (art education majors only) OR
PHED 401  Teaching Adaptive Physical Education
(physical education majors only) ............................................ 3
EDUC 370  Creating Learning Environments ............................. 4
EDUC 380  Technology in 21st Century Teaching and Learning .... 3
EDUC 4XX  Special Methods .................................................. 3-6*
EDUC 400  Inclusion in the Regular Classroom ........................ 3
EDUC 443  Reading in the Content Areas ................................. 3
EDUC 45X  Student Teaching ................................................ 9

* Family and consumer sciences education requires 6 hours.
** Art education and physical education will have 34 hours because of the substitution of their special education courses for EDUC 360.
See each specialization for specific course numbers and titles.

Curriculum for a Major in English

Total hours required for an English major ........................................... 31
Required courses ........................................................................ 19
ENGL 301  Introduction to Literary Study .................................... 3
ENGL 310  Survey of British Literature to 1660 .......................... 3
ENGL 311  Survey of British Literature, 1660-1900 .................... 3
ENGL 312  Survey of American Literature to 1900 .................... 3
ENGL 313  Survey of Literature in English from 1900 ............... 3
ENGL 421  Shakespeare .......................................................... 3
ENGL 485  Senior Capstone Practicum ..................................... 1

English literature concentration ................................................. 12
ENGL 415  Chaucer OR
ENGL 423  Milton ............................................................... 3
Upper-division English electives ................................................. 9
Creative writing concentration .................................................................................. 12

ENGL 371 Introduction to Creative Writing ............................................................. 3

Two of the following courses .................................................................................. 6

ENGL 471 Fiction ....................................................................................................... 3
ENGL 472 Poetry ......................................................................................................... 3
ENGL 473 Nonfiction .................................................................................................. 3
ENGL 474 Drama ........................................................................................................ 3

Upper-division English elective ............................................................................... 3

Curriculum for a Minor in English

Total hours required for an English minor .................................................................. 21

Required courses ........................................................................................................ 15
ENGL 301 Introduction to Literary Study ................................................................. 3

Three of the following courses .................................................................................. 9
ENGL 310 British Literature to 1660 ........................................................................ 3
ENGL 311 British Literature, 1660-1900 .................................................................. 3
ENGL 312 American Literature to 1900 .................................................................. 3
ENGL 313 Literature in English since 1900 ............................................................. 3
ENGL 372 Advanced Composition OR
ENGL 377 Peer Tutoring and Composition Theory ................................................. 3

Electives ....................................................................................................................... 6

Two literature courses, numbered 300 or above.

Curriculum for a Teaching Field in English Education 5-Adult

Total hours required for a teaching field .................................................................... 43

See course listings under Education for professional courses.

Required courses ........................................................................................................ 37
ENGL 301 Introduction to Literary Study ................................................................. 3
ENGL 307 Teaching Reading and Adolescent Literature ......................................... 3
ENGL 400 Greek Mythology OR
ENGL 402 The Bible as Literature ............................................................................ 3
ENGL 310 Survey of British Literature I .................................................................. 3
ENGL 311 Survey of British Literature II .................................................................. 3
ENGL 312 American Literature to 1900 ................................................................. 3
ENGL 313 Literature in English since 1900 ............................................................. 3
ENGL 355 American Ethnic Literature ...................................................................... 3
ENGL 360 Literature and the Sexes OR
ENGL 366 Women in the Arts and Literature .......................................................... 3
ENGL 370 Structure and Evolution of English ......................................................... 3
ENGL 377 Peer Tutoring and Composition Theory ................................................. 3
ENGL 421 Shakespeare ............................................................................................. 3
ENGL 486 English Education Capstone Presentation ............................................. 1

Electives (select two of the following) ..................................................................... 6
ENGL 356 Appalachian Culture ............................................................................... 3
ENGL 373 Creative Writing ....................................................................................... 3
ENGL Any other English elective approved by advisor ............................................ 3

See professional education course listings under Education: Professional Studies Course for Secondary Education (37 hours required). Special Methods of Teaching English is EDUC 421.

Contact Person: Dr. Sylvia Shurbutt, Knutti Hall 223, 304/876-5207, sshurbut@shepherd.edu.
## Curriculum for a Teaching Field in English Education 5-9

Total hours required: 24

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 301</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 307</td>
<td>Teaching Reading and Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 310</td>
<td>British Literature to 1660</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 311</td>
<td>British Literature, 1660-1900</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 312</td>
<td>American Literature to 1900 OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 313</td>
<td>Literature in English since 1900</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 355</td>
<td>American Ethnic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 360</td>
<td>Literature and the Sexes OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 366</td>
<td>Women in the Arts and Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 370</td>
<td>Structure and Evolution of English OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 377</td>
<td>Peer Tutoring and Composition Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

See professional education course listings under Education: Professional Studies Core for Middle School Education (39-40 hours required).

Contact Person: Dr. Sylvia Shurbutt, Knutti Hall 223, 304/876-5207, sshurbut@shepherd.edu.

## Environmental Sustainability Concentration (noncomprehensive)

The environmental sustainability concentration provides students with a strong background in environmental studies with an emphasis on sustainability. The program explores ways of meeting humans’ current and future needs for energy, food, and shelter that are scientifically, socially, and economically viable and that do not compromise earth’s resources and ecological systems. Students develop a specific research problem and acquire hands-on training through a required internship. Students also select a minor in a complementary field, enabling them to tailor their degree to future employment or further study of sustainable living solutions at the graduate level.

### Specific general studies requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 205</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GSCI 103, 104</td>
<td>General Physical Science I and II</td>
<td>8</td>
</tr>
<tr>
<td>MATH 314*</td>
<td>Statistics</td>
<td>3</td>
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</tbody>
</table>

*The prerequisite for MATH 314 is MATH 154, MATH 108, or permission of the chair.

Total hours required: 52-53

Required courses: 49

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL 102</td>
<td>General Biological Science</td>
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</tr>
<tr>
<td>CHEM 101, 101L</td>
<td>Chemistry in Society I and Lab AND</td>
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<tr>
<td>CHEM 102, 102L</td>
<td>Chemistry in Society II and Lab OR</td>
<td></td>
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<tr>
<td>CHEM 207, 207L</td>
<td>General Chemistry I and Lab AND</td>
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</tr>
<tr>
<td>CHEM 209, 209L</td>
<td>General Chemistry II and Lab</td>
<td>8</td>
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<tr>
<td>ENVS 201</td>
<td>Dimensions of Environmental Science I</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 202</td>
<td>Dimensions of Environmental Science II</td>
<td>3</td>
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<tr>
<td>ENVS 306</td>
<td>Environmental Policy</td>
<td>4</td>
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<tr>
<td>ENVS 308</td>
<td>Physical Resource Management</td>
<td>3</td>
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<tr>
<td>ENVS 340</td>
<td>Sustainable Agriculture and Lab</td>
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<tr>
<td>ENVS 341</td>
<td>Sustainable Energy and Lab</td>
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<tr>
<td>ENVS 345</td>
<td>Sustainable Development</td>
<td>3</td>
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<tr>
<td>ENVS 433</td>
<td>Stream Ecology OR</td>
<td></td>
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<tr>
<td>ENVS 342</td>
<td>Limnology OR</td>
<td></td>
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<tr>
<td>ENVS 441</td>
<td>Hydrology and Lab</td>
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<td>ENVS 450</td>
<td>Environmental Internship</td>
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<td>ENVS 451</td>
<td>Senior Research Seminar</td>
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Electives: 3-4

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 325</td>
<td>Computers in Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 333, 333L</td>
<td>Environmental Chemistry and Lab</td>
<td>4</td>
</tr>
</tbody>
</table>
Any ENVS course numbered 300 or above ................................................................... 3
Andy GSCI course numbered 300 or above .................................................................. 3
NOTE: Students wishing to take upper-level Chemistry should complete the CHEM 207, 209
sequence.

Portfolio Requirement for Environmental Studies Major: It is required that each major complete
a portfolio prior to graduation. See advisor for specific details.

Curriculum for a Minor in Health and Fitness
This minor is designed to provide students with knowledge of health, fitness, an applied move-
ment.
Total hours required for minor .......................................................................................... 25
HLTH 225 First Aid ........................................................................................................... 4
HLTH 103 Personal Health OR
HLTH 200 Health and Wellness ......................................................................................... 3
HLTH 300 Substance Use and Abuse OR
ATHC 324 Care and Prevention of Athletic Injuries ......................................................... 3
HLTH 468 Principles of Sport Nutrition OR
FACS 318 Nutrition ......................................................................................................... 3
HLTH 390 Exercise Prescription OR
HLTH 391 Worksite Health Promotion ........................................................................... 3
PHED 370 Applied Anatomy and Physiology .................................................................. 4
PHED 380 Perceptual Motor Learning ............................................................................. 3
PHED 405 Applied Kinesiology ....................................................................................... 3

Curriculum for a Teaching Endorsement in Health Education Grades 5-Adult
See Professional Education course listings under Education: Professional Studies Course for Sec-
ondary Education (34 hours required).

Curriculum for a Major in History
Specific general studies requirement:
PSCI 101 American Federal Government ........................................................................ 3
Total hours required for a major .......................................................................................... 36
Required courses ............................................................................................................. 18
HIST 201 and 202 History of the United States ................................................................ 6
HIST 250 Introduction to Historical Studies ..................................................................... 3
HIST 314 Recent United States History OR
HIST 404 Contemporary World since 1929 .................................................................. 3
One 300- or 400-level course in European history from the following .......................... 3
HIST 329 Renaissance and Reformation ........................................................................ 3
HIST 332 Medieval History ............................................................................................. 3
HIST 333 Modern Europe ............................................................................................... 3
HIST 338 European Women to 1500 ............................................................................. 3
HIST 339 European Women since 1500 ......................................................................... 3
HIST 360 Evolution of European Government ............................................................... 3
HIST 375 First World War ............................................................................................... 3
HIST 407 England to 1603 ............................................................................................... 3
HIST 408 England since 1603 .......................................................................................... 3
HIST 410 Russia to 1855 ................................................................................................. 3
HIST 412 Russia since 1855 ............................................................................................. 3
HIST 416 Italian City States ............................................................................................. 3
HIST 440 Ideas in the Modern West ................................................................................. 3
Any other course (including independent studies and special topics courses) 
in European history with permission of the Department of History .................... 3
One 300- or 400-level course in African, Asian, Middle Eastern, or 
Latin American history chosen from the following........................................... 3

HIST 320  Sub-Saharan Africa ................................................................. 3
HIST 331  Ancient History ................................................................. 3
HIST 419  East Asia to 1800 ............................................................... 3
HIST 420  East Asia since 1800 ........................................................... 3
HIST 421  Modern Japan ................................................................. 3
HIST 445  Latin American History to 1840 ...................................... 3
HIST 446  Latin American History since 1820 .............................. 3

Other courses (including independent studies and special topics courses) 
in African, Asian, Middle Eastern, or Latin American history with 
permission of the Department of History ............................................................ 3

Traditional concentration ................................................................................................. 18
Any 300- or 400-level history courses or PSCI 400 The Supreme Court and Constitutional Law.

Public history concentration ............................................................................................. 18

HIST 345  Introduction to Public History ........................................... 3
HIST 300  Historic Preservation (crosslisted as ENVS 307) .................. 3
HIST 432  Internship in Public History OR 
HIST 435  Civil War Practicum ............................................................. 3

One course from the following ...................................................................................... 3

HIST 318  The United States and World War II ................................ 3
HIST 360  Evolution of European Government ................................ 3
HIST 375  First World War ................................................................. 3

Any 300- or 400-level course in American history (not HIST 432 or 435) .......... 3
Any other 300- or 400-level history course by special arrangement with instructor. 3

ANTH 221  Introduction to Museum Studies ......................................... 3
ANTH 345  Archaeological Field Methods and Lab ............................ 3
ANTH 370  Historic Architecture in the United States ....................... 3
ENVS 220  Battlefield Preservation .................................................... 3
ENVS 322  Environmental History ...................................................... 3
HIST xxx  Any two 300- or 400-level history courses and can include 
PSCI 400  Supreme Court and Constitutional Law................................. 6

Civil War and Nineteenth-Century America concentration ........................................... 18

HIST 304  Civil War America, 1850-1865 ........................................... 3
HIST 307  The Reconstruction Era, 1865-1877 ................................. 3
HIST 430  Civil War Seminar OR 
HIST 435  Practicum in Civil War Studies........................................... 3

One course from the following ...................................................................................... 3

HIST 303  The Jacksonian Era, 1816-1850 ........................................... 3
HIST 308  The Old South ................................................................. 3
HIST 345  Introduction to Public History ........................................... 3
HIST 405  Introduction to African American History ....................... 3
HIST 438  Soldiers and American Society, 1861-1865 ....................... 3

Elective courses ................................................................................................................. 6

Any two 300- or 400-level history courses and can include PSCI 400 The Supreme Court and Constitutional Law.
## Curriculum for a Minor in History

### Specific general studies requirement:
- PSCI 101 American Federal Government .............................................. 3

### Total hours required for a minor .......................................................... 24

### Required courses...................................................................................... 15
- HIST 201 and 202 History of the United States .................................. 6
- HIST 314 Recent United States History OR
- HIST 404 Contemporary World since 1929 ........................................... 3
- One 300- or 400-level course in European history from the following ........ 3
  - HIST 329 Renaissance and Reformation ........................................ 3
  - HIST 332 Medieval History ............................................................... 3
  - HIST 333 Modern Europe ................................................................. 3
  - HIST 338 European Women to 1500 ................................................. 3
  - HIST 339 European Women since 1500 ............................................ 3
  - HIST 360 Evolution of European Government ................................... 3
  - HIST 375 First World War ................................................................. 3
  - HIST 407 England to 1603 ................................................................. 3
  - HIST 408 England since 1603 .............................................................. 3
  - HIST 410 Russia to 1855 .................................................................... 3
  - HIST 412 Russia since 1855 ............................................................... 3
  - HIST 416 Italian City States ............................................................... 3
  - HIST 440 Ideas in the Modern West .................................................. 3
  - Any other course (including independent studies and special topics courses)
    in European history with permission of the Department of History ........ 3
  - One 300- or 400-level course in African, Asian, Middle Eastern, or
    Latin American history chosen from the following ............................ 3
    - HIST 320 Sub-Saharan Africa ......................................................... 3
    - HIST 331 Ancient History ............................................................... 3
    - HIST 419 East Asia to 1800 ............................................................ 3
    - HIST 420 East Asia since 1800 ....................................................... 3
    - HIST 421 Modern Japan ................................................................. 3
    - HIST 445 Latin American History to 1840 .................................... 3
    - HIST 446 Latin American History since 1820 ............................... 3
  - Other courses (including independent studies and special topics courses)
    in African, Asian, Middle Eastern, or Latin American history with
    permission of the Department of History ........................................... 3

### Minor in Mass Communication

### Required hours for a minor ........................................................................ 24
- COMM 203 Introduction to Mass Communication ................................ 3
- COMM 302 Writing for the Mass Media .................................................. 3
- COMM 350 Single-Camera Production .................................................... 3
- COMM 326 Radio Practicum ................................................................. 3
- COMM 329 Sound Design ........................................................................ 3
- COMM 352 Computer-Mediated Communication ..................................... 3
- COMM 360 Studio Production ............................................................... 3
- COMM 420 Advanced Production .......................................................... 3

NOTE: Mass communication minors must earn a C or better in all required 300- and 400-level communications courses.
## Curriculum for a Major in Mathematics (Traditional)

**Required general studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 205</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Science and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 221/221L</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 222/222L</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 155</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours for major: **41-49**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 102</td>
<td>Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 100</td>
<td>Freshman Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MATH 207</td>
<td>Calculus I (C or better required)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Calculus II (C or better required)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 254</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 307</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 309</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 310</td>
<td>Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 329</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 333</td>
<td>Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 334</td>
<td>Senior Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Five of the following courses: 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 312</td>
<td>Introduction to Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 318</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 354</td>
<td>Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 404</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Topics in Modern Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 409</td>
<td>Introduction to Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MATH 410</td>
<td>Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 414</td>
<td>History and Development of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 424</td>
<td>Foundations of Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

## Curriculum for a Comprehensive Major in Mathematics—Engineering Concentration

The focus of this concentration is to prepare students for the third year of a baccalaureate degree program in engineering.

### First and Second Year

Specific general studies requirements: 21

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 205</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 207*</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221, 221L</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 222, 222L</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Written English</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Science and Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

* A minimum grade of C is required in MATH 207.

Required engineering courses: 25-30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 221, 222</td>
<td>Introduction to Electrical Engineering and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 241</td>
<td>Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 242</td>
<td>Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 243</td>
<td>Engineering Mechanics or Materials* OR</td>
<td>3</td>
</tr>
</tbody>
</table>
Students who are seeking a degree in mathematics with a concentration in engineering must complete the following course of study concurrently with the first two years.

**Third and Fourth Years**

Required courses in computer science and mathematics .......................................................... 36

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 254</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MATH 307</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MATH 318</td>
<td>Numerical Analysis</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Probability and Statistics</td>
</tr>
<tr>
<td>MATH 329</td>
<td>Mathematical Modeling</td>
</tr>
<tr>
<td>MATH 354</td>
<td>Operations Research</td>
</tr>
<tr>
<td>MATH 392</td>
<td>Internship in Mathematics</td>
</tr>
<tr>
<td>MATH 434</td>
<td>Senior Capstone</td>
</tr>
<tr>
<td>MATH 433</td>
<td>Applied Mathematics</td>
</tr>
<tr>
<td>ENGR 351</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>CIS 234</td>
<td>Introduction to Networking</td>
</tr>
<tr>
<td>CIS 386</td>
<td>Computer Organization</td>
</tr>
</tbody>
</table>

**Curriculum for Mathematics Teaching Field Grades 5-Adult**

Total hours required ............................................................................................................ 42

Content skill level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 106</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Precalculus (general studies requirement)</td>
</tr>
<tr>
<td>MATH 154</td>
<td>Finite Mathematics</td>
</tr>
</tbody>
</table>

Mathematics core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 207</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 254</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MATH 309</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MATH 329</td>
<td>Mathematical Modeling</td>
</tr>
<tr>
<td>MATH 434</td>
<td>Senior Capstone</td>
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</tbody>
</table>

Advanced mathematics for education:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 307</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MATH 312</td>
<td>Introduction to Abstract Algebra</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Probability and Statistics</td>
</tr>
<tr>
<td>MATH 414</td>
<td>History and Development of Mathematics</td>
</tr>
<tr>
<td>MATH 424</td>
<td>Foundations of Geometry</td>
</tr>
</tbody>
</table>

Special Requirements: 1.) Prior to student teaching, prospective student teachers must demonstrate competency in a computer programming language or receive a minimum of C in ENGR 102 Engineering II or CIS 211 Computer Languages Concepts. 2.) To graduate, prospective student teachers must pass PRAXIS II Math Content Test or pass MATH 435 PRAXIS II Math Preparation.
See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required). Special Methods of Teaching Mathematics is EDUC 420.

**Contact Person:** Dr. Osman Guzide, Stutzman-Slonaker Hall 211A, 304/876-5304.

### Curriculum for Mathematics Teaching Field Grades 5-9 General Mathematics through Algebra I

**Total hours required** ................................................................. 22  

**Content skill level:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Precalculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 200</td>
<td>Geometry and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus with Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional mathematics for education:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 154</td>
<td>Finite Mathematics (general studies requirement)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 254</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 314</td>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required) or Professional Studies Core for Middle School Education (39-40 hours required). Special Methods of Teaching Mathematics is EDUC 420.

**Contact Person:** Dr. Osman Guzide, Stutzman-Slonaker Hall 211A, 304/876-5304.

### Curriculum for a Minor in French

*Total hours required for minor in French** ........................................................................ 24

**Required courses** .............................................................................................................. 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 101</td>
<td>Elementary French I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 102</td>
<td>Elementary French II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 203</td>
<td>Intermediate French I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 204</td>
<td>Intermediate French II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 301</td>
<td>Advanced Conversation and Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (at least one must be 400-level)** .................................................................... 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 306</td>
<td>Introduction to France and the Francophone World</td>
<td>3</td>
</tr>
<tr>
<td>FREN 307</td>
<td>Introduction to France and the Francophone Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN 308</td>
<td>French Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 309</td>
<td>Francophone Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 311</td>
<td>Survey of French Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN 313</td>
<td>Survey of Francophone Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN 367</td>
<td>Francophone Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>FREN 411</td>
<td>Study Abroad</td>
<td>3</td>
</tr>
<tr>
<td>FREN 412</td>
<td>French-language Short Story</td>
<td>3</td>
</tr>
<tr>
<td>FREN 414</td>
<td>French-language Novel</td>
<td>3</td>
</tr>
<tr>
<td>FREN 416</td>
<td>Seminar in French Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN 419</td>
<td>Independent Study in French</td>
<td>3</td>
</tr>
</tbody>
</table>

### Curriculum for a Teaching Field in Spanish Education

See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required).

### Curriculum for a Minor in Spanish

*Total hours required for a minor in Spanish** ........................................................................ 24

**Required courses** .............................................................................................................. 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101</td>
<td>Elementary Spanish I</td>
<td>3</td>
</tr>
</tbody>
</table>
SPAN 102  Elementary Spanish II ............................................................ 3
SPAN 203  Intermediate Spanish I ........................................................... 3
SPAN 204  Intermediate Spanish II .......................................................... 3
Electives ........................................................................................................ 12

Nonliterary Track**:
SPAN 301  Advanced Conversation and Composition I ......................... 3
SPAN 302  Advanced Conversation and Composition II ............................ 3
SPAN 305  Spanish for Business ................................................................. 3
SPAN 306  Peninsular Culture and Civilization .......................................... 3
SPAN 307  Latin American Culture and Civilization ................................. 3
SPAN 367  Spanish and Latin American Film Studies .............................. 3
SPAN 404  Spanish Linguistics ................................................................. 3
SPAN 411  Study Abroad ......................................................................... 3
EDUC 425  Special Methods for Teaching Foreign Languages ................. 3

Literary Track**:
SPAN 310  Survey of Spanish Literature I .............................................. 3
SPAN 311  Survey of Spanish Literature II .............................................. 3
SPAN 312  Survey of Latin American Literature I .................................... 3
SPAN 313  Survey of Latin American Literature II ................................... 3
SPAN 400  Survey in Spanish I: Hispanic Short Story ............................... 3
SPAN 401  Survey in Spanish II: Hispanic Drama ................................... 3
SPAN 402  Survey in Spanish III: Hispanic Novel .................................... 3
SPAN 403  Survey in Spanish IV: Hispanic Poetry ................................... 3
SPAN 405  Seminar in Literature I ............................................................ 3
SPAN 406  Seminar in Literature II ........................................................... 3
SPAN 407  Seminar in Literature III ........................................................... 3
SPAN 410  Practicum in Spanish ............................................................... 3
SPAN 419  Independent Study in Spanish ................................................. 3

*Advanced Placement credit for foreign language courses may lessen the number of courses actually required for the minor. Also, many liberal arts majors require the first two-year language sequence for degree fulfillment; thus students in the liberal arts majors who take the Spanish minor need only take an additional 12 hours for the minor.

**Students may take courses from both literary and nonliterary tracks toward fulfillment of the minor. In addition to those in French and Spanish, sequenced courses in Elementary and Intermediate German are offered. Each of these courses carries three hours credit, and twelve hours in any one language is sufficient to satisfy the foreign language requirement for the B.A. degree. For individual listings of these courses, see Section VII; and for regulations governing advanced placement credit for foreign language courses and the foreign language waiver policy, see Section V (at end of Program of General Studies).

Curriculum for a Comprehensive Major in Music
Total hours required .................................................................................. 128-132
General education requirements ............................................................... 45*
Foreign language requirement ................................................................. 12
Music core requirements ........................................................................ 32
Music concentration area plus electives ................................................. 39-43
Basic music core:
MUEN 375  Masterworks ....................................................................... 1
MUSC 100  First Year Seminar for Music Majors .................................... 1
MUSC 103  Theory I ............................................................................... 3
MUSC 104  Aural Skills I ....................................................................... 1
MUSC 105  Theory II ............................................................................. 3
MUSC 106  Aural Skills II ................................................................. 1
MUSC 203  Theory III ................................................................. 3
MUSC 204  Aural Skills III ............................................................. 1
MUSC 205**  Theory IV ............................................................... 2
MUSC 206  Aural Skills IV .............................................................. 1
MUSC 303  Forms and Analysis ...................................................... 3
MUSC 310  Music History I ........................................................... 3
MUSC 311  Music History II ........................................................ 3
MUSC 312  Music History III ......................................................... 3
MUSC 498  Senior Music Seminar ............................................... 1
MUAP 397***  Junior Recital ......................................................... 1
MUAP 497  Senior Music Activity ................................................ 1
*Music majors do not need MUSC 111.
**Music theater majors may substitute MUSC 316 for MUSC 205 and voice performance majors may substitute MUSC 317 for MUSC 205.
***Waived for composition concentration students.

In addition to the basic music core, the following courses are required according to the declared concentration (choose one concentration area):

Performance concentration (select one emphasis) ............................................. 39-43

Orchestral instrument performance concentration:
MUAP xxx  Applied Major Instrument ........................................... 8
MUEN 360  Band .............................................................................. 8
Non-music electives .............................................................................. 23

Piano performance concentration:
MUAP 340*  Applied Piano .............................................................. 8
* Applied lessons. Must have 8 hours credit to graduate and must receive a jury level of 8.
MUAP 344  Applied Voice ................................................................. 1
MUEN 360  Band .............................................................................. 1
MUEN 373  Piano Ensemble and Accompanying ............................. 6
MUEN 374  Concert Choir OR
MUEN 375  Masterworks .................................................................. 3
MUSC 314  Keyboard Literature ....................................................... 3
MUSC 321  Piano Pedagogy .............................................................. 2
MUSC 329  Electronic Music Media .................................................. 2
Non-music electives .............................................................................. 16

Voice performance concentration:
MUAP 344*  Applied Voice .............................................................. 8
* Applied lessons. Must have 8 hours credit to graduate and must receive a jury level of 8.
MUSC 237  Diction I ........................................................................ 3
MUSC 247  Diction II ....................................................................... 3
MUSC 316  Vocal Literature ............................................................... 3
MUSC 323  Vocal Pedagogy ............................................................... 2
THEA 203  Acting I .......................................................................... 2
THEA 207  Theater Practice OR
THEA 208  Theater Practice ............................................................ 3
Non-music electives ............................................................................ 14

** Students with a voice performance concentration may substitute MUSC 317 Opera and Oratorio Literature for MUSC 205 Theory IV.

Guitar performance concentration:
MUAP 342*  Applied Guitar ............................................................. 8
* Applied lessons. Must have 8 hours credit to graduate and must receive a jury level of 8.
MUEN 360  Band .............................................................................. 1
MUEN 360  Band OR
MUEN 375  Masterworks .............................................................. 1
MUEN 372  Guitar Ensemble ............................................................ 4
MUSC 320  Guitar Pedagogy ............................................................. 2
Non-music electives ..................................................................... 23

Music theater performance concentration:
MUAP 344* Voice ........................................................................... 8
* Applied lessons. Must have 8 hours credit to graduate and must receive a jury level of 7.
GSPE 115  Modern Dance I ............................................................ 3
GSPE 116  Modern Dance II ............................................................ 3
MUEN 380  Music Theater/Opera Workshop .................................... 3
MUSC 317  Opera and Oratorio Literature ....................................... 3
MUSC 237  Diction I ........................................................................ 3
MUSC 247  Diction II ....................................................................... 3
THEA 203  Acting I .......................................................................... 3
THEA 207  Theater Practice OR
THEA 208  Theater Practice ............................................................ 3
Non-music electives ..................................................................... 10

**Students with a music theater performance concentration may substitute MUSC 316 or MUSC 205 Theory IV.

Piano pedagogy concentration ........................................................................................................ 43
MUAP 340  Applied Piano .................................................................. 8
* Applied lessons. Must have 8 hours credit to graduate, and must receive a jury level of 7.
MUAP 344  Applied Voice ................................................................ 1
MUEN 360  Band ............................................................................. 1
MUEN 373  Piano Ensemble & Accompanying .................................... 6
MUEN 374  Concert Choir OR
MUEN 375  Masterworks ................................................................ 2
MUSC 314  Keyboard Literature ........................................................ 3
MUSC 321  Piano Pedagogy ............................................................... 2
MUSC 329  Electronic Music Media .................................................... 2
MUSC 420  Apprenticeship in Music Pedagogy .................................... 4
PSYC 101  Introduction to Psychology OR
MUSC 350  Music Psychology ........................................................... 3
PSYC 301  Adolescent Development ................................................ 3
Non-music electives ..................................................................... 8

Curriculum for a Teaching Field in Music PreK-Adult
Total minimum semester hours required .................................................. 149
Professional education requirements ...................................................... 37
General education requirements ............................................................ 45
Music requirements ........................................................................... 67
MUAP xxx  Applied Major Instrument ............................................... 7
MUAP 497  Senior Music Activity ....................................................... 1
MUEN 360  Band ............................................................................. 1
MUEN 375  Masterworks ................................................................. 1
MUEN 360  Band (instrumentalists) OR
MUEN 375  Masterworks (vocalists) ................................................. 6
MUSC 100  First Year Seminar for Music Majors .............................. 1
MUSC 103  Theory I ......................................................................... 3
MUSC 104  Aural Skills I ................................................................. 1
I. GPA Requirement

Music majors must achieve a C in all MUSC courses. Students receiving grades lower than C in any MUSC course must retake the course. Students accepted into the music program are tested to evaluate their relative skill level in music theory. Those students who pass the evaluation will enter the core curriculum Music Theory and Aural Skills sequence (MUSC 103 and MUSC 104).

A. Students who fail may retake the evaluation prior to the first day of classes, at the instructor’s discretion, and once attaining a passing grade may enter into the normal course of study or;

B. Students who fail the evaluation will be required to register for Foundations of Music Theory (MUSC 101) in addition to Music Theory and Aural Skills (MUSC 103 and MUSC 104). These courses are to be taken concurrently.

II. Private Applied Lesson Requirement

Music majors are required to enroll for private applied lessons on their major instrument with an appropriate resident Shepherd University faculty member every semester prior to their graduation, even if the student has reached his/her required performance level and has achieved the required private applied credit hours. Composition majors must take a full hour

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* Not required for choral music education emphasis.

** Not required for instrumental music emphasis.

See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required). Special Methods of Teaching Music is EDUC 426.

Contact Person: Dr. David Gonzol, Coordinator of Music Education, Frank Center M-02, 304/876-5225.
of lessons on their primary instrument until they have reached a level of 6 on that instrument. At that point they may take lessons on their minor instrument or other instruments as desired. Composition majors may take more than one applied in a semester if desired and approved by the director of the music theory/composition area. Composition majors begin applied composition lessons after they have passed MUSC 105 (Music Theory II), and after that must take composition or orchestration lessons every semester they attend the University.

III. Ensemble Participation
A. Music majors are required to participate in the appropriate ensembles every semester of their University careers, with or without credit, save for the semester during which they are doing directed teaching. The term “appropriate ensemble” is determined by the head of each area and the department chair. Stage productions (opera and musical theater) are considered ensembles; all majors concentration in voice performance or musical theater are expected to audition for and participate in each stage production. Instrumental emphasis majors will take band each semester; vocal emphasis majors will take choir each semester. Keyboard and guitar emphasis majors may choose which of the two is most suitable to their goals. Piano emphasis majors may substitute keyboard ensemble as their appropriate ensemble after their fourth semester. The primary ensemble for composition majors is determined by their primary instrument; however, exceptions may be granted by permission of the department. A petition for such an exception must be submitted in writing to the department chair prior to registration for the affected semester.

Special Requirements of Nursing Majors
1. Submission of completed health data requirement prior to July 1 following acceptance into the program for fall semester and December 1 following acceptance into the program for the spring semester;
2. Submission of yearly PPD results (or chest x-ray, if appropriate) and evidence of CPR certification prior to July 1 of each year if admitted in the fall and December 1 if admitted in the spring;
3. Attend annual nursing assembly as scheduled;
4. Adhere to the policies and procedures in the Department of Nursing Education Student Handbook and Policy Manual;
5. Undergo a criminal background check, according to the procedure specified by the Department of Nursing Education;
6. Complete all coursework within three years of completing the first upper-division nursing course;
7. Pay a required special fee each semester for standardized testing.
8. Meet the core performance standards of the nursing program.

Curriculum for a Comprehensive Major in Nursing
Total hours required for the degree (including free electives) .......................................................... 130
General studies and nursing prerequisites ......................................................................................... 67
Upper-division nursing requirements ................................................................................................. 60
Elective .............................................................................................................................................. 3

Freshman: first semester
ENGL 101 Written English ................................................................. 3
CHEM 120* College Chemistry I ...................................................... 3
CHEM 120L* College Chemistry I Laboratory ................................ 1
GSPE 210 Fitness for Life ............................................................... 2
MUSC 111 Introduction to Music .................................................... 2
MATH 101 Fundamentals of Mathematics OR
MATH 105 College Algebra OR
MATH 108  Precalculus OR
MATH 154  Finite Mathematics OR
MATH 155  Discrete Structures OR
MATH 205  Calculus with Applications OR
MATH 314  Statistics ................................................................. 3-4

HIST 100  History of Civilization: Asian Traditions OR
HIST 101  History of Civilization: The Ancient and Medieval Worlds OR
HIST 102  History of Civilization: Change and Global Connections in the Early Modern World OR
HIST 103  History of Civilization: The Modern World ..................... 3

(Students will choose two of four history courses, but may not select both HIST 100 and 101.)

Freshman: second semester

ENGL 103  Writing for the Social Sciences OR
ENGL 102  Writing for the Arts and Humanities OR
ENGL 104  Science and Technical Writing ........................................ 3
CHEM 122*  College Chemistry II .................................................. 3
CHEM 122L*  College Chemistry II Laboratory .................................... 1
ART 103  Introduction to the Visual Arts .......................................... 2
PSCI 100  Politics and Government OR
PSCI 101  American Federal Government ......................................... 3

Sophomore: first semester

ENGL 208  Survey of World Literature I OR
ENGL 209  Survey of World Literature II ......................................... 3
BIOL 225*  Human Anatomy and Physiology .................................. 3
BIOL 227*  Human Anatomy and Physiology Lab ............................. 1
BIOL 302*  Microbiology ............................................................... 4
SOCI 203  General Sociology .......................................................... 3
PSYC 101  Introduction to Psychology .............................................. 3
NURS 231  Introduction to Nursing .................................................. 2

Sophomore: second semester

ENGL 204  Survey of American Literature ........................................ 3
BIOL 226*  Human Anatomy and Physiology .................................. 3
BIOL 228*  Human Anatomy and Physiology Laboratory .................. 1
ECON 123  Contemporary Economics OR
ECON 205  Principles of Macroeconomics ...................................... 3
FACS 318  Nutrition ................................................................. 3
COMM 202  Fundamentals of Speech ................................................. 3

*It is recommended that science courses be taken in order listed

Junior: first semester

NURS 311  Nursing I Introduction to Health Care ................................ 3
NURS 313  Nursing I-A Health Assessment ....................................... 3
NURS 315  Nursing I-B Clinical Component ....................................... 3
NURS 317  Essentials of Clinical Pharm/Patho in Nursing .................. 2
EDUC 300  Human Growth and Development ..................................... 3

Junior: second semester
NURS 316    Nursing II Health Care of the Adult ....................................... 3  
NURS 318    Nursing II Clinical Component ................................................ 3  
NURS 320    Nursing III Psychiatric/Mental Health Care ........................................ 3  
NURS 322    Nursing III Clinical Component .................................................... 2  
NURS 324    Nursing Research ............................................................................. 2  
NURS 326    Essentials of Clinical Pharm/Patho in Nursing ............................. 2  

Senior: first semester  
NURS 411    Nursing IV Community Health Care .............................................. 3  
NURS 413    Nursing IV Clinical Component ....................................................... 3  
NURS 415    Nursing V Health Care of Children and Families .......................... 3  
NURS 417    Nursing V Clinical Component ....................................................... 2  
NURS 426    Nursing VIII Health Care of the Adult with Complex Problems .......... 3  
NURS 428    Nursing VIII Clinical Component .................................................... 2  

Senior: second semester  
NURS 419    Nursing VI Health Care of Women .................................................. 3  
NURS 421    Nursing VI Clinical Component ....................................................... 2  
NURS 422    Nursing Health Care of the Adult: Gerontology Focus .................. 3  
NURS 424    Nursing VII Clinical Component ..................................................... 3  
NURS 434    Management and Issues in Health Care ......................................... 3  
NURS 436    Senior Capstone Seminar ............................................................... 1  

Special Fee: Standardized testing (per semester) approximately $85.

Curriculum for a Teaching Field in Physical Education, PreK-Adult
See Professional Education course listings under Education: Professional Studies Core for Secondary Education (34 hours required).

Curriculum for a Major in Political Science
Total hours required ........................................................................................................ 36  
Required courses ............................................................................................................. 21  
PSCI 210, 211 Conduct of Political Inquiry I and II ............................................. 6  
PSCI 300 State and Local Government ................................................................. 3  
PSCI 303 Public Administration ................................................................................. 3  
PSCI 315 Early Political Theory OR  
PSCI 316 Recent and Contemporary Political Theory ........................................... 3  
PSCI 324 International Relations ................................................................................. 3  
PSCI 325 Comparative Government: Western Europe OR  
PSCI 327 Comparative Government: The Soviet Union and its Aftermath OR  
PSCI 328 Comparative Government: Asia ................................................................. 3  
Elective courses ................................................................................................................ 15  
Any 300- or 400-level course in political science* OR  
ECON 350 Government and Business  
ECON 310 Public Finance  
HIST 402 Diplomatic History of the United States  
See Note.

Curriculum for a Major in Political Science, International Concentration
Total hours required ........................................................................................................ 36  
Required courses ............................................................................................................. 24  
PSCI 210, 211 Conduct of Political Inquiry I and II ............................................. 6  
PSCI 315 Early Political Theory OR  
PSCI 316 Recent and Contemporary Political Theory ........................................... 3 

See Note.
Two of the following Comparative Government courses:

PSCI 325  Comparative Government: Western Europe OR
PSCI 327  Comparative Government: The Soviet Union and its Aftermath OR
PSCI 328  Comparative Government: Asia OR
PSCI 329  Comparative Government: The Middle East...................... 6

PSCI 324  International Relations .................................................... 3
PSCI 405  International Political Economy ...................................... 3
PSCI 407  Introduction to International Law ...................................... 3

International elective courses.................................................................................................................. 6

PSCI 404  International Organization ................................................. 3
PSCI 406  American Foreign Policy since World War II.................... 3
PSCI 408  Global Problems ............................................................... 3
PSCI 425  Readings in Political Science (International)....................... 3
PSCI 443  Internship in Government (International).......................... 3
ECON 325  International Finance ...................................................... 3
ECON 326  International Trade .......................................................... 3
HIST 320  Sub-Saharan Africa .......................................................... 3
HIST 404  The Contemporary World since 1929............................... 3
HIST 420  Modern East Asia since 1800........................................... 3

Elective courses ................................................................................................................................. 6

Any 300- or 400-level courses in political science except for the international elective courses listed above.

In addition, the student is required to complete 12 semester hours in the same foreign language and to demonstrate intermediate competence in that language by achieving a score specified by the department on a standardized language examination and by passing an interview with the modern language faculty.

Study Abroad: The department recommends study abroad for a summer, a semester, or a year, and will be inclined to accept credits earned abroad in partial fulfillment of the requirements of the international concentration.

Curriculum for a Minor in Political Science

Total hours required ......................................................................................................................... 24

Required courses.............................................................................................................................. 15

PSCI 300  State and Local Government ............................................... 3
PSCI 303  Public Administration ............................................................. 3
PSCI 315  Early Political Theory OR
PSCI 316  Recent and Contemporary Political Theory ......................... 3
PSCI 325  Comparative Government: Western Europe OR
PSCI 327  Comparative Government: The Soviet Union and its Aftermath OR
PSCI 328  Comparative Government: Asia.......................................... 3
PSCI 324  International Relations ......................................................... 3

Elective courses ............................................................................................................................... 9

Any 300- or 400-level course in political science.*

* No more than six hours of PSCI 443, Internship in Government, can be counted toward the political science major or minor (additional internship hours will be considered as general electives).

NOTE: Most 300- and 400-level political science courses can only be offered every other year. Students should plan their schedules accordingly. It is strongly recommended that minors consult
periodically with political science faculty members to assure that their work in political science is proceeding appropriately.

**Curriculum for a Major in Psychology**

With permission of the chair of the Department of Psychology and the student's advisor, six of the 18 elective hours may be career-track electives. These are courses that clearly relate to the student’s career plans, but they cannot overlap with courses comprising the student’s minor field of study.

Total hours required ................................................................. 38

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 154</td>
<td>Finite Mathematics (general studies requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required hours:** ............................................................................................................... 23

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 250*</td>
<td>Statistics for the Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 251</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Lifespan Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>History and Systems of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 461</td>
<td>Survey of Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 484</td>
<td>Directed Readings</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 485</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives** ........................................................................................................................... 15

- Restricted electives, Group I (choose one course)
  - PSYC 370 Sensation and Perception                                     3
  - PSYC 371 Memory and Cognition                                         3
  - PSYC 372 Psychology of Learning                                      3

- Restricted electives, Group II (choose two courses)
  - PSYC 309 Abnormal Psychology                                           3
  - PSYC 405 Social Psychology                                            3
  - PSYC 410 Psychology of Personality                                    3

**Free electives (choose a minimum of two courses)** ......................................................... 6

At least 6 additional credits of PSYC 206 or any 300-400 PSYC, excluding PSYC 323 and 324 Conversational Sign Language I and II**.

*MATH 314 or BADM 224 may be substituted for PSYC 250.

**PSYC 415 Tests and Measurements is strongly recommended for those students interested in pursuing a career in clinical or counseling psychology.

**Curriculum for a Minor in Psychology**

Total hours required ............................................................................................................ 25

<table>
<thead>
<tr>
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<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 154</td>
<td>Finite Mathematics (general studies requirement)</td>
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</tr>
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</table>

**Required courses** ........................................................................................................... 13

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PSYC 101</td>
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<td>3</td>
</tr>
<tr>
<td>PSYC 250*</td>
<td>Statistics for the Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 251</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Lifespan Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives** ........................................................................................................................... 12

- Restricted electives, Group I (choose one course)
  - PSYC 370 Sensation and Perception                                     3
  - PSYC 371 Memory and Cognition                                         3
  - PSYC 372 Psychology of Learning                                      3

- Restricted electives, Group II (choose one course)
  - PSYC 309 Abnormal Psychology                                           3
  - PSYC 405 Social Psychology                                            3
  - PSYC 410 Psychology of Personality                                    3

**Free electives (choose a minimum of two courses)** ......................................................... 6
At least 6 additional credits of PSYC 206 or any 300-400 PSYC, excluding PSYC 323 and 324 Conversational Sign Language I and II**.

*MATH 314 or BADM 224 may be substituted for PSYC 250. Where the student has taken Statistics for the major, an additional upper-level PSYC course may be substituted.

**PSYC 415 Tests and Measurements is strongly recommended for those students interested in pursuing a career in clinical or counseling psychology.

**Out-of-Class and Progression Requirements for Recreation and Leisure Studies Majors**

The following requirements must be met for graduation:

1. It is REQUIRED that each major be an active member of an approved state or national organization in his or her specialization during the academic years while pursuing this major;
2. It is REQUIRED that all recreation majors attend two or more state and/or national conferences in their concentration during the academic years while pursuing this major.
3. Earn a minimum of C in each recreation and leisure studies core and concentration class.

Commercial Recreation/Tourism Concentration

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Introductory Accounting I OR</td>
<td>3</td>
</tr>
<tr>
<td>RECR 201 Sport Finance</td>
<td>3</td>
</tr>
<tr>
<td>BADM 340 Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FACS 202 Food and Meal Management</td>
<td>4</td>
</tr>
<tr>
<td>RECR 125 Introduction to Commercial Recreation/Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RECR 343 21st Century Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RECR 344 Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>RECR 350 Field Experience in Leisure Services OR RECR 392 Cooperative Education in Recreation/Leisure Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 323 Human Resource Management</td>
</tr>
<tr>
<td>RECR 226 Sport Promotion/Fund Raising</td>
</tr>
<tr>
<td>RECR 228 Sport Administration</td>
</tr>
<tr>
<td>RECR 342 Campus Recreation and Event Management</td>
</tr>
</tbody>
</table>

Sport and Event Management Concentration

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Introductory Accounting I OR</td>
<td>3</td>
</tr>
<tr>
<td>RECR 201 Sport Finance</td>
<td>3</td>
</tr>
<tr>
<td>BADM 312 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BADM 340 Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BADM 365 Promotional Strategy</td>
<td>3</td>
</tr>
<tr>
<td>RECR 108 Introduction to Sport Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 323 Human Resource Management</td>
</tr>
<tr>
<td>RECR 228 Sport Administration</td>
</tr>
<tr>
<td>RECR 342 Campus Recreation and Event Management</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 311 Small Business Management</td>
</tr>
<tr>
<td>RECR 226 Sport Promotion/Marketing/Fund Raising</td>
</tr>
</tbody>
</table>
ACCT 202  Introductory Accounting II .............................................. 3  
RECR 350  Field Experience in Leisure Services .............................. 3  
RECR 392  Cooperative Education in Recreation/Leisure Studies .......... 3  

**Sport Marketing Concentration**  
Required courses ......................................................................................... 27  
RECR 108  Introduction to Sport Studies............................................. 3  
RECR 226  Sport Promotion/Marketing/Fund Raising ............................. 3  
BADM 340  Marketing ............................................................................. 3  
BADM 395  Consumer Behavior ......................................................... 3  
RECR 326  Advertising and Public Relations for Sport Professionals .... 3  
RECR 350  Field Experience in Leisure Services ............................... 3  
RECR 392  Cooperative Education in Recreation/Leisure Studies .......... 3  
Select three of the following:  
BADM 350  Retailing ............................................................................... 3  
BADM 365  Promotional Strategy .......................................................... 3  
BADM 375  Strategic Marketing ............................................................ 3  
BADM 405  Marketing Research ............................................................ 3  
BADM 406  Professional Selling and Applied Business ....................... 3  
RECR 323  Human Resource Management in HPERS ........................... 3  

**Therapeutic Recreation Concentration**  
Required courses ......................................................................................... 25  
PHED 370  Applied Anatomy and Physiology ...................................... 4  
PHED 380  Perceptual Motor Learning ................................................. 3  
PHED 401  Teaching Adapted Physical Education ............................... 3  
RECR 115  Introduction to Therapeutic Recreation .............................. 3  
RECR 331  Medical Terminology .......................................................... 3  
RECR 350  Field Experience in Leisure Services ............................... 3  
RECR 430  Therapeutic Recreation Programming ............................... 3  
RECR 431  Issues and Trends in Therapeutic Recreation ..................... 3  
Required for certification ............................................................................. 6  
PSYC 309  Abnormal Psychology ........................................................... 3  
EDUC 300  Human Growth and Development ....................................... 3  

**Curriculum for Teaching Field in Social Studies Grades 5-Adult**  
Specific general studies requirements...................................................... 6  
PSCI 101  American Federal Government ............................................. 3  
ECON 205  Principles of Macroeconomics ............................................. 3  
Required courses ......................................................................................... 45  
HIST 201  History of the United States to 1865 AND  
HIST 202  History of the United States 1865 to Present ...................... 6  
HIST 309  West Virginia and the Appalachian Region ........................ 3  
HIST 314  Recent United States History OR  
HIST 315  History of American Women OR  
HIST 405  Introduction to African-American History ......................... 3  
HIST 333  Modern European History .................................................. 3  
HIST 338  European Women to 1500 OR  
HIST 339  European Women since 1500 OR  
HIST 410  Russia to 1855 OR  
HIST 412  History of Russia since 1855 OR  
HIST 445  Latin American History to 1840 OR
Curriculum for Teaching Field in Social Studies Grades 5-9

The social studies 5-9 program, which offers a subject specialization for certification, is intended primarily for students preparing to teach in middle schools.

Specific general studies requirements: .......................................................... 6

- PSCI 101  American Federal Government .............................................. 3
- ECON 123  Contemporary Economics .................................................. 3

Required courses ........................................................................................................ 24

- HIST 201  History of the United States to 1865 .................................. 3
- HIST 202  History of the United States 1865 to Present .................. 3
- HIST 309  West Virginia and the Appalachian Region ..................... 3
- HIST 314  Recent United States History, 1945 to Present OR
- HIST 315  History of American Women OR
- HIST 405  Introduction to African-American History ...................... 3
- HIST 320  Sub-Saharan Africa OR
- HIST 333  Modern European History OR
- HIST 338  History of Women in Europe before 1500 OR
- HIST 339  History of Women in Europe after 1500 OR
- HIST 419  East Asia to 1800 OR
- HIST 420  Modern East Asia OR
- HIST 421  History of Modern Japan .................................................. 3
- GEOG 101  Principles of World Geography ........................................ 3
- GEOG 301  World Economic Geography .............................................. 3

See professional education course listings under Education: Professional Studies Core for Secondary Education (37 hours required) or Professional Studies Core for Middle School Education (39-40 hours required). Special Methods of Teaching Social Studies is EDUC 422.

Contact Person: Dr. Barri Tinkler, Knutti Hall 103A, 304/876-5508 or the Department of Education, Knutti Hall 107, 304/876-5305.

Curriculum for a Comprehensive Major in Social Work

Minimum hours required (including free electives) ........................................... 130

General studies requirements: ................................................................. 47

Specific general studies requirements:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biological Science</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>General Biological Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 314</td>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Statistics fulfills the general education mathematics requirement. Students must complete one additional elective if they do not take a lower level math course.

Social work curriculum requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 201</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 300</td>
<td>Community Service Learning</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 301</td>
<td>Social Welfare as a Social Institution</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 305</td>
<td>Human Behavior in the Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 306</td>
<td>Human Behavior in the Social Environment II</td>
<td>3</td>
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<tr>
<td>SOWK 311</td>
<td>Social Work Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 312</td>
<td>Social Work Methods II</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 313</td>
<td>Social Work Methods III</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 325</td>
<td>Orientation to Field Practicum</td>
<td>1</td>
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<tr>
<td>SOWK 404</td>
<td>Social Welfare Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 407</td>
<td>Field Experience in Social Work I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 408</td>
<td>Field Experience in Social Work II</td>
<td>3</td>
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<tr>
<td>SOWK 411</td>
<td>Field Experience in Social Work III</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 412</td>
<td>Field Experience in Social Work IV</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 409</td>
<td>Field Experience Seminar</td>
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<tr>
<td>SOWK 410</td>
<td>Field Experience Seminar</td>
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Related required courses:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 410</td>
<td>Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 205</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 303</td>
<td>The Family</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 405</td>
<td>Research Methods in Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FACS 304</td>
<td>Child Development OR</td>
<td></td>
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<tr>
<td>EDUC 300</td>
<td>Human Growth and Development OR</td>
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<tr>
<td>PSYC 340</td>
<td>Lifespan Development Psychology</td>
<td>3</td>
</tr>
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Required electives (9 hours, one from each group):

**Diversity:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HIST 405</td>
<td>Introduction to African-American History</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 309</td>
<td>Sociology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 403</td>
<td>Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>WMST xxx</td>
<td>Any women’s studies offering including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SOWK 417 Sex and Gender in Contemporary Society</td>
<td>3</td>
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**Social and economic justice:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SOCI 402</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 331</td>
<td>Race, Gender, and Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 411</td>
<td>Politics of Poverty</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 411</td>
<td>Social Stratification</td>
<td>3</td>
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**Populations at risk:**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOWK 320</td>
<td>Child Welfare</td>
<td>3</td>
</tr>
<tr>
<td>HIST 309</td>
<td>West Virginia and the Appalachian Region</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 312</td>
<td>Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 402</td>
<td>Social Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 417</td>
<td>Sex and Gender in Contemporary Society</td>
<td>3</td>
</tr>
</tbody>
</table>
**Curriculum for a Minor in Women’s Studies**

Total hours required ................................................................. 21

Required courses ........................................................................ 6

- WMST 201 Introduction to Women’s Studies ......................... 3
- WMST 421 Women’s Studies Capstone/Independent Study .......... 3

Elective courses .......................................................................... 15

- WMST 350 Seminar in Women’s Studies ................................ 3-6
- PSYC 320 Human Sexual Behavior ........................................ 3
- PSYC 343 Psychology of Aging ............................................... 3
- HIST 315 History of American Women .................................... 3
- HIST 338 European Women to 1500 ....................................... 3
- HIST 339 European Women since 1500 ................................. 3
- ENGL 355 American Ethnic Literature .................................... 3
- ENGL 360 Literature and the Sexes ......................................... 3
- ENGL 366 Women in the Arts and Literature .......................... 3
- SOCI 303 Family ................................................................... 3
- PSCI 331 Race, Gender, and Politics ....................................... 3
- SOWK 320 Child Welfare Services ......................................... 3
- SOWK 402 Social Gerontology ............................................... 3
- SOWK 417 Sex and Gender in Contemporary Society ............. 3
- COMM 342 Media Studies ..................................................... 3
- COMM 355 Advertising and Imagery ...................................... 3
- MUSC 313 Women in Music ................................................... 3

For information contact Dr. Betty Elzey, Department of English and Modern Languages, or Dr. Anders Henriksson, Department of History.

**COURSES**

**ATHLETIC COACHING**

**ATHC 101. CHAMPS LIFE SKILLS PROGRAM (1)**

This course will support efforts of every student-athlete in the areas of intellectual development by using athletics as preparation for success in life, meeting the changing needs of student-athletes, and promoting respect for diversity as well as enhance interpersonal relationships. This course also will assist the athlete in developing study skills and time management.

**COMPUTER AND INFORMATION SCIENCES**

**CIS 333. MICROPROCESSOR SYSTEM DESIGN AND LAB (4)**

This course is a basic introduction to microprocessor/microcontroller programming using the INTEL 80xxx series of microprocessors/microcontrollers. The course has a strong lab component where students will be exposed to programming the INTEL 80xxx series microprocessors in addition to learning their basic architecture. Topics include Assembly language programming, instruction time cycles, memory interfacing, input-output interfacing, data converters A/D and D/A, interrupts, general purpose programmable peripherals, etc. If time permits, students will be asked to do a lab project in which the microprocessor/microcontroller is used in a real-life application, e.g., a digital thermometer. Prerequisites: ENGR 305 and CIS 386.

**CIS 395. INTRODUCTION TO CRYPTOGRAPHY AND COMPUTER SECURITY (3)**

This course covers basic concepts of cryptography and coding theory, historical ciphers, modern symmetric ciphers such as DES and 3DES, public cryptography such as RSA and elliptic curve cryptosystems and their applications in computer and information security, including data integrity
and authentication, digital signature, key exchange, and key management. Also covered are physical security, smart cards and biometrics, and security policy and documentation. Prerequisite: MATH 254 and CIS 234 or permission of instructor.

CIS 405. COMPUTER GRAPHICS (3)
Basic concepts such as graphics systems, modeling, and pipelines are introduced. Students also will learn to program in a popular graphics library, such as OpenGL or DirectX. Topics include basic 2-D and 3-D graphics programming, basic animation and controls, texture mapping, lights, and materials. Prerequisite: CIS 302.

CIS 419. DATA COMMUNICATION AND COMPUTER NETWORKS (3)
This course introduces the role of data communications and computer networks in a computer science environment. Special topics include concepts in fundamental communications; data communication hardware; serial, parallel, Ethernet, and network configurations; protocols and software; microcomputer communications; and computer networks. Prerequisites: CIS 234 and CIS 386 or permission of instructor.

CIS 421. COMPUTER ARCHITECTURE (3)
Topics include information representation, tags, check bits, floating-point arithmetic, instruction sets, RISC vs CISC, ALU design, bit slicing, microprogrammed control, microinstruction types, microprogram optimization, cache memories, interleaved memories, communication methods, bus control and timing, input-output, programmed I/O, interrupts and DMA, parallel and vector processors, pipelines, shared vs distributed memory, interconnection networks, and hypercube computers. Prerequisites: CIS 385 and CIS 386.

CIS 423. SERVER OPERATION SYSTEMS AND SYSTEM PROGRAMMING (3)
Students will learn the principles of current server operating systems and system level programming skills. The role of servers in enterprise networks and the design of modern server computer systems will be covered. Students also will learn how to use system level programming languages, such as C, Shell, Perl, etc., to automate repetitive system administration tasks. Prerequisites: CIS 395 or permission of instructor.

EDUCATION
EDUC 314. FOUNDATIONS OF EARLY EDUCATION (3)
A course designed to acquaint students with historic background and modern-day trends relative to the aims and content of curriculum in early education. This course is offered on a three-semester rotation schedule.

EDUC 334. INSTRUCTIONAL STRATEGIES IN EARLY EDUCATION (3)
A course designed to provide students with instructional strategies and materials appropriate to instruction in a variety of early education environments. This course is offered on a three-semester rotation schedule.

EDUC 336. CLINICAL EXPERIENCES IN EARLY EDUCATION (3)
Clinical experiences necessary to the practical application of those approaches unique to early education. Prerequisites: FACS 304, EDUC 314, EDUC 334 or permission. This course is offered on a three-semester rotation schedule.

EDUC 380. TECHNOLOGY IN 21ST-CENTURY TEACHING AND LEARNING (3)
The focus of this course is the effective use of 21st-century technology in the contemporary classroom. The course aims to help teachers use the power of computer technology to spark students’ imagination and ultimately move them toward greater learning. This course provides a critical
analysis of the full range of educational technology and its use in the classroom. In this course, pre-service teacher candidates will develop knowledge, skills, and dispositions which support the use of technology to create effective learning environments that provide opportunities for students to interact with content in meaningful ways and to assess students in nontraditional ways. Prerequisite: Admission to teacher education program.

**EDUC 443. READING IN THE CONTENT AREAS (3)**
This is a field experience course for all students seeking certification in a secondary teacher education program. An on-campus seminar will focus on reading instruction in the content areas of the curriculum. Attention is given to the identification of the special reading abilities required in the subject matter areas. Students will focus many of their in-field lessons on the teaching of reading in the content area. Students will arrange their field work schedules so that they may meet their individual professional development needs. A minimum of 40 hours in a public school is required. Prerequisite: EDUC 370 or EDUC 319. Corequisite: Special Methods course for students’ content area.

**ENGLISH**

**ENGL 301. INTRODUCTION TO LITERARY STUDY (3)**
This course introduces English majors to the discourse, practices, and protocols associated with the study of literature. The course is the gateway to all English classes above the sophomore-level surveys and must be completed with a C or higher before taking any upper-division classes in the major. Prerequisites: Successful completion of ENGL 101 (Written English) and ENGL 102, 103, or 104.

**ENGL 310. SURVEY OF BRITISH LITERATURE TO 1660 (3)**
A survey of the major works of poetry and prose of British literature from *Beowulf* through the Renaissance. Prerequisite: ENGL 301.

**ENGL 311. SURVEY OF BRITISH LITERATURE 1660-1900 (3)**
A survey of major works of poetry and prose of British literature from 1660 through 1900. Prerequisite: ENGL 301.

**ENGL 312. AMERICAN LITERATURE TO 1900 (3)**
American Literature to 1900 is an advanced critical study of the major writers, as well as the intellectual and literary movements, of the American experience and literary tradition from its beginnings to 1900. Prerequisites: ENGL 204 and ENGL 301.

**ENGL 313. LITERATURE IN ENGLISH FROM 1900 (3)**
A survey of British, American, and Anglophone literature from 1900 to the present with an emphasis on Modernist, post-Modernist, post-Colonial, and contemporary texts.

**ENGL 400. GREEK MYTHOLOGY (3)**
An in-depth study of Greek mythology through discussion of significant Greek and Roman texts read in translation, with emphasis on the historical, cultural, and literary influence that Greek myths have exerted on the thinking and writing of the Western world. Prerequisite: ENGL 301.

**ENGL 402. THE BIBLE AS LITERATURE (3)**
A study of the various types of literature found in the Bible. Prerequisite: ENGL 301.

**ENGL 415. CHAUCER (3)**
A study of Chaucer’s language and art as they are revealed in his works, primarily *Troilus and Criseyde* and *The Canterbury Tales*. Prerequisite: ENGL 301
ENGL 423. MILTON (3)
A thorough study of the lyric and epic poems of Milton, including a detailed critical reading of *Paradise Lost*, viewed within the literary and historical contexts of Stuart and Commonwealth England. Prerequisite: ENGL 301.

FRENCH

FREN 301. ADVANCED CONVERSATION AND COMPOSITION (3)
A course designed to help students sharpen their oral and writing skills through the use of guided conversation and composition. Prerequisite: FREN 204 or permission of instructor.

FREN 306. INTRODUCTION TO FRANCE AND THE FRANCOPHONE WORLD (3)
This course is an introduction to France and French-speaking countries around the world. Students will gain an understanding of these cultures from a political, historical, social, and literary perspective. Prerequisite: FREN 301 or permission of instructor.

FREN 307. INTRODUCTION TO FRENCH AND FRANCOPHONE LITERATURE (3)
An introduction to textual analysis, the course comprises prose, poetry, and drama. The texts are studied using current critical techniques. Prerequisite: FREN 301 or permission of instructor.

FREN 308. FRENCH CULTURE AND CIVILIZATION (3)
This course provides an in-depth, critical study of two or three aspects of French culture and civilization. Course content will be determined by the individual instructor but can cover any cultural product or institution from any time period. Prerequisites: FREN 301 and FREN 306 or permission of instructor.

FREN 309. FRANCOPHONE CULTURE AND CIVILIZATION (3)
This course provides an in-depth, critical study of two or three aspects of Francophone culture and civilization. Course content will be determined by the individual instructor but can cover any cultural product or institution from any time period. Prerequisites: FREN 301 and FREN 306 or permission of instructor.

FREN 311. SURVEY OF FRENCH LITERATURE (3)
A study of the major literary and philosophical movements in France from the 18th through the 21st century. The student will be exposed to examples of theater, prose, and poetry. Prerequisites: FREN 301 and FREN 307 or permission of instructor.

FREN 313. SURVEY OF FRANCOPHONE LITERATURE (3)
A study of major literary works from French-speaking areas in North America, Africa, and the Caribbean from the 19th century to the present. Prerequisites: FREN 301 and FREN 307 or permission of instructor.

FREN 367. FRANCOPHONE FILM STUDIES (3)
An in-depth critical study of selected films. Course content will be determined by the individual instructor, but can cover any aspect of Francophone cinema, i.e., films of any time period, any genre, or any Francophone country. The language of instruction is French. Prerequisites: FREN 101, FREN 102, FREN 203, FREN 204, and FREN 301.

FREN 411. STUDY ABROAD (3)
Shepherd University will offer a series of study abroad opportunities in a number of French-speaking countries such as Canada (Quebec), France, and Senegal. Students will be immersed in the target language through classroom instruction, family homestay, and cultural activities. Prerequisites: FREN 101 and 102. Repeatable up to 9 hours.
FREN 412. FRENCH-LANGUAGE SHORT STORY (3)
This course is a study of the short story (conte) in France and French-speaking countries from its beginnings to the contemporary period, with representative readings. Prerequisites: FREN 301 and FREN 307 or permission of instructor.

FREN 414. FRENCH-LANGUAGE NOVEL (3)
This course is a study of the novel in France and French-speaking countries from its beginnings to the contemporary period, with representative readings. Prerequisites: FREN 301 and FREN 307 or permission of instructor.

FREN 416. SEMINAR IN FRENCH LITERATURE (3)
A seminar course focusing on a literary genre, movement, period, or figure chosen by the instructor and approved by the coordinator. The student is expected to attend regular meetings of the seminar, participate in open discussions, and present a series of short written and oral reports related to the topic chosen for study. The student is also responsible for submitting a major documented paper which individually investigates an aspect of the topics of the course as a whole. Prerequisites: FREN 301, FREN 307 and either FREN 311 or FREN 312.

HEALTH EDUCATION
HLTH 391. WORKSITE HEALTH PROMOTION (3)
This course will concentrate on the identification, assessment, planning, implementation, and evaluation of worksite health promotion. Students will have the opportunity to develop a worksite health promotion (wellness) program.

HISTORY
HIST 250. INTRODUCTION TO HISTORICAL STUDIES (3)
An introduction to historiography and to historical methodology.

HIST 445. LATIN AMERICA TO 1840 (3)
This course examines the political and social formation of Latin America to 1840, including the pre-Columbian era, colonial society, and independence movements. Themes examined will include relations between the individual and the state, and issue of gender, race, and religion. Students will work extensively with primary documents.

HIST 446. LATIN AMERICA SINCE 1820 (3)
This course examines modern Latin America from the formation of independent states around 1820 through the present day. Themes emphasized include political and economic structures, relations with the United States, human rights, and the impact globalization.

MATHEMATICS
MATH 434. SENIOR CAPSTONE (3)
This course involves a research-oriented project under the guidance of a faculty advisor or internship mentor. The student has the opportunity to work on a long-term project that could lead to a presentation at a scientific meeting or publication in a scientific journal. Typically the research is spread over two or three semesters and at the end, the student writes a paper summarizing the results and also gives an oral presentation of the results. The student is required to meet with the faculty by the end of the second year of coursework in order to get started on the research work. Students are strongly encouraged to present results at scientific meetings.

MUSIC
MUEN 374. WOMEN’S CAMERATA/MEN’S CHOIR (1)
Separate choral ensembles for men and women alone, covering literature from all periods of music
history and occasionally performing joint works. Performance schedule includes campus and local performances. Audition required.

MUEN 385. GAMELAN ENSEMBLE (1)
Emphasis is placed on multiple-percussive techniques and literature. Permission of the instructor.

MUSC 101. FOUNDATIONS OF MUSIC THEORY (2)
An introduction to the fundamentals of music theory, this class teaches students to read music, clefs, key signatures, and musical intervals. It will also teach students the basics of solfège and aural dictation. This course cannot be used to fulfill degree requirements for the music major or minor. Prerequisite: Please see special requirements for music majors regarding Theory Placement Exam.

MUSC 103. MUSIC THEORY I (3)
This four-semester sequence of courses (MUSC 103, 105, 203, 205) is designed to provide the student with a fundamental grounding in the theoretical, analytical, and stylistic aspects of Western music. The focus of this course is upon the acquisition of skills in the notation, analysis, and construction of music as it developed from the 17th through the 20th centuries. Prerequisite: Please see special requirements for music majors regarding Theory Placement Exam.

MUSC 303. FORM AND ANALYTICAL TECHNIQUES (3)
A multi-partite course segmented into sessions of study examining the following: 1) Pre-Classic era through Romantic era formal paradigms and their evolution; 2) a survey of pre-tonal contrapuntal techniques and the development of Baroque contrapuntal design; 3) an introduction to the principal axioms of reductive analysis, exemplified by the works of the theorist Heinrich Schenker and his followers; and 4) a primer in the analytical heuristics of post-tonal (set) theory.

PHOTOGRAPHY/COMPUTER IMAGERY
PHOT 282. BLACK AND WHITE PHOTOGRAPHY II (3)
A continuation of Black and White I. Topics include fiber-based paper, working on a larger scale, and advanced printing techniques. Emphasis will be placed on the production of a cohesive body of work in terms of concept. Prerequisite: PHOT 281.

PHOT 385. COMPUTER DIGITAL IMAGERY (3)
An introduction to computer imaging for visual artists, in which students will learn the fundamentals of image manipulation through digital means. This course also will address the relationship of manipulated images in context of our current culture. Prerequisite: PHOT 281.

PHOT 480. RESEARCH IN PHOTOGRAPHY I (3)
This course designed as a culminating experience within the concentration area of photography with emphasis on contemporary photographic issues. The development of a portfolio and artist’s statement as well as advanced standards of critical observation and analysis are expected. Prerequisites: PHOT 281, PHOT 282, and PHOT 383.

PHOT 483. ALTERNATIVE PROCESSES (3)
This class explores various photographic processes as a means of creating effects other than the standard rendition. Nonsilver, instant-print manipulations and other processes and techniques will be presented. Prerequisites: PHOT 281 and PHOT 282.

PHOT 489. RESEARCH IN PHOTOGRAPHY II (3)
This course is a continuing exploration of the visual experience within the concentration area of photography with emphasis on contemporary photographic issues. The development of a portfolio
as well as advanced standards of critical observation, analysis, and written essays are required. Prerequisite: PHOT 480.

POLITICAL SCIENCE

PSCI 210. CONDUCT OF POLITICAL INQUIRY I (3)
Introduction to research methods and their application to the study of politics. Topics include epistemology, empiricism, survey research and polling, elite interviewing, and document analysis. Special attention will be given to hypothesis formation, research design, and literature review. A central focus of the course is on learning to effectively evaluate the large amounts of information presented to us in daily life. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 211. CONDUCT OF POLITICAL INQUIRY II (3)
Continued exploration of research methods and their application to the study of politics. Special attention will be given to literature review, data collection, and statistical analysis. A central focus of the course is on learning to evaluate effectively the large amounts of information presented to us in daily life. Prerequisite: PSCI 210 or permission of instructor.

PSCI 300. STATE AND LOCAL GOVERNMENT (3)
A study of the functions and administration of the government on the state and county levels. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 301. PUBLIC POLICY (3)
Study of public policy development and implementation in the United States, with emphasis on the ways in which cultural, political, and institutional factors may inhibit or expedite pursuit of public policies designed to meet societal needs and with consideration of selected contemporary issues of public policy within this framework. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 303. INTRODUCTION TO PUBLIC ADMINISTRATION (3)
An introductory study of the development, organization, procedures, processes, and human relations factors in governmental administration. Particular emphasis will be placed on the study of administrative practices in the federal, state, and local governments in the United States. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 324. INTERNATIONAL ORGANIZATION OF WORLD GOVERNMENTS (3)
Examines the theory and structure of international organizations with special emphasis on the U.N.; other organizations to be discussed include NATO, the European Community, OAS, and other regional organizations. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 415. POLITICS AND CIVIL RIGHTS (3)
This course examines the politics of the African-American civil rights struggle with an emphasis on the years 1960 through 1965. The latter is often thought of as the high point of success for the Second Reconstruction. The course is divided into three major sections: 1) an overview of the politics of civil rights from the end of the Civil War through the Eisenhower administration; 2) the Kennedy-Johnson presidencies; and 3) a very brief overview of the post-Johnson years, with an emphasis on the changes that have occurred in political party strategies and public opinion as they effect and are effected by African-American civil rights. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 416. RACE, GENDER, AND POLITICS (3)
The purpose of this course will be to acquaint the student with political issues that are related to race and gender. Historic, economic, legal, and ideological context will be presented. Individuals, groups, and government responses will be examined, as well as how similar issues are viewed dif-
ferently in various cultures and political situations. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 420. CRITICAL POLITICAL ISSUES (3)
Detailed exploration of critical issues like abortion rights, gun control, and affirmative action helps students understand and evaluate fundamental questions about policy making and the policy process in American government. Themes of the course include questions of power, checks and balances among the three branches of American government, the legitimacy of policy outcomes in the area of social regulatory policy, and the obstacles to collective action in the political realm. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 442. AMERICAN POLITICAL THOUGHT (3)
A study of the growth and development of American political concepts from the Colonial period to the present. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSCI 444. PRACTICUM: PUBLIC POLICY AND ADMINISTRATION (3)
This course is a form of independent study that integrates lessons learned in the classroom with supervised work experience in government. Students will be afforded the opportunity to attend seminars conducted by the Eastern Management Development Center and to work at the center. Written reports will be required as part of this class. Prerequisite: PSCI 100 or 101 or permission of instructor.

PSYCHOLOGY

PSYC 101. INTRODUCTION TO PSYCHOLOGY (3)
A survey course introducing the core areas of psychology, including neuropsychology, learning and memory, intelligence, developmental psychology, stress and health, personality, abnormal psychology, psychotherapy, and social psychology.

PSYC 309. ABNORMAL PSYCHOLOGY (3)
A study of the classifications, dynamics, symptoms, and treatment of abnormal behavior. Prerequisite: PSYC 101.

PSYC 371. MEMORY AND COGNITION (3)
An introduction to human cognitive processes including attention, perception, memory, concept formation, psycholinguistics, problem solving, and thinking. Course emphasizes the role of experimentation in understanding the information processing systems underlying human cognition, language, and memory. Prerequisites: PSYC 251 and ENGL 102, 103, or 104.

PSYC 372. PSYCHOLOGY OF LEARNING (3)
A survey of methods, empirical findings, and theoretical interpretations in human and animal learning, including such topics as classical and operant conditioning, animal cognition, and machine learning. The course also covers discrimination, generalization, and the role of reward, punishment, and other motivational variables in learning. Prerequisites: PSYC 251 and ENGL 102, 103, or 104.

PSYC 381. SPORT PSYCHOLOGY (3)
This course is designed for students interested in learning theoretical as well as practical information as it relates to the psychology of sport. This class will introduce students to the areas of sport psychology and health psychology. Students will be presented with a number of effective mental training exercises that will help to enhance one’s level of athletic performance. Prerequisite: PSYC 101.
RECREATION AND LEISURE STUDIES

RECR 201. SPORT FINANCE (3)
This course provides students with principles of sport finance, basic accounting for sport managers, economics of leisure and sport organizations (including schools, universities, club programs, and professional sport organizations), budget development, and financial accountability. Case studies and projects will be included in the course.

RECR 228. SPORT MANAGEMENT (3)
Focuses on areas of leadership with emphasis on functions of management, time management, and decision making as they relate to a career in sport and event management.

RECR 323. HUMAN RESOURCE MANAGEMENT IN SPORT (3)
This course provides an introduction to the field of personnel/human resources management as it relates to sport and recreation and investigates the role of the personnel manager in the public, nonprofit, and private sectors. A variety of personnel functions and procedures is examined including HR planning, job analysis, performance appraisal, personnel selection, orientation, training and development, compensation and benefits, labor-management relations, civil service systems, EEO/AA, and the impact of legislation on the personnel function.

RECR 326. ADVERTISING AND PUBLIC RELATIONS FOR SPORT PROFESSIONALS (3)
This course introduces strategies, issues, and effective practices of communication in the sports field and its constituencies. It includes the study of public opinion research, media relations, public communication campaigns, consumer identity, advertising, and representational ethics. Students gain practical experience in writing sports-related news releases, conducting surveys, and designing integrated campaigns.

SPANISH

SPAN 11. STUDY ABROAD (3)
Shepherd University will offer a series of study abroad opportunities during the summer. The department has scheduled trips to Argentina and Peru, and future offerings will likely include other Spanish-speaking countries. Students will produce a paper upon their return in order to get credit for this course. Repeatable to 9 hours.

WOMEN’S STUDIES

WMST 350. SEMINAR IN WOMEN’S STUDIES (3)
This course will vary in content with each offering as areas of particular interest not covered by the regular curriculum are explored. This course may be repeated for credit when the course content is changed.
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