Penn State Abington

Penn State’s Abington College, located on forty-five picturesque acres in suburban Philadelphia, offers a small-university environment within the context of a major university. Students beginning their academic careers at Penn State Abington have the flexibility to complete their degrees at Abington, University Park, or at one of the several other Penn State locations around the state.

The college also offers a full range of academic and student support services, including a lower-division college, an honors program, an upper-division Schreyer Honors College program, internships, undergraduate research with faculty, state-of-the-art computer facilities, a learning center, a wide range of student clubs and organizations, varsity and club sports, and a career development center. For additional information, please contact the Office of Admissions, Penn State Abington, 1600 Woodland Road, Abington, PA 19001; 215-881-7600.

In addition to offering the lower division courses of more than 160 Penn State majors, Penn State Abington offers baccalaureate degree programs that can be completed at Penn State Abington. See "Majors and Programs" on the Penn State Abington website for a current list.

CONTINUING AND DISTANCE EDUCATION

Penn State Abington offers one of the most comprehensive professional development programs in the Philadelphia region. Workshops, seminars, and certificate programs are offered on campus year round. State-of-the-art computer labs and courses, designed to keep pace with a rapidly changing market, are available through Abington’s Center for Information and Computer Technology. In addition, corporate on-site training and development, and credit programs are provided, tailored to the needs of area businesses and organizations. Visit Penn State Abington’s Continuing and Distance Education site at www.abington.psu.edu/ce on the web.

RECOMMENDED ACADEMIC PLANS

Recommended Academic Plans provide, in table form, the courses students might schedule semester by semester as they pursue a specific undergraduate degree. Each college or campus maintains Recommended Academic Plans for its own majors/degree programs. Links to these plans are on the Division of Undergraduate Studies website at: http://www.dus.psu.edu/semplans.htm. Questions concerning the Recommended Academic Plans should be directed to the college or campus involved or the Division of Undergraduate Studies.

GENERAL GRADUATION REQUIREMENTS

All baccalaureate degree candidates must follow the graduation requirements as established by the University Faculty Senate:
1. Minimum of 2.00 cumulative grade-point average.
2. Completion of minimum total credits for graduation. Descriptions are available in this bulletin for the minimum number of credits required for each major.
3. Completion of all General Education, College (B.A. degrees only), elective, and major requirements.
4. All courses fulfilling major requirements must be completed with a grade of C or higher.
5. Students wishing to graduate with a minor must apply for the minor no later than the end of the semester prior to graduation. All required course work must be completed with a C or higher by the end of the semester the student plans to graduate.
6. Students in Bachelor of Arts degree programs must complete level 003 of a foreign language with a D or higher.
7. Students in Bachelor of Science degree programs must have either 2 Carnegie Units of foreign language
completed prior to admission to Penn State, or a grade of C or higher in college-level 001 or 002 of a foreign language, or a grade of D or higher in college-level 3.

**Note:**
1. ENGL 004, 005; MATH 001, 002, 003, 004, and ESL 004 cannot be counted toward the total number of credits required for graduation.
2. Although a student may repeat a required course in which a grade of D was received, the credits for such a course may by counted only once toward the total number of credits required for graduation.

See [B.A. Degree Requirements](#) for courses that meet University-wide bachelor of arts degree requirements.

**PENN STATE ABINGTON**

KAREN WILEY Sandler, Chancellor

NORAH SHULTZ, Associate Dean for Academic Affairs

SAMIR OUZOMGI, Assistant Dean for Assessment and Planning

**COLLEGE ACADEMIC ORGANIZATION**

Arts and Humanities Division -- THOMAS R. SMITH, Head

Continuing Education -- JANE A. OWENS, Senior Director

Library -- DOLORES FIDISHUN, Head Librarian

Registrar -- JOAN M. RAUDENBUSH

Science and Engineering Division -- ANN SCHMIEDEKAMP, Head

Social Science Division -- MANOHAR SINGH, Head

Undergraduate Studies, Division of -- NITA GUZMAN, Manager

8/8/14

**Baccalaureate Degrees**

**Accounting**

*Penn State Abington (ACCAB)*
*Penn State Berks (ACCBL)*
*Capital College (ACCT)*
*World Campus*

JANE KOCHANOV, Director of Undergraduate Studies, School of Business Administration

This major helps students prepare for careers in auditing and public accounting, industrial and managerial accounting, and in governmental and not-for-profit accounting. It also provides a sound background for students who plan to pursue graduate studies in accounting or related fields. Students who complete the prescribed courses and earn a Bachelor of Science degree will satisfy the academic requirements to sit for the Certified Public Accountant (CPA) examination. Graduates may also elect to pursue other professional certifications, including Certified Management Accountant (CMA), Certified Internal Auditor (CIA), Certified Fraud Examiner (CFE), and Certified Government Financial Manager (CGFM). Because the Harrisburg area is the center of industry and economic development for south-central Pennsylvania, students are provided with many opportunities to experience the world of business.

For a B.S. in Accounting a minimum of 120 credits is required. At least 50 percent of the business credit hours required for the degree must be taken at the Capital College. No more than 60 credits should be from business and business-related courses. Students wishing to fulfill the 150 credit-hour education option to become a CPA in Pennsylvania (which reduces the experience requirement for certification) are encouraged
to enter Capital College's Master of Business Administration program or the Master of Science in Information Systems program subsequent to receiving their undergraduate accounting degree.

Entry to Major Requirements:
Entry to the Accounting major requires the completion of 8 entry-to-major courses: ACCTG 211(4)\[1\]; ECON 102 GS(3); ENGL 015 GWS(3)\[1\] or ENGL 030 GWS(3)\[1\]; FIN 301(3); MATH 110 GQ(4)\[1\] or MATH 140 GQ(4)\[1\]; MGMT 301(3); MKTG 301(3); SCM 200 GQ(4)\[1\] or STAT 200 GQ(4)\[1\]; and a 2.00 or higher cumulative grade-point average. Additional information about this major is available in the office of the Director of Undergraduate Studies, School of Business Administration at Penn State Harrisburg.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(12 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education Course Requirements in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 8 credits of non-business courses

REQUIREMENTS FOR THE MAJOR: 79 credits
(This includes 12 credits of General Education Courses: 3 credits of GWS courses; 3 credits of GS courses; 6 credits of GQ courses)

PRESCRIBED COURSES (55 credits)
ACCTG 211(4)\[1\] (Sem: 1-4)
ECON 102 GS(3) (Sem: 1-4)
ENGL 202D GWS(3) (Sem: 1-4)
FIN 301(3), MKTG 301(3), MGMT 301(3) (Sem: 1-4)
B A 364Y US;IL(3), B A 462(3)\[1\], MIS 390(3), SCM 301(3) (Sem: 5-8)
ECON 104 GS(3), MIS 204(3) (Sem: 5-8)
ACCTG 310(3)\[1\], ACCTG 340(3)\[1\], ACCTG 403(3)\[1\], ACCTG 471(3)\[1\], ACCTG 472(3)\[1\], ACCTG 473(3)\[1\] (Sem: 5-8)

ADDITIONAL COURSES (18 credits)
Select 4 credits from MATH 110 GQ(4)\[1\] or MATH 140 GQ(4)\[1\] (Sem: 1-4)
Select 4 credits from SCM 200 GQ(4)\[1\] or STAT 200 GQ(4)\[1\] (Sem: 1-4)
B A 243(4) or B A 241(2) and B A 242(2) (Sem: 5-6)
Select 6 credits\[1\] from the following: ACCTG 410(3), ACCTG 431(3), ACCTG 432(3), ACCTG 440(3), ACCTG 461 IL(3), ACCTG 462(3), ACCTG 463(3), ACCTG 489(3), ACCTG 494(1-12), ACCTG 496(1-18), ACCTG 497(1-9) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (6 credits)
Select 6 credits from 200-400 level business courses from: ACCTG, B A, ECON, FIN, MGMT, MIS, MKTG, or SCM in consultation with an academic adviser and in support of the student's interests. (Sem: 3-8)

\[1\] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Reviewed by the Department: Summer Session 2011

Blue Sheet Item #:40-01-044
Review Date: 8/16/2011
UCA Revision #:1: 8/2/06
UCA Revision #:2: 7/26/07

CL

American Studies

Abington College (AMSAB)
Penn State Harrisburg (AMSCA)
PROFESSOR SIMON J. BRONNER, Chair, American Studies Program

This interdisciplinary major is designed to provide students with an integrated and critical knowledge of American culture, drawing on courses in American Studies and in the traditional disciplines and culminating in two senior seminars. A number of interests may be pursued within the major, including popular culture, art, technology, business, law, archives, museology, and conservation. The major helps prepare students for careers in business, teaching, government, and a number of other areas, and for enrollment in law and other professional programs.

For entrance into the major, the following must be met:
1. At the end of the sophomore year, any student in good standing may gain entrance into the major without having completed specific courses.
2. Any student seeking entrance during the fifth semester will be granted entrance at the discretion of the American Studies Committee and/or Director following evaluation of the student's record.
3. Any student seeking entrance during or after the sixth semester will be expected to have completed at least 12 credits, which may be counted toward the major in American Studies.

For the B.A. degree in American Studies, a minimum of 123 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 21 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 33 credits[1]

PRESCRIBED COURSES (6 credits)
AM ST 491W(6) (Sem: 5-8)

ADDITIONAL COURSES (3 credits)
AM ST 100 GH(3) or AM ST 100Y GH(3) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (24 credits)
(Include 12 credits at the 400 level distributed in at least two of the areas.)
Select 9 credits in each of two of the following areas; select 6 credits in one other of the areas: (Sem: 3-8)
   a. American literature
   b. American history
   c. American art, philosophy, and religion (humanities)
   d. American social sciences

Integrated B.A./M.A. in American Studies

The American Studies Program offers an integrated B.A./M.A. program that is designed to allow academically superior baccalaureate students enrolled in the American Studies major to obtain both the B.A. and the M.A. degrees in American Studies within five years of study. The first two years of undergraduate coursework typically include the University General Education requirements and lower-level courses. In the third year, students typically take upper-division coursework in American Studies and define areas of interest. The fourth year involves graduate-level American Studies coursework including required courses in American Studies Theory and Methods (AM ST 500). The fifth and final year of the program typically consists of graduate coursework in American Studies including Seminar (AM ST 591) and identification of a research project that will culminate in the completion of a M.A. project (AM ST 580) or thesis (AM ST 600).
By encouraging greater depth and focus in the course of study beginning in the third undergraduate year, this program will help the student more clearly define his/her area of interest and expertise in the broad field of American Studies. As a result, long-range academic planning for exceptional students pursuing doctoral degrees or other professional goals after leaving Penn State will be greatly enhanced. For most students, the total time required to reach completion of the higher degree will be shortened by about a year. The student will have earlier contact with the rigors of graduate study and with graduate faculty. The resources of the Graduate School are accessible to students accepted into the IUG program. Students in their third and fourth year of study with IUG status benefit from their association with graduate students whose level of work parallel their own.

For the IUG American Studies B.A./M.A. degree, a minimum of 123 credits are required for the B.A. and a minimum of 30–33 credits for the M.A. (30 for non-thesis; 33 for thesis). Twelve credits at the 400 level or higher, in consultation with the adviser, can apply to both the B.A. and M.A. degrees; at least 6 of these 12 credits must be at the 500 level.

If for any reason a student admitted to the B.A./M.A. program is unable to complete the requirement for the Master of Arts degree program in American Studies, the student will be permitted to receive the B.A. degree assuming all degree requirements have been satisfactorily completed.

**Admission Requirements**

The number of openings in the integrated B.A./M.A. program is limited. Admission will be selective based on specific criteria and the unqualified recommendation of faculty. Applicants to the integrated program:

1. Must be enrolled in the American Studies B.A. program and meet the admission requirements of the American Studies M.A. program.
2. Must apply and be admitted to the Graduate School.
3. Shall be admitted no earlier than the beginning of the third semester of undergraduate study at Penn State (regardless of transfer or AP credits accumulated prior to enrollment) and no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree, as specified in the proposed IUG plan of study.
4. Must have completed at least one 400-level American Studies course (AM ST prefix) with a grade of A.
5. Must submit transcript(s) of previous undergraduate work, recommendations from two faculty members, writing sample, and statement of goals.
6. Must have an overall GPA at or above 3.3 (on a 4.0 scale) in undergraduate coursework and a GPA at or above 3.5 in all coursework completed for the American Studies major.
7. Must present a plan of study approved by the student’s adviser in the application process.

**Course Load**

As many as 12 of the credits required for the master’s degree may be applied to both undergraduate and graduate degree programs. The courses to be double counted are:

- AM ST 491W (two seminars on different topics)—6 credits during the student’s fourth (senior) year
- AM ST 500 –3 credits during the student’s fourth (senior) year
- AM ST 591—3 credits during the student’s fifth year

With the approval of the student’s adviser, students may take American Studies courses from the 100 to 400 levels at Penn State campuses other than Harrisburg, but 500-level courses must be taken at the Harrisburg campus.

**Sample Sequence of Coursework**

A typical sequence of coursework for the integrated program would appear as follows (AM ST 491W, AM ST 500, and AM ST 591 are applied to both undergraduate and graduate degree programs):

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<th>YEAR</th>
<th>FALL</th>
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<td>AM ST 100</td>
<td>3 AM ST supporting course</td>
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<td></td>
<td>AM ST supporting course</td>
<td>3 400-level AM ST course</td>
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<td></td>
<td>BA Requirement: Other Cultures</td>
<td>3 400-level AM ST course</td>
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<td>BA Requirement: Knowledge Domain</td>
<td>3 Elective</td>
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<td>4th (Senior)</td>
<td>5th (Graduate)</td>
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<td>AM ST 491W*</td>
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<td>AM ST 491W*</td>
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</table>

*Satisfies requirements for both the undergraduate and graduate program for a total of 12 credits

As stated in the Graduate Bulletin, a minimum grade-point average of 3.00 for work done at the University is required for graduation and to maintain good academic standing. See http://bulletins.psu.edu/bulletins/whitebook/degree_requirements.cfm?section=masters.

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Spring Semester 2013

Blue Sheet Item #: 42-01-026

Review Date: 08/20/13

UCA Revision #2: 7/26/07

AB

Art

Abington College (ARTAB)
University Park, College of Arts and Architecture (ARTBA)

PROFESSOR GRAEME SULLIVAN, Director, School of Visual Arts

The B.A. degree in art provides a comprehensive liberal education coupled with professional resident instruction in art. Depending on each student's objectives and course choices, this degree provides preparation for a professional career, a foundation for graduate studies, or a liberal arts education in art. Each student must elect an area of concentration from one of the following: ceramics, drawing and painting, new media, photography, printmaking, or sculpture.

For a B.A. degree in Art, a minimum of 120 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(6 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR. See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in REQUIREMENTS FOR THE MAJOR)

**UNITED STATES CULTURES AND INTERNATIONAL CULTURES:**
(Included in ELECTIVES or GENERAL EDUCATION course selection)

**WRITING ACROSS THE CURRICULUM:**
(Included in REQUIREMENTS FOR THE MAJOR)

**ELECTIVES:** 5 credits

**BACHELOR OF ARTS DEGREE REQUIREMENTS:** 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

**REQUIREMENTS FOR THE MAJOR:** 52 credits
(This includes 6 credits of General Education GA courses.)

**PRESCRIBED COURSES** (16 credits)[1]
ART 011S(1), ART 110S(3), ART 111(3) (Sem: 1-2)
ART 122Y US(3) (Sem: 1-4)
ART H 111 GA;IL(3), ART H 112 GA;IL(3) (these credits may also be counted toward the General Education Arts requirement) (Sem: 1-4)

**ADDITIONAL COURSES** (15 credits)[1]

**SUPPORTING COURSES AND RELATED AREAS** (21 credits)
(Include at least 15 credits at the 300 or 400 level.)
Select 15 credits from one of the following areas of concentration: ceramics, drawing and painting, new media, photography, printmaking, and sculpture[1] (Sem: 3-8)
Select 6 credits in art history (Sem: 1-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2015

Blue Sheet Item #: 44-01-028

Review Date: 09/15/2015

AA

**Biology**

*Abington College (BIOAB)*
*Altoona College (BIOAL)*
*Berks College (BIOBL)*
*Capital College (BIOCA)*
*University Park, Eberly College of Science (BIOL)*
*University College, Penn State Brandywine, Penn State Schuylkill, Penn State York (BIOCC)*

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

*Carla Hass, Person-In-Charge*

The curriculum in Biology is planned for preparation for professions requiring competence in biological science or for gaining an understanding of the world of living things. The professional group includes students who intend to secure advanced degrees through graduate study, students who are interested in work with various governmental agencies or industries having biological responsibilities, and students who want to prepare for careers in medicine or other health-related professions. Students whose interests are not professional select the curriculum because its broad approach can result in an educated view of the structure and function of living things. Achievement of these goals, including a special interest in a particular area of biology, can be met by selecting one of five options offered by the Department of Biology that will lead to the B.S. degree in Biology. The options and their key areas are 1) Plant
Biology--morphology, systematics, and physiology of plants and fungi; 2) Ecology--behavior, and population and community biology of plants and animals; 3) General Biology--all aspects of modern biology; 4) Genetics and Developmental Biology--genetics, genetic engineering, and plant and animal development; 5) Neuroscience--development, biochemistry, physiology and aging of the central and peripheral nervous system; 6) Vertebrate Physiology--pre-medicine, pre-dentistry, pharmacology, and animal physiology.

In order to be eligible for entrance to the Biology major, a student must have: 1) attained at least a 2.00 cumulative grade point average; 2) completed BIOL 110 GN(4), CHEM 110 GN(3), MATH 140 GQ(4), and earned a grade of C or better in each of these courses; and 3) completed at least one of the following courses with a grade of C or better: BIOL 220W GN(4), BIOL 230W GN(4), or BIOL 240W GN(4).

TO VIEW THE Biology Minor (BIOL)

For the B.S. degree in Biology, a minimum of 124 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(15 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in GENERAL EDUCATION course selection)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

REQUIREMENTS FOR THE MAJOR: 94 credits
(This includes 15 credits of General Education courses: 9 credits of GN courses; 6 credits of GQ courses.)

COMMON REQUIREMENTS FOR MAJOR (ALL OPTIONS): 40-44 credits

PRESCRIBED COURSES (32 credits)
CHEM 110 GN(3)[1], CHEM 111 GN(1), CHEM 112 GN(3)[1], CHEM 113 GN(1), MATH 140 GQ(4)[1], MATH 141 GQ(4) (Sem: 1-2)
BIOL 110 GN(4)[1], BIOL 220W GN(4)[1], BIOL 230W GN(4)[1], BIOL 240W GN(4)[1] (Sem: 1-4)

ADDITIONAL COURSES (8-12 credits)
PHYS 250 GN(4), PHYS 251 GN(4); or PHYS 211 GN(4), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2) (Sem: 5-6)

REQUIREMENTS FOR THE OPTION: 50-54 credits

ECOLOGY OPTION: (50-54 credits)

ADDITIONAL COURSES (30-33 credits)
CHEM 202(3), CHEM 203(3); or CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
Select 3-4 credits from STAT 200 GQ(4) or STAT 240 GQ(3) or STAT 250 GQ(3) (Sem: 3-4)
Select 3 credits from STAT 462(3) or STAT 464(3) (Sem: 7-8)

Select a minimum of 18 credits of 400-level biology courses, with at least 3 credits from each of the following groups (courses in Group IV--except BIOL 496, SC 295, SC 395, SC 495--may be used to satisfy requirements in other groups) (Sem: 5-8)

Group I: BIOL 412(3), BIOL 419(3), BIOL 435(3), BIOL 436(3), BIOL 444(3), BIOL 450W(3-5), BIOL 463(3), BIOL 482(3-4), BIOL 499A IL(3)

Group II: BIOL 414(3), BIOL 427(3), BIOL 428(3), BIOL 429(3), BIOL 448(3), BIOL 464(3), BIOL 474(3)

Group III: BIOL 406(3), BIOL 415(3), BIOL 417(4), BIOL 446(3), PPEM 425(4)

Group IV: BIOL 414(3), BIOL 417(4), BIOL 419(3), BIOL 444(3), BIOL 448(3), BIOL 450W(3-5), BIOL 482(3-4), BIOL 496(3), BIOL 499A IL(3), PPEM 425(4), SC 295(1-3), SC 395(1-3), SC 495(1-3) (A maximum of 3 credits of BIOL 496 or 4 credits of SC 295, SC 395, SC 495 may be used to fulfill the 18-credit minimum in the 400-level biology course requirement.)
SUPPORTING COURSES AND RELATED AREAS (17-24 credits)
Select 17-24 credits from department list (Sem: 1-8)

GENERAL BIOLOGY OPTION: (50-54 credits)

ADDITIONAL COURSES (24-27 credits)
CHEM 202(3), CHEM 203(3); or CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
Select 3-4 credits from STAT 200 GQ(4), STAT 240 GQ(3), or STAT 250 GQ(3) (Sem: 3-4)

Select a minimum of 18 credits of 400-level biology courses, with at least 3 credits from each of the following groups (each course may be used to satisfy a requirement in only one group) (Sem: 5-8)


SUPPORTING COURSES AND RELATED AREAS (23-30 credits)
Select 23-30 credits from department list (Sem: 1-8)

GENETICS AND DEVELOPMENTAL BIOLOGY OPTION: (50-54 credits)

PRESCRIBED COURSES (19 credits)
CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
BIOL 322(3), BIOL 430(3) (Sem: 5-6)
B M B 401(2), B M B 402(3) (Sem: 5-8)

ADDITIONAL COURSES (17-21 credits)
Select 2-5 credits from MATH 220 GQ(2-3), MATH 231(2), MICRB 201(3), MICRB 202(2) (Sem: 3-6)
Select 3-4 credits from STAT 200 GQ(4), STAT 240 GQ(3), STAT 250 GQ(3), or STAT 319(3) (Sem: 5-6)

Select a minimum of 12 credits of 400-level courses, with at least 6 credits from Group I, 3 credits from Group II, and 3 credits from Group III (Sem: 5-8)


Group III -- B M B 442(3), PPEM 425(4), SC 295(1-3), SC 395(1-3), SC 495(1-3)

SUPPORTING COURSES AND RELATED AREAS (10-18 credits)
Select 10-18 credits from department list (Sem: 1-8)

NEUROSCIENCE OPTION: (50-54 credits)

PRESCRIBED COURSES (19 credits)
B M B 401(2), B M B 402(3) (Sem: 5-8)
BIOL 469(3), BIOL 470(3) (Sem: 5-8)
CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
ADDITIONAL COURSES (15-16 credits)
Select 3-4 credits from STAT 200 GQ(4), STAT 240 GQ(3), or STAT 250 GQ(3) (Sem: 3-4)

Select a minimum of 12 credits of 400-level biology courses, with at least 6 credits from Group I, 3 credits from Group II, and 3 credits from Group III (Sem: 5-8)

Group I -- B M B 400(2-3), BIOL 404(3), BIOL 409(3), BIOL 411(3), BIOL 413(3), BIOL 421(4), BIOL 426(3), BIOL 430(3), BIOL 437(4), BIOL 443(3), BIOL 460(3), BIOL 471(3), BIOL 472(3), BIOL 473(2), BIOL 479(3) (may select up to 6 credits from department list)


SUPPORTING COURSES AND RELATED AREAS (15-20 credits)
Select 15-20 credits from department list (Sem: 1-8)

PLANT BIOLOGY OPTION: (50-54 credits)

PRESCRIBED COURSES (22 credits)
CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
B M B 401(2), B M B 402(3), BIOL 407(3), BIOL 414(3), BIOL 441(3) (Sem: 5-8)

ADDITIONAL COURSES (12-13 credits)
Select 3-4 credits from STAT 200 GQ(4), STAT 240 GQ(3), or STAT 250 GQ(3), or an advanced statistics course (Sem: 3-4)

Select a minimum of 9 credits of 400-level biology courses, with at least 6 credits from Group I and 3 credits from Group II (Sem: 5-8)


Group II -- BIOL 400(1-3), BIOL 414(3), BIOL 419(3), BIOL 439(3), BIOL 444(3), BIOL 448(3), BIOL 450W(3-5), BIOL 461(3), BIOL 496(1-3), BIOL 499A IL(3), SC 295(1-3), SC 395(1-3), SC 495(1-3)

SUPPORTING COURSES AND RELATED AREAS (15-20 credits)
Select 15-20 credits from department list (Sem: 1-8)

VERTEBRATE PHYSIOLOGY OPTION: (50-54 credits)

PRESCRIBED COURSES (18 credits)
CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-4)
B M B 401(2), B M B 402(3), BIOL 472(3), BIOL 473(2) (Sem: 5-8)

ADDITIONAL COURSES (15-16 credits)
Select 3-4 credits from STAT 200 GQ(4), STAT 240 GQ(3), or STAT 250 GQ(3) (Sem: 5-8)

Select a minimum of 12 credits of 400-level courses, with at least 6 credits from Group I, 3 credits from Group II, and 3 credits from Group III (Sem: 5-8)

Group I -- BIOL 404(3), BIOL 406(3), BIOL 409(3), BIOL 411(3), BIOL 412(3), BIOL 413(3), BIOL 416(3), BIOL 421(4), BIOL 426(3), BIOL 430(3), BIOL 432(3), BIOL 437(4), BIOL 443(3), BIOL 446(3), BIOL 460(3), BIOL 469(3), BIOL 470(3), BIOL 471(3), BIOL 479(3) (may select up to 6 credits from department list)


SUPPORTING COURSES AND RELATED AREAS (16-21 credits)
Select 16-21 credits from department list (Sem: 1-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2007

Blue Sheet Item #: 35-06-520
FINANCIAL SERVICES OPTION CURRENTLY ON HOLD at PENN STATE Brandywine;
NOT ACCEPTING NEW STUDENTS
Begin Date of Enrollment Hold: October 16, 2013

Business

Abington College (BSBAB)
Altoona College (BSBAL)
Berks College (BSBBL)
University College (BSBCC): Penn State Beaver, Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Greater Allegheny, Penn State Hazleton, Penn State Lehigh Valley, Penn State Mont Alto, Penn State New Kensington, Penn State Schuylkill, Penn State Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York
University College (BSBIC) via the World Campus

The Bachelor of Science in Business (B.S.B.) is a professionally oriented business degree program that combines the theoretical underpinnings of core business disciplines, notably management, marketing, finance, and supply chain management, with applied study in a practical setting. Through the choice of an 18-credit option, students specialize in a key business sector. Students also develop written and oral communication skills throughout the program, acquire contemporary technology skills, and engage in active and collaborative learning. The degree allows students to become familiar with the unique business environments of their local communities, a design that sets the degree apart from other business degrees offered within the University and throughout the Commonwealth.

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

ACCOUNTING OPTION: This option prepares students to pursue careers in business with an emphasis on the areas of financial and managerial accounting, systems and controls, auditing, and taxation.

ENTREPRENEURSHIP OPTION: This option prepares students to pursue entrepreneurial careers with emphasis on idea generation, opportunity analysis, new product creation, and business plan development.

FINANCIAL SERVICES OPTION: This option prepares students to pursue careers in financial organizations with emphasis on wealth management, tax planning, risk management, and financial analysis.

HEALTH SERVICES OPTION: This option prepares students to pursue careers in the health services sector with emphasis on the financial and administrative aspects of health care enterprises.

INDIVIDUALIZED BUSINESS OPTION: This option provides the opportunity for students to pursue an approved business-focused interdisciplinary program of study.

MANAGEMENT AND MARKETING OPTION: This option prepares students to pursue careers in business organizations with an emphasis on the skills and knowledge necessary for the business professional to function in community and regional centers of commerce.

Entrance Requirement: Completion of MATH 022 or MATH 040, 041, 110, 140.

For the B.S. degree in Business, a minimum of 120 credits is required, 15 of which must be at the 400 level.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(12 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in front of Bulletin.)

FIRST-YEAR SEMINAR: 
UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 10 credits

REQUIREMENTS FOR THE MAJOR: 77 credits
(This includes 12 credits of General Education courses: 6 credits of GQ courses; 6 credits of GS courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 59 credits

PRESCRIBED COURSES (41 credits)
ECON 102 GS(3) (Sem: 1-4)
ACCTG 211(4), ECON 104 GS(3), MIS 204(3) (Sem: 3-4)
B A 321(3)[1], B A 322(3)[1], B A 420(1)[1], FIN 301(3)[1], MGMT 301(3)[1], MKTG 301(3)[1], SCM 301(3)[1]
(Sem: 5-6)
I B 303 IL(3)[1] (Sem: 5-8)
B A 421(3)[1], B A 422W(3)[1] (Sem: 7-8)

ADDITIONAL COURSES (15-18 credits)
MATH 110 GQ(4) or MATH 140 GQ(4) (Sem: 1-4)
SCM 200 GQ(4) or STAT 200 GQ(4) (Sem: 1-4)
B A 243(4) or B A 241(2) and B A 242(2) (Sem: 3-4)
Select 3 or 6 credits from B A 495A(3 or 6)[1], B A 495B(3 or 6)[1] (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS (0-3 credits)
Select 0-3 credits from 400-level business courses from: ACCTG, B A, ECON, ENTR, FIN, FINSV, H P A, I B, MGMT, MIS, MKTG, R M, or SCM[1] (Sem: 7-8)

REQUIREMENTS FOR THE OPTION: 18 credits [1]
ACCOUNTING OPTION: (18 credits)

PRESCRIBED COURSES (9 credits)
ACCTG 404(3), ACCTG 471(3), ACCTG 472(3) (Sem: 5-6)

ADDITIONAL COURSES (6 credits)
ACCTG 403(3) or 403W(3) (Sem: 7-8)
ACCTG 405(3) or FINSV 411(3) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS (3 credits)
Select 3 credits of 400-level courses from: ACCTG, B A, ECON, ENTR, FIN, FINSV, H P A, I B, MGMT, MIS, MKTG, R M, or SCM (Sem: 7-8)

ENTREPRENEURSHIP OPTION: (18 credits)

PRESCRIBED COURSES (9 credits)
ENTR 300(3), ENTR 320(3) (Sem: 5-6)
ENTR 400(3) (Sem: 7-8)

ADDITIONAL COURSES (0-3 credits)
Select 0-3 credits in CAS 352(3) or ENGL 419(3) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS (6-9 credits)
Select 6 to 9 credits of 400-level ENTR courses in consultation with your advisor (Sem: 5-8)

FINANCIAL SERVICES OPTION: (18 credits)

PRESCRIBED COURSES (3 credits)
FIN 420(3) (Sem: 5-8)

ADDITIONAL COURSES (3 credits)
Select 3 credits from ACCTG 405 or FINSV 411 (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (12 credits)
Select 12 credits in 300 or 400-level (with at least 3 credits at the 400-level) from ACCTG, FIN, FINSV or RM (Sem: 5-8)

HEALTH SERVICES OPTION: (18 credits)
(Minimum 6 credits at the 400-level)

**PRESCRIBED COURSES** (6 credits)
H P A 101(3) (Sem: 5-6)
H P A 332(3) (Sem: 5-8)

**ADDITIONAL COURSES** (0-3 credits)
Select 0-3 credits from BB H 302(3), CAS 352(3), CAS 404(3), ENGL 416(3), ENGL 419(3), LER 424(3), LER 472(3), PSYCH 281 GS(3), PSYCH 484(3), or PSYCH 485(3) (Sem: 5-8)

**SUPPORTING COURSES AND RELATED AREAS** (9-12 credits)
Select 3-9 credits from 300 or 400-level H P A courses (Sem: 5-8)
Select 0-6 credits of 300-400-level courses from ACCTG, B A, ECON, ENTR, FIN, FINSV, H P A, I B, MGMT, MKTG, MIS, R M or SCM (Sem: 6-8)

**INDIVIDUALIZED BUSINESS OPTION:** (18 credits)
Select 18 credits of study (with at least 3 credits at the 400-level) as submitted by the student and approved by the campus BSB Program Coordinator (Sem: 5-8)

**MANAGEMENT AND MARKETING OPTION:** (18 credits)

**ADDITIONAL COURSES** (0-6 credits)
Select 0-6 credits from the following: B A 250(3), ENGL 419(3), MKTG 220(3) or one of the following, CAS 250(3), CAS 252(3), CAS 352(3), CAS 404(3) (Sem: 5-8)

**SUPPORTING COURSES AND RELATED AREAS** (12-18 credits)
A minimum of 3 credits of supporting courses must be selected at the 400-level.
Select 3 credits from 300 or 400-level MGMT courses (Sem: 5-8)
Select 3 credits from 300 or 400-level MKTG courses (Sem: 5-8)
Select 6-12 additional credits in 300 or 400-level courses from MGMT or MKTG courses (Sem: 6-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2013

Blue Sheet Item #: 42-04-065
Review Date: 01/14/2014
UCA Revision #1: 8/3/06

**Comments**

**Childhood and Early Adolescent Education**

*Penn State Abington*
*Penn State Altoona*
*Penn State Berks*
*Penn State Erie, The Behrend College*
*University College: Penn State Lehigh Valley*
*University Park, College of Education (CEAED)*

**PROFESSOR STEPHANIE SERRIERE, Director**

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

**CHILDHOOD AND EARLY ADOLESCENT EDUCATION.** Students successfully completing this major will have met all of the requirements for the PK-4, ENGLISH EDUCATION 4-8, MATHEMATICS EDUCATION 4-8, or SOCIAL STUDIES EDUCATION 4-8 College Instructional 1 certificate issued by the Pennsylvania Department of Education. Students must apply for admission to the major. Students interested in the major should contact their advisor and enroll in a C I 295 field experience, which features participation in the classroom.

Baccalaureate degree candidates must meet the following requirements 1-3 by the end of their third semester:
1. A minimum cumulative grade point average of 3.00.
2. Satisfaction of any basic-skills or entrance testing requirements as specified by the Pennsylvania Department of Education in force at the time of application for entrance to the major.
Requirements 3-8 must be met by the end of the fourth semester when students typically participate in the Entrance to Major process.

3. A grade of "C" or better in all specified courses.
4. Completion of an early field experience specified by the certification program.
5. Completion of a core of Education courses specified by the certification program.
6. Completion of additional credits as specified by the certification program.
7. Completion of at least 48 semester credit hours, including ENGL 015 GWS(3) or ENGL 030 GWS(3), six credits of quantification, and three credits of natural science, as well as three credits of literature for Early Education PK-4 Option, three credits of literature for Mathematics Education 4-8 Option, three credits of literature for Social Studies 4-8 Option or six credits of literature for English Education 4-8 Option.
8. Approval from the professional education adviser or the head of the pertinent certification program.

For the B.S. degree in Education with an option in Early Education PK-4, a minimum of 127 credits is required; with an option in English 4-8, a minimum of 128 credits is required; with an option in Mathematics Education 4-8, a minimum of 126 credits is required; or with an option in Social Studies Education 4-8, a minimum of 127 credits is required. (See also Teacher Education Programs.)

GENERAL EDUCATION: 45 credits
(27 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST YEAR SEMINAR:
(Include in GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Include in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Include in REQUIREMENTS FOR THE MAJOR)

REQUIREMENTS FOR THE MAJOR: 109-115 credits [1]
(This includes 27 credits of General Education courses: Early Education PK-4 Option – 6 credits of GH courses, 9 credits of GN courses, 6 credits of GQ courses, 6 credits of GS courses. English 4-8 Option – 6 credits of GH courses, 9 credits of GN courses, 6 credits of GQ courses, 6 credits of GS courses. Social Studies 4-8 Option – 6 credits of GH courses, 9 credits of GN courses, 6 credits of GQ courses, 6 credits of GS courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 64-65 credits

PRESCRIBED COURSES (55 credits)
C I 280 GH(3), EDPSY 014(3), EDFTHP 115 US(3), MATH 200 GQ(3) (Sem: 1-4)
C I 495D(12), C I 495F(3), KINES 126(1.5), KINES 127(1.5), LL ED 400(3), LL ED 401(3), LL ED 402(3), MTHED 420(3), SCIED 458(3), SPLED 400(4), SPLED 403A(3), SS ED 430W(3) (Sem: 5-8)

ADDITIONAL COURSES (6-7 credits)
STAT 100 GQ(3), STAT 200 GQ(4), or EDPSY 101 GQ(3) (Sem: 1-4)
Any MATH GQ course (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (3 credits)
Select 3 credits in literature (GH) (Sem: 1-4)

REQUIREMENTS FOR THE OPTION: 45-46 credits

EARLY EDUCATION PK-4 OPTION: (45 credits)

PRESCRIBED COURSES (21 credits)
C I 295A(3), HD FS 229 GS(3) (Sem: 3-4)
A ED 303(3), C I 495A(3), E C E 451(3), E C E 479(3), MUSIC 241(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (24 credits)
Select 3 credits of Economic Geography (GS;US;IL) (Sem: 1-4)
Select 3 credits of US History (GS;US;IL) (Sem: 1-4)
Select 9 credits: 3 credits each (including one course with a lab) from biological science, earth science, and physical science (GN courses) (Sem: 1-6)
Select 3 credits related to families and relationships from:
Select 6 credits of educational selections from:
ENGLISH EDUCATION 4-8 OPTION: (46 credits)

PRESCRIBED COURSES (19 credits)
C I 295B(3), HD FS 239 GS(3), SOC 119 GS;US(4) (Sem: 1-4)
C I 495B(3), LL ED 412W(3), LL ED 450(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (27 credits)
Select 9 credits: 3 credits each (including one course with a lab) from biological science, earth science, and physical science (GN courses) (Sem: 1-6)

Select 3 credits of British Literature from:
ENGL 221(3), ENGL 222(3), ENGL 440(3), ENGL 441(3), ENGL 442(3), ENGL 443(3), ENGL 444(3), ENGL 445(3), ENGL 446(3), ENGL 447(3), ENGL 448(3), ENGL 449 US;IL(3), ENGL 450(3), ENGL 451(3), ENGL 452(3), ENGL 453(3), ENGL 454(3), ENGL 455(3), ENGL 456(3), ENGL 457(3), or ENGL 458(3) (Sem: 1-6)

Select 3 credits of American Literature from:
ENGL 231 GH(3), ENGL 232 GH(3), ENGL 432(3), ENGL 433(3), ENGL 434(3), ENGL 435(3), ENGL 436(3), ENGL 437(3), ENGL 438(3), or ENGL 439(3) (Sem: 1-6)

Select 3 credits of Comparative Literature from:

Select 3 credits of Writing from:
ENGL 212(3), ENGL 213(3), ENGL 215(3), ENGL 281(3), ENGL 412(3), ENGL 413(3), ENGL 414(3), or ENGL 415(3) (Sem: 1-6)

Select 6 credits of Media Literacy from:

MATHEMATICS EDUCATION 4-8 OPTION: (50 credits)

PRESCRIBED COURSES (35 credits)
C I 295B(3), HD FS 239 GS(3), MATH 140(4), MATH 141(4), MATH 201 GQ(3) (Sem: 1-4)
MATH 311W(3) (Sem: 4-6)
MTHED 428(3), MTHED 429(3) (Sem: 5-6)
MTHED 431(3), MTHED 433(3) (Sem: 6-7)
C I 495B(3) (Sem: 7)

COURSES AND RELATED AREAS (15 credits)
Select 9 credits: 3 credits each (including one course with a lab) from biological science, earth science, and physical science (GN courses) (Sem: 1-6)
Select 3 credits from humanities GH (Sem: 1-3)
Select 3 credits from social and behavioral sciences GS (Sem: 1-3)

SOCIAL STUDIES 4-8 OPTION: (45 credits)

PRESCRIBED COURSES (24 credits)
C I 295B(3), PL SC 001 GS(3), HIST 020 GH;US(3), GEOG 010 GN(3), GEOG 020 GS;US;IL(3), HD FS 239 GS(3) (Sem: 1-6)
C I 495B(3), LL ED 412W(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
Select 6 credits: 3 credits each (including one course with a lab) from biological science, and physical science (GN courses) (Sem: 1-6)
Select 15 credits from social sciences with at least 6 credits taken at the 100-level or above
At least 3 credits in Economic Policy Issues (Sem: 3-8)
At least 6 credits in Civics and Society (Sem: 3-8)
At least 6 credits in Historical and Geographical Perspectives (Sem: 3-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2015
Corporate Communication

Abington College (CCBA)
University College: Penn State Fayette, Penn State Hazleton, Penn State Lehigh Valley, Penn State Schuylkill, Penn State Wilkes-Barre, Penn State Worthington Scranton (CCCC)

PROFESSOR THOMAS R. SMITH, Head, Division of Arts and Humanities

Building on the interdisciplinary strengths of Penn State Abington, the Corporate Communication B.A. program prepares students for public information and media relations positions in profit and non-profit organizations. The program is distinguished by its cross-disciplinary course work in business, information systems, human behavior, and oral, written, and visual communication. In addition, there is a required field experience. The B.A. provides a broad foundation in business principles, including team projects and problem solving; ethics; oral, written and visual communication skills; and psychology. The major is designed to prepare students for a variety of career fields including human resources, public relations, training and development, and public information.

For the B.A. degree in Corporate Communication, a minimum of 120 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(See description of General Education in this bulletin)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES or GENERAL EDUCATION courses)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 0-15 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 51-53 credits[1]

PRESCRIBED COURSES (24 credits)
IST 110 GS(3) (Sem: 1-2)
COMM 100 GS(3) (Sem: 1-4)
MKTG 301(3), MGMT 301(3) (Sem: 3-4)
CC 401(3), CC 402(3) (Sem: 5-8)
CC 403W(3), CC 495A(3) (Sem: 7-8)

ADDITIONAL COURSES (27-29 credits)
ACCTG 211(4) or ECON 102(3) or ECON 104(3) (Sem: 1-4)
B A 243(4) or PHIL 103 GH(3) (Sem: 1-4)
MIS 204(3) or PSYCH 100(3) (Sem: 1-4)
IST 250(3) or ENGL 420(3) (Sem: 3-6)
MGMT 321(3) or PSYCH 221 GS(3) (Sem: 3-6)
CAS 252(3) or CAS 352(3) (Sem: 5-8)
ENGL 417(3) or ENGL 419(3) (Sem: 5-8)
MKTG 310(3) or ENGL 211(3) (Sem: 5-8)
Students receiving a baccalaureate degree in criminal justice should understand each of the three main components of the criminal justice system and their interrelationships, be able to evaluate critically both current and future crime control policy proposals and criminal justice research, and understand the complexity of the crime phenomenon and its relationship to individual, social, and cultural factors. This major includes study in law enforcement, courts and corrections individually and as components of a system, plus work in theories of crime causation, and crime control policy. Students should expect reading, writing, and critical thinking skills to be rigorously applied and developed throughout the degree program. The Bachelor of Arts degree in Criminal Justice provides a broadly based liberal arts background for the study of crime, justice and the criminal justice system. The Bachelor of Science degree offers an opportunity for educational enrichment in fields not traditionally considered part of the liberal arts. Either degree is excellent preparation for a career in criminal justice, graduate, or professional study, or informed citizenship.

For the B.A. degree in Criminal Justice, a minimum of 124 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(10-13 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 20-24 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 48 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 48 credits\[1\]
(This includes 10-13 credits of General Education courses: 0-3 credits of GH courses; 4 credits of GQ courses; 6 credits of GS courses.)

PRESCRIBED COURSES (36 credits)
CRIMJ 100(3), SOC 012 GS(3), SOC 119 GS;US(4), SOC 207(3), STAT 200 GQ(4) (Sem: 1-4)
CRIMJ 210(3), CRIMJ 220(3), CRIMJ 230(3), CRIMJ 290(1)(Sem: 3-6)
CRIMJ 441(3), CRIMJ 450W(3), CRIMJ 495(3) (Sem: 5-8)

ADDITIONAL COURSES (12 credits)
Criminal Justice

Abington College (CJSAB)
Altoona College (CJBS)
Penn State Berks (CJSBL)

Students receiving a baccalaureate degree in criminal justice should understand each of the three main components of the criminal justice system and their interrelationships, be able to evaluate critically both current and future crime control policy proposals and criminal justice research, and understand the complexity of the crime phenomenon and its relationship to individual, social, and cultural factors. This major includes study in law enforcement, courts and corrections individually and as components of a system, plus work in theories of crime causation, and crime control policy. Students should expect reading, writing, and critical thinking skills to be rigorously applied and developed throughout the degree program. The Bachelor of Arts degree in Criminal Justice provides a broadly based liberal arts background for the study of crime, justice and the criminal justice system. The Bachelor of Science degree offers an opportunity for educational enrichment in fields not traditionally considered part of the liberal arts. Either degree is excellent preparation for a career in criminal justice, graduate, or professional study, or informed citizenship.

For the B.S. degree in Criminal Justice, a minimum of 124 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(10-13 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 32-36 credits

REQUIREMENTS FOR THE MAJOR: 60 credits[1]
(This includes 10-13 credits of General Education courses: 0-3 credits of GH courses; 4 credits of GQ courses; 6 credits of GS courses.)

PRESCRIBED COURSES (36 credits)
CRIMJ 100(3), SOC 012 GS(3), SOC 119 GS;US(4), SOC 207(3), STAT 200 GQ(4) (Sem: 1-4)
CRIMJ 210(3), CRIMJ 220(3), CRIMJ 230(3), CRIMJ 290(1)(Sem: 3-6)
CRIMJ 441(3), CRIMJ 450W(3), CRIMJ 495(3) (Sem: 5-8)

ADDITIONAL COURSES (12 credits)
PHIL 103 GH(3) or CRIMJ 465(3) (Sem: 1-4)
Select 9 credits from any 400-level CRIMJ course that does not already fulfill another requirement in the major. (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (12 credits)
Select 12 credits, in consultation with the adviser, in one or two of the following skill enhancement areas: accounting, computers, composition and rhetoric, counseling, education, law and legal studies, foreign language, management, public speaking, research methods and statistics, science and engineering, biobehavioral health; or in the following topics: adolescence, deviant behavior, drugs, minorities (Sem: 3-6)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2009

Blue Sheet Item #: 37-06-011

Review Date: 4/14/09

UCA Revision #1: 8/3/06

UCA Revision #2: 7/27/07

AL

English

Abington College (ENGAB)
Altoona College (ENGAL)
University College (ENGCC): Penn State Brandywine, Penn State Greater Allegheny, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York
University Park, College of the Liberal Arts (ENGL)

PROFESSOR Mark Morrisson, Department Head

Majors explore the imaginative and practical uses of English through courses in literature, writing, rhetoric, and language. They develop perspectives on human nature and cultural values through American, British, and other English literatures; they learn how to gather, analyze, synthesize, and communicate information; they gain mastery over their language. These skills help English majors find careers in such fields as publishing, business, industry, government, and teaching. English majors often go on to postgraduate study not only in English but in such areas as law, business, education, or other liberal disciplines.

Majors can emphasize writing, literature, or rhetoric, or a mix of literature, writing, and rhetoric. All provide a liberal education and all develop analytic and writing skills. Qualified students may participate in the career internship and in the English honors program.

Students interested in earning certification in secondary education should contact the College of Education, Department of Curriculum and Instruction. (See also Teacher Education Programs.)

For the B.A. degree in English, a minimum of 123 credits is required.

Per Senate Policy 83-80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. For more information, check the Recommended Academic Plan for your intended program.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(See description of General Education in front of Bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 18 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in front of Bulletin.)
REQUIREMENTS FOR THE MAJOR: 36 credits

ADDITIONAL COURSES (18 credits)
Select 3 credits from ENGL 200(3) or ENGL 201 GH(3) (Sem: 1-6)
Select 3 credits of a 300/400-level course in each of the following areas:
Medieval through Sixteenth Century (Sem: 1-8)
Sixteenth Century through Eighteenth Century (Sem: 1-8)
The Nineteenth Century (Sem: 1-8)
The Twentieth Century to the Present (Sem: 1-8)
Select 3 credits from ENGL 310H(3) or ENGL 487W(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (18 credits)
In consultation with adviser, select 18 credits in literature, writing, or rhetoric (Sem: 1-8)
(At least 9 credits must be at the 300/400 level)

At least 3 of the 300/400 level credits must fulfill a departmental diversity requirement for a course related to race, gender, sexuality, disability, ethnicity, and/or postcolonial issues).

Integrated B.A./M.A. Program in English

The BA in English requires a minimum of 123 credits, with 36 of those credits required for the English major-3 credits of English 200, 3 credits of English 201, 3 credits of English 221, 18 credits of English 300 level or above, 3 credits of pre-1800 300 level or above, 3 credits of post-1800 race, ethnic, or minority literatures 300 level or above, 3 credits of English 487W, senior seminar.

The B.A./M.A. consists of these 36 English credits of the B.A., plus an additional 24 English credits of M.A. work distributed as follows: 12 credits of English 512, 513, or 515. English 512, 513, and 515 can be repeated for credit. In addition, students will take 6 credits of a graduate-level literature and 6 credits of M.A. Master’s paper, 596, to support work on a major project that will be the centerpiece of each student’s culminating Master’s paper. In the Master’s paper, students receiving an M.A. in English with a creative writing concentration will append their Master’s paper with a bibliographic essay referencing primary and/or secondary sources generated by their research for the paper. The essay can discuss the range of research modalities, including contextual background in the work itself as well as contemporary and historic literature that has influenced the style and form of the Master’s paper. Sources consulted for contextual background can include library and database materials, historical research, oral history, interviews, and other bibliographic tools. 12 credits, 6 at the 400 level (412/413/415) and 6 at the 500 level (512/513/515), will be double counted between the B.A. and the M.A. The IUG B.A./M.A. consists of a total of 60 English credits.

A minimum of 141 credits are required to complete the IUG B.A./M.A. in English.

Time of Admission to the Program

Students shall be admitted to the English IUG program no earlier than the beginning of the third semester of undergraduate study at Penn State (regardless of transfer or AP credits accumulated prior to enrollment) and no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree, as specified in the proposed IUG plan of study.

Application to the English IUG would typically occur in the junior year after a student has completed 60 credits, enrolled in the English major, and completed two English courses in creative writing.

Admission Requirements

Admission to the integrated B.A./M.A. program will be based on the submission of a portfolio of creative work and a plan of study to the department’s Director of Graduate Studies and the Director of the B.A./M.A. program. Applications typically will be filed during the 5th or 6th semesters of study, and applicants must have achieved a minimum of 60 credits and a 3.3 overall GPA and 3.6 GPA in English to begin the program. The English Director of Graduate Studies will ensure that the applicant meets the minimum credit and GPA requirements for the program. The Director of the B.A./M.A. program will evaluate the quality of the student’s creative work and the applicant’s plan for fulfilling the requirements of the M.A. in English. The Director of the B.A./M.A. program, in consultation with the Creative Writing faculty, will have final approval for what constitutes an acceptable level of creative work and an acceptable plan for the completion of the M.A.

The application procedure requires submission of the following:

A. Support Letters from Faculty and Administrators (addressed to the department’s Director of Graduate Studies and the Director of the B.A./M.A. program)
B. A Personal Statement
C. Portfolio of Creative Work  
D. A Plan of Study  
E. A transcript and degree audit printed from e-Lion  
F. A current resume or curriculum vita  
G. A copy of the completed on-line Graduate School Application (GRE scores are not required).

Plan of Study and Advising

Prior to the application process, students should communicate their intent to enroll in the IUG to the English B.A. adviser and the Director of the B.A./M.A. program. The Director of the B.A./M.A. will help each student identify an appropriate series of English courses to properly prepare each student for the 500-level M.A. workshops and 500-level literature courses.

Students will be expected to maintain a minimum overall GPA of 3.3 for all undergraduate coursework and a GPA of 3.6 in English (ENGL) courses throughout the IUG program of study. Failure to do so will result in the student being advised that he/she must regain a GPA of 3.3 within one semester. If the GPA is not 3.3 or higher in general undergraduate coursework and 3.6 or higher in English coursework after that term, the student will be dropped from the IUG.

Each student enrolled in the B.A./M.A. will meet at the beginning of each term with the Director of the B.A./M.A. to discuss his or her progress through the M.A. degree and to make sure that he or she is following the plan established upon his or her admission to the B.A./M.A. program.

If the student decides not to continue on in the IUG, the student may, contingent on fulfilling all other requirements for the BA in English, graduate with a B.A. in English.

Sequence of Courses

The IUG B.A./M.A. consists of a total of 60 English credits. A minimum of 141 credits are required to complete the IUG B.A./M.A. in English.

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2014

Blue Sheet Item #: 43-03-103  
Review Date: 11/18/2014

Comments

LA

General Engineering (G E)

Abington College  
University College, Penn State Brandywine, Penn State DuBois, Penn State Hazleton

PROFESSOR SVEN BILÉN, Head of School of Engineering, Design, Technology and Professional Programs (SEDTAPP)  
PROFESSOR IVAN E. ESPARRAGOZA, Director of Engineering Technology and Commonwealth Engineering

PROFESSOR ROBERT AVANZATO, Program Coordinator, Penn State Abington  
PROFESSOR ASAD AZEMI, Program Coordinator, Penn State Brandywine  
PROFESSOR DAUDI WARYOBA, Program Coordinator, Penn State DuBois  
PROFESSOR KATHRYN W. JABLOKOW, Program Coordinator, Penn State Great Valley  
PROFESSOR WIESLAW GREBSKI, Program Coordinator, Penn State Hazleton

The General Engineering program provides students with a broad foundation in engineering with specialization in a technically and professionally relevant topic. Students must choose the Multidisciplinary Engineering Design option at Abington, Brandywine and Great Valley campuses, Applied Materials option at the DuBois campus or the Alternative Energy and Power Generation option at the Hazleton campus. From this degree program, students will acquire the ability to work as members of a team toward successful attainment of a common goal, thus preparing them to work in for-profit or nonprofit organizations, or to further their studies in graduate school. Typical employment for General Engineering graduates includes positions such as engineer, product engineer, process engineer, manufacturing engineer, development engineer, and materials engineer. With employment opportunities such as these and others, graduates or the General Engineering program can attain professional and economically sustaining employment in their
desired regional area. This degree program develops written and oral communication skills, culminating in a
two-semester senior design course sequence consisting of a project based largely on student interest and
faculty input.

Program Educational Objectives:
The educational objectives of the General Engineering program are designed to prepare graduates who,
during the first few years of professional practice will

1. Be employed in public or private sectors in fields such as design, research and development,
   experimentation and testing, manufacturing, and technical sales.
2. Demonstrate a level of competence and expertise that may lead to an increasing level of responsibility
   and leadership within their respective organizations.
3. Communicate effectively and work collaboratively in multidisciplinary and multicultural work
   environments
4. Recognize and grow an appreciation of the global, environmental, social, and ethical contexts of their
   work.
5. Be committed to lifelong learning to enhance their careers and provide flexibility in responding to
   changing social and technical environments, which will enable graduates to pursue advanced degrees
   or certificate programs.

Program Outcomes (Student Outcomes):
Graduates of the General Engineering program shall be able to:

a) Apply knowledge of mathematics, science, and engineering
b) Design and conduct experiments, as well as to analyze and interpret data
c) Design a system, component, or process to meet desired needs within realistic constraints such as
   economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
d) Function on multidisciplinary teams
e) Identify, formulate, and solve engineering problems
f) Demonstrate an understanding of professional and ethical responsibility
g) Communicate effectively
h) Demonstrate the understanding of the impact of engineering solutions in a global, economic,
   environmental, and societal context
i) Recognize the need for, and an ability to engage in life-long learning
j) Demonstrate knowledge of contemporary issues
k) Use the techniques, skills, and modern engineering tools necessary for engineering practice.

In addition to the minimum grade point average (GPA) requirements* described in the University Policies, all
College of Engineering entrance to major course requirements must also be completed with a minimum
grade of C: CHEM 110 (GN), MATH 140 (GQ), MATH 141 (GQ), MATH 250 or MATH 251, PHYS 211 (GN) and
PHYS 212 (GN). All of these courses must be completed by the end of the semester during which the
admission to major process is carried out.

For the B.S. degree in General Engineering, a minimum of 127 credits are required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(27 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in front of Bulletin.)

FIRST-YEAR SEMINAR:
(Included in REQUIREMENTS FOR THE MAJOR.)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in GENERAL EDUCATION course selection.)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR.)

REQUIREMENTS FOR THE MAJOR: 109 credits
(This includes 27 credits of General Education courses: 9 credits of GN courses; 6 credits of GQ courses; 3
credits of GS courses; 9 credits of GWS courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 71 credits

PRESCRIBED COURSES: 45 credits
CHEM 110 GN(3)[1], CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), EDSGN 100(3), MATH 140
GQ(4) [1], MATH 141 GQ(4)[1], PHYS 211 GN(4)[1] (Sem: 1-2)
E MCH 211(3), E MCH 213(3), MATH 231(2), MATH 251(4)[1], PHYS 212 GN(4)[1], PHYS 214 GN(2) (Sem: 3-4)
ENGR 490W(1), ENGR 491W(3) (Sem: 7-8)

ADDITIONAL COURSES: 22 credits
Select 1 credit of First-Year Seminar (Sem: 1-2)
CAS 100A GWS(3) or CAS 100B GWS(3) (Sem: 1-2)
ENGL 015 GWS(3) or ENGL 030 GWS(3) (Sem: 1-2)
CMPSC 121 GQ(3) or CMPSC 201 GQ(3) (Sem: 3-4)
ECON 102 GS(3) or ECON 104 GS(3) (Sem: 3-4)
ENGR 202C GWS(3) or ENGL 202D GWS(3) (Sem: 3-4)
M E 300(3)[1] or EME 301(3)[1] (Sem: 3-4)
ENGR 350(3)[1], E MCH 407(3)[1], or E MCH 461(3)[1] (Sem: 5-6)

SUPPORTING COURSES AND RELATED AREAS: 4 credits
Select 4 credits in General Technical Electives from the program approved list.

REQUIREMENTS FOR THE OPTION: 38 credits

APPLIED MATERIALS OPTION: (38 credits)

PRESCRIBED COURSES: 38 credits
E MCH 212(3), ENGR 320(3), MATSE 201(3)[1], MATSE 400(3), MATSE 413(3), STAT 200 GQ(4) (Sem: 5-6)
ENGR 421(4), ENGR 450(3), MATSE 402(3), MATSE 411(3), MATSE 417(3), MATSE 430(3) (Sem: 7-8)

ALTERNATIVE ENERGY AND POWER GENERATION OPTION: (38 credits)

PRESCRIBED COURSES: 38 credits
E E 210(4)[1] (Sem: 3-4)
E E 314(3), EGEE 302(3), EME 303(3), M E 345(4), NUC E 401(3) (Sem: 5-6)
E E 485(3), E E 488(3), EGEE 420(3), EGEE 437(3), EGEE 438(3), EGEE 441(3) (Sem: 7-8)

MULTIDISCIPLINARY ENGINEERING DESIGN OPTION (38 credits)

PRESCRIBED COURSES: 38 credits
CMPEN 271(3), E E 210(4), E MCH 212(3)[1] (Sem: 3-4)
CMPEN 331(3), CMPEN 472(3), E E 310(4)[1], E E 352(4)[1] (Sem: 5-6)
CMPEN 454(3), EDSGN 401(3), EDSGN 410(4)[1], EDSGN 495(1), ENGR 407(3) (Sem: 7-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2011

Blue Sheet Item #: 40-03-033

Review Date: 11/08/2011

R & T: Approved 5/24/2013

History

Abington College (HSTAB)
University Park, College of the Liberal Arts (HIST)

PROFESSOR MICHAEL KULIKOWSKI, Head

This major provides a broad introduction to the history of the great civilizations of the world and specific areas of historical inquiry. Centered in one of the basic, traditional disciplines, the History major offers invaluable preparation for students interested in a career in government, international relations, law, or librarianship, as well as essential training for those interested in a professional career as an academic or public historian, archivist, or secondary school teacher. Along with the perspective on the present that a study of the past engenders, the program develops skills in research, analysis, and synthesis that have
proved useful in commerce and industry. The History major permits easy combination with minors, area studies, or even a concurrent major, providing flexibility in one's career choice.

For the B.A. degree in History, a minimum of 123 credits is required.

Per Senate Policy 83-80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. For more information, check the Recommended Academic Plan for your intended program.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

**GENERAL EDUCATION:** 45 credits
(See description of General Education in this bulletin.)

**FIRST-YEAR SEMINAR:**
(Included in ELECTIVES or GENERAL EDUCATION course selection)

**UNITED STATES CULTURES AND INTERNATIONAL CULTURES:**
(Included in ELECTIVES or GENERAL EDUCATION course selection)

**WRITING ACROSS THE CURRICULUM:**
(Included in REQUIREMENTS FOR THE MAJOR)

**ELECTIVES:** 18 credits

**BACHELOR OF ARTS DEGREE REQUIREMENTS:** 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

**REQUIREMENTS FOR THE MAJOR:** 36 credits

**PRESCRIBED COURSES** (3 credits)
HIST 302W(3) (Sem: 5-6)

**ADDITIONAL COURSES** (6 credits)
Choose one sequence from the following three:
HIST 001 GH;IL(3), HIST 002 GH;IL(3) (Sem: 1-4)
HIST 010 GH;IL(3), HIST 011 GH;IL(3) (Sem: 1-4)
HIST 020 GH;US(3), HIST 021 GH;US(3) (Sem: 1-4)

**SUPPORTING COURSES AND RELATED AREAS** (27 credits)
Select 12 credits, in consultation with an advisor, at the 100-200-level, one course from each of the following field categories: Europe, United States, Global, Pre-Modern* (Sem: 1-4)
Select 3 credits at the 100-400-level (Sem: 1-8)
Select 12 credits at the 400-level, at least one course which must be in Global History (Sem: 5-8)

* Courses that appear in two History categories (such as HIST 174) cannot be double-counted to be applied to two field categories. However, the student may choose to which category to apply the course.

**Integrated B.A./M.A. Program in History**
The Department of History offers an integrated B.A./M.A. program that is designed to allow academically superior baccalaureate students to obtain both the B.A. and the M.A. degrees in History within five years of study. The first two years of undergraduate coursework include the University General Education and Liberal Arts requirements in addition to introductory coursework in the major. In the third year, students are expected to take upper-level courses and the department’s undergraduate capstone seminar. By the fourth year students should have selected the primary fields of study and be enrolled exclusively in 400 and graduate-level courses in those areas. The fifth and final year of the program typically consists purely of graduate seminars. The program culminates with an M.A. oral defense of seminar papers that best represents their interests and work written in two of the graduate seminars.

By encouraging greater depth and focus by the beginning of the third undergraduate year, this program will help the student more clearly define his/her area of interest among the four main primary areas of focus in the department’s graduate program. As a result, long-range academic planning for exceptional students pursuing doctoral degrees after leaving Penn State, or other professional goals, will be greatly enhanced. With the IUG they would be highly qualified to enter directly into careers in secondary education, and other government positions that require graduate degrees. Students who have completed this program but wish to continue on to a Ph.D. will be more competitive in applying for admission to Ph.D. programs in History and Area Studies but also will be well placed to apply to other professional programs including library
Admission Requirements
The number of openings in the integrated B.A./M.A. program is limited. Admission will be selective based on specific criteria and the unqualified recommendation of faculty. Applicants to the integrated program:

1. Must be enrolled in the History B.A. program[1].
2. Must have completed 60 credits of the undergraduate degree program (it is strongly suggested that students apply to the program prior to completing 100 credits).
3. Must be accepted without reservation into the M.A. program in History.
4. Should have a recommended overall GPA of 3.2 (on a 4.0 scale) in undergraduate coursework and a minimum GPA of 3.5 in all coursework completed for the major.
5. Must present a departmentally approved plan of study in the application process.
6. Must be recommended by the chairs of the Department's undergraduate and graduate committees.

Degree Requirements
Students must complete the requirements for a B.A. in history.

Students must complete the Master of History Requirements, which total 30 credit hours of graduate instruction, in addition to completing 123 credit hours of undergraduate instruction.

The 400-level courses, totaling 18 credit hours, can double-count towards both the B.A. and Master of History degrees.

Students must complete a minimum of 30 credit hours of graduate instruction over and above the 123 credit hours required of the B.A. degree in history. All 30 of these credit hours must be earned in 400-level, 500-level, or 600-level courses.

These 500-level courses must be grouped into two primary fields of study with a minimum of 6 credit hours in each field.

Student must have satisfactory academic performance to maintain enrollment in the program. A grade point average of 3.0 in the 30 credit hours of graduate instruction is required to receive the master's degree.

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Spring Semester 2013

Information Sciences and Technology

Abington College (ISSAB)
Berks College (ISSBL)
Capital College (ISSCA)
University College: Penn State Beaver, Penn State Brandywine, Penn State Greater Allegheny, Penn State Hazleton, Penn State New Kensington, Penn State Lehigh Valley, Penn State Mont Alto, Penn State Schuylkill, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York (ISSCC)
World Campus

University Park, College of Information Sciences and Technology (ISTBS)

Mary Beth Rosson, Associate Dean for Graduate and Undergraduate Studies, College of IST

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

This major is structured to provide students with the theoretical frameworks and skill sets necessary to compete and be productive in the information technology-intensive global context that defines the new "Information Age." Specifically, the degree will be focused on a program that will build an understanding of core information technologies and related areas of study; will prepare students for the practical application of various information sciences and related technologies; and engage students in sharpening their abilities
to think critically and to work in teams. All this will be done with considerable interdisciplinary integration in order to expose students to the cognitive, social, institutional, and global environments of IST. Team projects in most courses, a required internship, and a senior capstone experience provide additional, focused venues for involving students in the cutting-edge issues and technologies of the field.

INFORMATION CONTEXT: PEOPLE, ORGANIZATIONS, AND SOCIETY OPTION: This option focuses on how information technology affects social change and the delivery of information to the consumer. This includes the human-machine interface; organization and retrieval of information; digital libraries; information and telecommunications services; information and media industry structures; software services and intermediaries; telecommunications and information law and policy; sociological aspects of technology change; multimedia; and art, design, and aesthetics.

INFORMATION SYSTEMS: DESIGN & DEVELOPMENT OPTION: This option is focused on expanding the skills needed to develop advanced information technology systems using state-of-the-art tools and techniques. The emphasis is on providing the student with both knowledge in the design, implementation, testing and evolution of complex software systems as well as a set of project-oriented, team-programming experiences.

INFORMATION TECHNOLOGY: INTEGRATION & APPLICATION OPTION: This option is designed to prepare students to use information technology to realize a variety of system-based goals (e.g., reliability, accessibility, efficiency, etc.). It is focused on developing a theoretical foundation and the skill set needed for integrating information technology into different systems for the purpose of enhancing system performance. The emphasis is on providing the student with both the theoretical frameworks needed to use information technology as a system attribute as well as a set of application-oriented experiences and skills.

Entrance Requirements: To be eligible for entrance to the Information Sciences and Technology (ISTBS) major, students must:

1. have completed the following entrance-to-major requirements with a grade of C or better in each: IST 110(3); IST 210(3); and IST 220(3).
2. have achieved a minimum cumulative grade point average of 2.00 prior to and through the end of the semester during which the entrance-to-major procedure is carried out.

For the B.S. degree in Information Sciences and Technology, a minimum of 125 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(12 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in front of the Bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 8 credits

REQUIREMENTS FOR THE MAJOR: 84 credits
(This includes 12 credits of General Education courses: 6 credits of GQ courses; 3 credits of GS courses; and 3 credits of GWS courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 60 credits

PRESCRIBED COURSES (26 credits)
IST 110 GS(3)[1], IST 210(3)[1], IST 220(3)[1], IST 230(3)[1] (Sem: 1-4)
STAT 200 GQ(4) (Sem: 3-6)
IST 495(1)[1] (Sem: 3-8)
IST 301(3)[1], IST 331(3)[1] (Sem: 5-8)
IST 440W(3)[1] (Sem: 7-8)

ADDITIONAL COURSES (13 credits)
CMPSC 101 GQ(3)[1], CMPSC 121 GQ(3)[1], or IST 140(3)[1] (Sem: 1-4)
ECON 014 GS(3), ECON 102 GS(3), or ECON 104 GS(3) (Sem: 1-4)
ENGL 202C GWS(3) or ENGL 202D GWS(3) (Sem: 1-4)
MATH 110 GQ(4) or MATH 140 GQ(4) (Sem: 1-4)
SUPPORTING COURSES AND RELATED AREAS (21 credits)
Attainment of third-level proficiency in a single foreign language (12 credits). Proficiency must be demonstrated by either examination or course work. See the admission section of the general information in this Bulletin for the placement policy for Penn State foreign language courses. (Sem: 1-4)
Select 6 credits of international courses in foreign culture from College-approved list (Sem: 5-8)
Select 3 credits[1] at the 400 level in emerging issues and technologies from College-approved list (Sem: 5-8)

REQUIREMENTS FOR THE OPTION: 24 credits

INFORMATION CONTEXT: PEOPLE, ORGANIZATIONS, AND SOCIETY OPTION: 24 credits

PRESCRIBED COURSES (6 credits)[1]
IST 431(3) and IST 432(3) (Sem: 5-8)

ADDITIONAL COURSES (6 credits)[1]
IST 240(3) or IST 242(3) (Sem: 1-4)
IST 302(3) or IST 413(3) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (12 credits)
Select 12 credits from College-approved list (Sem: 5-8) [3]

INFORMATION SYSTEMS: DESIGN & DEVELOPMENT OPTION: 24 credits

PRESCRIBED COURSES (6 credits)[1]
IST 242(3) (Sem: 1-4)
IST 311(3) (Sem: 5-8)

ADDITIONAL COURSES (9 credits)[1]
Select 3 credits from IST 261(3) or IST 361(3) (Sem: 5-8)
Select 6 credits from IST 411(3), IST 412(3), or IST 413(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (9 credits)
Select 9 credits from College-approved list (Sem: 5-8) [3]

INFORMATION TECHNOLOGY: INTEGRATION & APPLICATION OPTION: 24 credits

PRESCRIBED COURSES (9 credits)[1]
IST 302(3), IST 420(3), IST 421(3) (Sem: 5-8)

ADDITIONAL COURSES (3 credits)[1]
IST 240(3) or IST 242(3) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (12 credits)
Select 12 credits from College-approved list (Sem: 5-8) [3]

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.
[2] Students in the Information Systems: Design and Development Option are expected to take IST 242 prior to taking the prescribed and additional courses for that option.
[3] Students must take at least one supporting course at the 400-level and not more than two supporting courses at the 100-level.

Last Revised by the Department: Fall Semester 2014
Blue Sheet Item #: 43-03-088
Review Date: 11/18/2014

Integrative Arts

Abington College (IARAB)
Altoona College (IARAL)
University Park, College of Arts and Architecture (INART)

PROFESSOR JANET HARTRANFT, Ph.D., Program Coordinator, University Park

Integrative Arts is an interdisciplinary major available to students who desire a curriculum that crosses over traditional single discipline lines. The Integrative Arts student initially establishes an academic plan with the assistance of an approved adviser. The plan must contain a core component of 42 credits and an elective
component of 15 credits. The two components combined must clearly illustrate that the plan has clarity, purpose, and cohesion. All Integrative Arts students must complete 6 credits of history of the arts. These credits may be counted as a part of the major or, if outside the major, may be counted under General Education and/or Bachelor of Arts degree requirements. Consult with advisor for course selection.

For the B.A. degree in Integrative Arts, a minimum of 120 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(6 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 15 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 42 credits
(This includes 6 credits of General Education courses: 6 credits of GA)

SUPPORTING COURSES AND RELATED AREAS: 42 credits[1]
(Must include at least 15 credits at the 400 or equivalent level)
(Must include 6 credits in History of the Arts)

Select 24 credits from an arts area (Sem: 1-8)
Select 12 credits from other arts areas (Sem: 1-8)
Select 6 credits of GA (Sem: 1-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Fall Semester 2012

Blue Sheet Item #: 41-03-010

Review Date: 11/13/2012

PROGRAM CURRENTLY ON HOLD at PENN STATE Harrisburg;
NOT ACCEPTING NEW STUDENTS
Begin Date of Enrollment Hold: Fall Semester 2015

Letters, Arts, and Sciences

Abington College (LASAB)
Altoona College (LASAL)
Penn State Harrisburg (LASCA)
University College (LASCC): Penn State Brandywine, Penn State DuBois, Penn State Greater Allegheny, Penn State Hazleton, Penn State Mont Alto, Penn State Shenango, Penn State Worthington Scranton
University Park, College of the Liberal Arts (LAS)
World Campus

Letters, Arts, and Sciences is a multi-disciplinary, theme-oriented, and student-designed major leading to a bachelor of arts degree. The major consists of 36 credits, divided into two sections. The core (12 credits) consists of 3 credits each in the following: research methods/projects; communication skills;
theory/application; and critical analysis. The additional courses (24 credits) consist of courses directed toward the student's theme, 15 credits of which must be at the 400 level.

In order to be eligible for entrance to the major, the student must submit a proposal. In consultation with an LAS adviser, the student formulates a proposal designing a program that investigates a theme from the viewpoint of at least three different subject areas. Students may not duplicate existing majors from any academic area. An important standard for entrance to the Letters, Arts, and Sciences major is the student's ability to design a program with academic integrity worthy of a bachelor of arts degree.

For the B.A. degree in Letters, Arts, and Sciences, a minimum of 120 credits is required.

Per Senate Policy 83-80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. For more information, check the Recommended Academic Plan for your intended program.

**Early Admission Program for Professional Schools:** If a student is accepted and enrolled as a degree candidate in a professional postgraduate degree program requiring three years or more to complete (such as medical school, dental school, law school, theological seminary, etc.) and if that student completes 94 undergraduate credits at Penn State including General Education, B.A. requirements, and the LAS 12-credit core requirements, that student may use up to 30 credits from the professional school to complete the B.A. in LAS.

It must be emphasized that only top students are accepted into professional school programs on such an early admission basis and that not every professional school has such a policy. Students must have enrolled in LAS prior to attending the professional school to request graduation in LAS.

**Scheduling Recommendation by Semester Standing given like (Sem: 1-2)**

**GENERAL EDUCATION:** 45 credits
(See description of General Education in this bulletin.)

**FIRST-YEAR SEMINAR:**
(Included in ELECTIVES or GENERAL EDUCATION course selection)

**UNITED STATES CULTURES AND INTERNATIONAL CULTURES:**
(Included in ELECTIVES or GENERAL EDUCATION course selection)

**WRITING ACROSS THE CURRICULUM:**
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

**ELECTIVES:** 15 credits

**BACHELOR OF ARTS DEGREE REQUIREMENTS:** 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

**REQUIREMENTS FOR THE MAJOR:** 36 credits[1]

**ADDITIONAL COURSES** (24 credits)
In consultation with adviser, select 24 credits from University-wide offerings to include:
a) 12 credits at the 400 level representing at least three different subject areas;
b) a 3 credit 400-level capstone course (to be selected in consultation with adviser);
c) at least 9 credits (of the 24 total) from the humanities and social sciences. (Sem: 1-8)

**SUPPORTING COURSES AND RELATED AREAS** (12 credits)
In consultation with adviser, select 3 credits in research methods/projects from courses that involve research methodology or that focus on a research project; select 3 credits in communication skills from courses that focus on expression including those in verbal, symbolic, and written skills; select 3 credits in theory/application from courses that focus on theory, principle, central concepts, or fundamental issues; select 3 credits in critical analysis from courses that focus on evaluation, synthesis, and analysis. (Sem: 1-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Last Revised by the Department: Summer Session 2008

Blue Sheet Item #: 36-04-042

Review Date: 1/15/08
Nursing

Altoona College
Penn State Abington
Penn State Erie, The Behrend College
Penn State Harrisburg
University College: Penn State Fayette, Penn State Mont Alto, Penn State New Kensington, Penn State
Shenango, Penn State Worthington Scranton
University Park, School of Nursing (NURN)
World Campus

PROFESSOR PAULA MILONE-NUZZO, Dean, College of Nursing

This major prepares registered nurse students as professional practitioners in areas of health promotion and maintenance, illness care, and rehabilitation. The major in Nursing is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 8500, Atlanta, GA 30326 (404-975-5000), [www.acenursing.org](http://www.acenursing.org); and the Commission on Collegiate Nursing Education (CCNE), One DuPont Circle, NW Suite 530, Washington, DC 20036 (202-463-6930). Part-time or full-time study is available at any of the campus sites. The University Park site is a blended program, which includes resident instruction and online nursing courses. The World Campus site is completely online.

Senate legislation 42-97 Credit by Portfolio Assessment enables students to receive credit for certain prescribed nursing courses based on their RN licensure.

Students must meet all requirements of the clinical institutions that provide preceptors and clinical experiences. These requirements may include CPR certification, professional liability insurance, health examination, drug testing, criminal background check (State and Federal) and child abuse history clearances. Students also are responsible for their own transportation to and from clinical settings and may need the use of a car.

Graduates of this major may qualify for admission to a graduate nursing program.

For the B.S. degree in Nursing, a minimum of 120 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

**GENERAL EDUCATION:** 45 credits

(21 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)

(See description of General Education in this bulletin.)

**UNITED STATES CULTURES AND INTERNATIONAL CULTURES:**

(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

**WRITING ACROSS THE CURRICULUM:**

(Included in REQUIREMENTS FOR THE MAJOR)

**ELECTIVES:** 3-5 credits

**REQUIREMENTS FOR THE MAJOR:** 91-93 credits[1]

(This includes 21 credits of General Education courses: 3 credits of GHA courses; 9 credits of GN courses; 3 credits of GQ courses; 6 credits of GS courses.)

**PRESCRIBED COURSES** (76 credits)

BIOL 129 GN(4), BIOL 141 GN(3), BIOL 142(1), HD FS 129 GS(3), MICRB 106 GN(3), MICRB 107 GN(1), NUTR 251 GHA(3), PSYCH 100 GS(3) (Sem: 1-4)

NURS 200W(3)[38], NURS 251(3)[38], NURS 357(3)[38], NURS 390 US(3)[38] (Sem: 3-4)

NURS 225(3)[37], NURS 230(4)[37], NURS 250 US(2)[37], NURS 301(4)[37], NURS 305(3)[37], NURS 306(3)[37],

NURS 310(3)[37], NURS 320(3)[37], NURS 405B(4)[37], NURS 420(4)[37], (Sem: 5-6)

NURS 417 US;IL(4)[38], NURS 465(3), NURS 475(3)[38] (Sem: 7-8)

**ADDITIONAL COURSES** (9-11 credits)

CHEM 101 GN(3); or CHEM 110 GN(3) and CHEM 111 GN(1) (Sem: 1-4)

SOC 001 GS(3) or SOC 005 GS(3) (Sem: 1-4)

STAT 200 GQ(4) or STAT 250 GQ(3) (Sem: 1-4)
Psychological and Social Sciences

Abington College (PSSBA)

PROFESSOR DAVID RUTH, Head, Division of Social Sciences

Building on the interdisciplinary and cross-disciplinary strengths of Penn State Abington, the Psychological and Social Sciences B.A. is designed to respond to the demand for a program emphasizing the social and behavioral sciences leading to an understanding of human behavior and its influence upon society as well as the influence of social forces on individuals. The program is distinguished by its interdisciplinary and cross-disciplinary course work and required field experience. The B.A. provides a broad theoretical foundation in social and psychological theory as well as the opportunity to engage in supervised field experience. The major offers students a choice of course clusters focused on specialized areas such as social psychology, developmental studies, organizational behavior and leadership, bio-behavior and diversity, and counseling. The major is designed to prepare students for a variety of career fields including human resources, business administration, mental health, and social work as well as for continued study in graduate or professional school.

For the B. A. degree in Psychological and Social Sciences, a minimum of 121 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(See description of General Education in front of Bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 5-6 credits

BACHELOR OF ARTS DEGREE REQUIREMENTS: 24 credits
(3 of these 24 credits are included in the REQUIREMENTS FOR THE MAJOR, GENERAL EDUCATION, or ELECTIVES and 0-12 credits are included in ELECTIVES if foreign language proficiency is demonstrated by examination.)
(See description of Bachelor of Arts Degree Requirements in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 46-47 credits[1]

PRESCRIBED COURSES (10 credits)
PSYCH 100 GS(3) (Sem: 1-2)
ANTH 045 GS;US;IL(3) (Sem: 1-4)
PSYCH 200 GQ(4) (Sem: 3-4)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.
[37] Credit by Portfolio Assessment
[38] Due to restricted enrollment, the School of Nursing assigns the semester in which students enroll in these courses and all course prerequisites must be successfully completed.

Updated contact info for ACEN accrediting agency: 7/31/13
ADDITIONAL COURSES (15-16 credits)
SOC 001 GS(3) or SOC 005 GS(3) (Sem: 1-4)
HD FS 129 GS(3) or PSYCH 212 GS(3) (Sem: 1-4)
HD FS 312W(3) or PSYCH 301W(4) (Sem: 3-4)
BB H 301(3) or HD FS 301(3) (Sem: 3-6)
Select 3 credits of ANTH 495(1-18), HD FS 495C(3-8), PSYCH 495(1-15), or SOC 495(1-18) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
(At least 15 credits must be at the 400-level)
Select 6-15 credits from the following HD FS and PSYCH courses:
Select 6-15 credits from the following SOC and ANTH courses:
Select 0-9 credits from the following other social sciences courses:

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Lasted Revised by the Department: Spring Semester 2014
Blue Sheet Item #: 42-06-001
Review Date: 04/08/2014
UCA Revision #: 9/1/06
Dept head revised by Publications: 4/23/07
AB

Psychological and Social Sciences

Abington College (PSSBS)

PROFESSOR DAVID RUTH, Head, Division of Social Sciences

Building on the interdisciplinary and cross-disciplinary strengths of Penn State Abington, the Psychological and Social Sciences B.S. is designed to respond to the demand for a program emphasizing the social and behavioral sciences leading to an understanding of human behavior and its influence upon society as well as the influence of social forces on individuals. The program is distinguished by its interdisciplinary and cross-disciplinary course work and required field experience. The degree program offers students a choice of course clusters focused on specialized areas such as social psychology, developmental studies, organizational behavior and leadership, bio-behavior and diversity, and counseling. The B.S. provides a broad theoretical foundation in social and psychological theory as well as the opportunity to engage in supervised field experience. In addition, the B.S. degree emphasizes quantitative research skills and requires the completion of a senior thesis. The major is designed to prepare students for a variety of career fields including human resources, business administration, mental health, and social work as well as for continued study in graduate or professional school.

For the B.S. degree in Psychological and Social Sciences, a minimum of 121 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(7-8 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in front of Bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)
UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Include in REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Include in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 12-17 credits

REQUIREMENTS FOR THE MAJOR: 66-70 credits[1]
(This includes 7-8 credits of General Education courses: 3-4 credits of GN courses; 4 credits of GQ courses.)

PRESCRIBED COURSES (17 credits)
MATH 110 GQ(4), PSYCH 100 GS(3) (Sem: 1-2)
ANTH 045 GS;US;IL(3) (Sem: 1-4)
PSYCH 200 GQ(4) (Sem: 3-4)
SOC 471(3) (Sem: 7-8)

ADDITIONAL COURSES (29 credits)
BIOL 110 GN(4) or BIOL 141 GN(3) and BIOL 142(1) (Sem: 1-4)
SOC 001 GS(3) or SOC 005 GS(3) (Sem: 1-4)
HD FS 129 GS(3) or PSYCH 212 GS(3) (Sem: 1-4)
PSYCH 301W(4) or HD FS 312W(3) (Sem: 3-4)
BB H 301(3) or HD FS 301(3) (Sem: 3-6)
CAS 352(3) or CAS 455 US(3) (Sem: 5-8)
Select 3 credits of ANTH 495(1-18), HD FS 495C(3-8), PSYCH 495(1-15), or SOC 495(1-18) (Sem: 7-8)
Select 3 credits of ANTH 494(1-12), HD FS 494(1-12), PSYCH 494(3-6), or SOC 494(1-12) (Sem: 7)
Select 4 credits of ANTH 494(1-12), HD FS 494(1-12), PSYCH 494(3-6), or SOC 494(1-12) (Sem: 8)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
(at least 12 credits must be at the 400 level)
Select 6-15 credits from the following HD FS and PSYCH courses:
PSYCH 415(3), PSYCH 416(3), PSYCH 420(3), PSYCH 422(3), PSYCH 423(3), PSYCH 424(3), PSYCH 426(3),
PSYCH 438(3), PSYCH 441(3), PSYCH 470(3), PSYCH 478(3), PSYCH 479 US(3), PSYCH 481(3), PSYCH 484(3),
PSYCH 485(3), PSYCH 496B(3), PSYCH 497(1-9) (Sem: 5-8)
Select 6-15 credits from the following SOC and ANTH courses:
ANTH 002 GS(3), ANTH 011 GS;IL(3), ANTH 022 GN(3), ANTH 040(3), ANTH 146 GS;US(3), ANTH 197(1-9),
ANTH 199 IL(1-12), ANTH 216 GN;GS(3), ANTH 321W(3), ANTH 380(3), ANTH 395(1-18), ANTH 448(3),
ANTH 464(3), SOC 003 GS(3), SOC 030 GS(3), SOC 035(3), SOC 103 US(3), SOC 109(3), SOC 110 GS;US(3),
SOC 455(3), SOC 456(3), SOC 462(3), SOC 471(3), SOC 497(1-9) (Sem: 5-8)
Select 0-9 credits from the following other social sciences courses:

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Lasted Revised by the Department: Spring Semester 2014
Blue Sheet Item #: 42-06-002
Review Date: 04/08/2014
UCA Revision #1: 8/31/06
Dept head revised by Publications: 4/23/07
AB

Rehabilitation and Human Services
Penn State Abington (RHSAB)
Penn State Berks (RHSBL)
University College: Penn State Hazleton, Penn State Lehigh Valley, Penn State Wilkes-Barre (RHSCC)
University Park, College of Education (RHS)
PROFESSOR JAMES HERBERT, Undergraduate Program Coordinator
This major helps prepare students for entry-level positions in a variety of human service settings, particularly settings that provide services to persons with physical, emotional, or mental disabilities. Graduates pursue employment in a variety of settings including rehabilitation centers, drug and alcohol programs, senior citizens centers, community mental health programs, mental retardation programs, corrections systems, and hospitals. Increasing opportunities are available in private for-profit insurance programs for the industrially injured, and in employee assistance programs within business and industry. Well-planned use of electives and internships allows for specialization. The full-semester (15-credit) internship is provided under the supervision of professionals in human service agencies. These intensive "hands-on" experiences are frequently avenues for employment since the internship is completed during the senior year. Students may not go on internship until they have successfully completed all other coursework. Students are encouraged to participate in volunteer experiences that provide opportunities to work with people with disabilities. Students are encouraged to declare a minor in a related area and should be discussed with the student's adviser. The major also helps prepare students for graduate study in many human service professional disciplines such as rehabilitation counseling, school counseling, occupational therapy, physical therapy and social work.

Baccalaureate degree candidates must have a minimum 2.0 GPA to be admitted to the Rehabilitation and Human Services (RHS) major; thereafter, students must earn a C or better in all RHS required courses.

For the B.S. degree in Rehabilitation and Human Services, a minimum of 120 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(12-14 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 17-20 credits

REQUIREMENTS FOR THE MAJOR: 70-72 credits
(This includes 12-14 credits of General Education courses: 6 credits of GS courses; 3-4 credits of GQ courses; 3-4 credits of GN courses.)

PRESCRIBED COURSES (55 credits)
PSYCH 100 GS(3), RHS 100 GS;US(3) (Sem: 1-4)
PSYCH 270(3), SOC 001 GS(3), SOC 119(4) (Sem: 1-6)
RHS 300(3)[1], RHS 301(3)[1], RHS 302(3)[1], RHS 303(3)[1], RHS 400W(3)[1], RHS 401(3)[1], RHS 402(3)[1],
RHS 403(3)[1], RHS 495A(15) (Sem: 5-8)

ADDITIONAL COURSES (9-11 credits)
EDPSY 010 GS(3), HD FS 239 GS(3), or PSYCH 212 GS(3) (Sem: 1-2)
Select 3-4 credits from ANTH 021 GN(3), BI SC 001 GN(3), BI SC 002 GN(3), BI SC 003 GN(3), BI SC 004 GN(3), BIOL 133 GN(3), BIOL 110 GN(4), or BIOL 141 GN(3) (Sem: 1-6)
STAT 100 GQ(3) or STAT 200 GQ(4) or EDPSY 101 GQ(3) (Sem: 1-6)

SUPPORTING AND RELATED COURSES (6 credits)
Select 6 credits from CRIM, BB H, HD FS, KINES, PSYCH, or SOC (Sem: 3-8)

[1] A student enrolled in this major must receive a grade of C or better in this course, as specified in Senate Policy 82-44.

Last Revised by the Department: Spring Semester 2013
Blue Sheet Item #: 41-05-082
Review Date: 02/19/2013
UCA Revision #1: 9/1/06
PIC updated: 2/13/12
ED
Science

Abington College (SCIAB)
Altoona College (SCIAL)
Berks College (SCIBL)
Capital College (SCICA)
University College (SCICC): Penn State Worthington-Scranton, Penn State York
University Park, Eberly College of Science (SC BS)
Integrated Five-Year Science/Business M.B.A. Program (SCBUS)

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

PROFESSOR RONALD MARKLE, in charge

The Science major is an interdisciplinary degree that aims to provide a broad, general education in science. The bachelor of science (B.S.) curriculum is designed specifically for students who have education goals relating to scientific theory and practice and who require a high degree of flexibility to obtain their educational objectives. After completing foundation courses in calculus, chemistry, physics, and the life sciences, students will select additional science courses from designated areas. A large number of supporting credits permit students to readily include significant breadth or specialization into their undergraduate curriculum. Some examples include minors in business, computer and information science, education, kinesiology, or other fields. The degree allows students throughout the Commonwealth to become familiar with both the theory and the practice of science. It can help prepare students for various careers in pharmaceutical, biotechnical, chemical, medical, and agricultural industries. The degree can also be tailored to meet the specific requirements of professional programs such as medical, dental, or pharmacy schools. The General Science option of the B.S. Science degree allows for the most flexibility. Achievement in a more specialized set of goals can be met by selecting one of the other B.S. options offered: the Biological Sciences and Health Professions option, the Legal Studies, Government Service, Public Policy option, the Life Sciences option, the Mathematical Sciences option, or the Physical Sciences option. Not all of these options are available at all locations, and there are minor distinctions of the core curriculum at some locations, so see the Science program director at your College for further details.

In order to be eligible for entrance to the Science major, a student at any location must have: 1) attained at least a 2.00 cumulative grade-point average; 2) completed MATH 140 GQ(4) with a grade of C or better; 3) completed at least two of the following courses, BIOL 110 GN(4); CHEM 110 GN(3); PHYS 211 GN(4) or PHYS 250 GN(4), with a grade of C or better.

For the B.S. degree in Science, a minimum of 124 credits is required, with at least 15 credits at the 400 level.

TWO-YEAR PREPROFESSIONAL PREPARATION: The first two years of the Science major (62 credits) can meet the pre professional needs of those interested in admission to some schools of pharmacy, physical therapy, optometry, nursing, and physician assistant training. Successful students can then transfer after two years of undergraduate study to the professional school to which they are admitted. Note, however, that no Penn State degree can be awarded after only two years (62 credits) of study in the Science major. Also, note that the abbreviated two-year curriculum alone does not prepare students for admission to professional schools of general medicine, veterinary medicine, or dental medicine. Consult with your college's health sciences professional adviser for additional information.

ACCELERATED SCIENCE B.S./M.B.A. PROGRAM: Students admitted to this special cooperative program between the Eberly College of Science and The Smeal College of Business will be able to combine a Bachelor of Science degree in the Science major, with a Master of Business Administration degree. Highly motivated students, who enter the University with a sufficient number and proper distribution of AP credits, will have the opportunity to complete the requirements for both programs within five years. The B.S. degree in the Science major General Science option, will be conferred upon satisfactory completion of:

1. A minimum of 112 acceptable undergraduate credits, which must include:
   1. (30 credits) The University's General Education requirements in the areas of Writing and Speaking (9), Health and Physical Activity (3), Arts (6), Humanities (6), and Social and Behavioral Sciences (6). (Note: Students will be required to take ECON 102 GS(3) and ECON 104 GS(3) in order to satisfy the Social and Behavioral Sciences requirement. The University's General Education requirements in the areas of Quantification and Natural Sciences will be satisfied by course work listed under heading "c".)
   2. The University's First-Year Seminar, United States Cultures, International Cultures, and Writing Across the Curriculum requirements. (Note: These requirements may be double counted in order to satisfy other requirements in the program.)
3. (53-57 credits) BIOL 110 GN(4), CHEM 110 GN(3), CHEM 111(1), CHEM 112 GN(3), CHEM 113 GN(1), CMPSC 203 GQ(4), MATH 140 GQ(4), MATH 141 GQ(4), PHYS 211 GN(4), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2), or PHYS 250 GN(4), PHYS 251 GN(4), STAT 200 GQ(4); an additional life science course selected from B M B 211(3), B M B 251(3), or MICRB 201(3); and 14 additional credits of course work from the Eberly College of Science, with at least nine credits at the 400 level.

4. (0-8 credits) Demonstration of second semester proficiency in a single foreign language.

5. (3-9 credits) SC 295(1-3), SC 395(1-3), SC 495(1-3) (Note: Students must complete three Eberly College of Science Cooperative Education experiences, including at least one experience which is a full semester in length.)

6. (4 credits) ACCTG 211(4)

7. (4-22 credits) Supporting courses and related areas selected from the program list.

2. The first semester of course work in The Smeal College of Business M.B.A. program (i.e., a minimum of 12 graduate credits).

**Scheduling Recommendation by Semester Standing given like (Sem: 1-2)**

**GENERAL EDUCATION:** 45 credits

(15 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)

(See description of General Education in this bulletin.)

**FIRST-YEAR SEMINAR:**

(Included in GENERAL EDUCATION course selection or SUPPORTING COURSES AND RELATED AREAS)

**UNITED STATES CULTURES AND INTERNATIONAL CULTURES:**

(Included in GENERAL EDUCATION course selection or SUPPORTING COURSES AND RELATED AREAS)

**WRITING ACROSS THE CURRICULUM:**

(Included in GENERAL EDUCATION course selection or REQUIREMENTS FOR THE MAJOR or SUPPORTING COURSES AND RELATED AREAS)

**REQUIREMENTS FOR THE MAJOR:** 94 credits

(This includes 15 credits of General Education courses: 9 credits of GN courses; 6 credits of GQ courses.)

**COMMON REQUIREMENTS FOR MAJOR (All options)**

**PRESCRIBED COURSES** (20 credits)

CHEM 110 GN(3) [1], CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 GQ(4) [1], MATH 141 GQ(4) (Sem: 1-2)

BIOL 110 GN(4) [1] (Sem: 1-4)

**REQUIREMENTS FOR THE OPTIONS:** 60-88 credits

**GENERAL SCIENCE OPTION:** (68-79 credits)

**ADDITIONAL COURSES** (15-20 credits)

Select 4 credits from BIOL 129 GN(4), BIOL 220W(4), BIOL 230W(4), BIOL 240W(4) or BIOL 141 GN(3) and BIOL 142(1) (Sem: 3-4)

Select 3-4 credits from STAT 200 GQ(4), or STAT 250 GQ(3) or STAT 301(3) or STAT 401(3) (Sem: 3-4)

Select 8-12 credits from PHYS 211 GN(4) [1], PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 GN(4) [1], PHYS 251 GN(4) (Sem: 3-6)

**SUPPORTING COURSES AND RELATED AREAS** (53-59 credits)

(A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation.)

Select 20-26 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)

Select 3 credits from earth and mineral sciences (Sem: 3-8)

Select 18 credits in life, mathematical, or physical sciences, with at least 9 credits [1] at the 400 level [60] (Sem: 3-8)

Select 3 credits in Global, Social and Personal Awareness from department approved course list in consultation with adviser (Sem: 3-8)

Select 3 credits in Teamwork and Interpersonal Communication from department approved course list in consultation with adviser (Sem: 3-8)

Select 6 credits of 400-level courses (Sem: 5-8)

**BIOLOGICAL SCIENCES AND HEALTH PROFESSIONS OPTION:** (66-80 credits)

**PRESCRIBED COURSES** (3 credits)

H P A 101(3) (Sem: 3-6)

**ADDITIONAL COURSES** (24-31 credits)

Select 4 credits from BIOL 129 GN(4), BIOL 220W(4), BIOL 230W(4), BIOL 240W(4) or BIOL 141 GN(3) and
BIOL 142(1) (Sem: 3-4)
Select 3-4 credits from STAT 200 GQ(4), or STAT 250 GQ(3) or STAT 301(3) or STAT 401(3) (Sem: 3-4)
Select 6-8 credits from CHEM 210(3), CHEM 212(3), CHEM 213(2) or CHEM 202(3), CHEM 203(3) (Sem: 3-6)
Select 3 credits from B M B 211(3), B M B 251(3), MICRB 201(3), BIOL 222(3), or BIOL 322(3) (Sem: 3-6)
Select 8-12 credits from PHYS 211 GN(4), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 GN(4)[1], PHYS 251 GN(4) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS (39-46 credits)
(A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation.)
Select 15 credits from program list for Healthcare/ Medicine/Ethical Competencies; 6 credits must be at the 400-level (Sem: 3-8) Select from department approved course list in consultation with adviser.
Select 9-16 credits from program list (Students may apply 6 credits of ROTC. (Sem: 1-8)
Select 3 credits in Global, Social and Personal Awareness from department approved course list in consultation with adviser (Sem: 3-8)
Select 3 credits in Teamwork and Interpersonal Communication from department approved course list in consultation with adviser (Sem: 3-8)
Select 9 credits[1] of 400-level B M B, BIOL, BIOTC, or MICRB courses (Sem: 5-8)

LEGAL STUDIES, GOVERNMENT SERVICE, PUBLIC POLICY OPTION (68-78 credits)

ADDITIONAL COURSES (15-20 credits)
Select 4 credits from BIOL 129 GN(4), BIOL 220W(4), BIOL 230W(4), BIOL 240W(4) or BIOL 141 GN(3) and BIOL 142(1) (Sem: 3-4)
Select 3-4 credits from STAT 200 GQ(4), or STAT 250 GQ(3) or STAT 301(3) or STAT 401(3) (Sem: 3-4)
Select 8-12 credits from PHYS 211 GN(4)[1], PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 GN(4)[1], PHYS 251 GN(4) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS (53-58)
Select 11-16 credits from program list (Students may apply 6 credits of ROTC. (Sem: 1-8)
Select 18 credits in life, mathematical, or physical sciences, with at least 9 credits[1] at the 400 level[60] (Sem: 3-8)
Select 18 credits from program list for Legal Studies, Government Service, Public Policy; 6 credits must be at the 400-level (Sem: 3-8) Select from department approved course list in consultation with adviser.
Select 3 credits in Global, Social and Personal Awareness from department approved course list in consultation with adviser (Sem: 3-8)
Select 3 credits in Teamwork and Interpersonal Communication from department approved course list in consultation with adviser (Sem: 3-8)
Select 9 credits[1] of 400-level B M B, BIOL, BIOTC, or MICRB courses (Sem: 5-8)

LIFE SCIENCE OPTION: (60-88 credits)

ADDITIONAL COURSES (24-30 credits)
Select 4 credits from BIOL 220 W GN(4), BIOL 230 W GN(4), BIOL 240 W GN(4) (Sem: 3-4)
Select 3 credits from CMPSC 101 GQ(3), MATH 250(3), or STAT 250 GQ(3) (Sem: 3-4)
Select 3 credits from B M B 211(3), B M B 251(3), or MICRB 201(3) (Sem: 3-4)
CHEM 202(3), CHEM 203(3); or CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-6)
PHYS 211 GN(4)[1], PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 GN(4)[1], PHYS 251 GN(4) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS (36-58 credits)
(A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation.)
Select 21-35 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)
Select 0-8 credits in a foreign language (proficiency demonstrated by examination or course work to the level of the second semester; if fewer than 8 credits are needed to reach the required proficiency, students choose selections from program list to total 8 credits) (Sem: 1-8)
Select 6 credits of 400-level courses (Sem: 5-8)
Select 9 credits[1] of 400-level B M B, BIOL, BIOTC, or MICRB courses (Sem: 5-8)

MATHEMATICAL SCIENCE OPTION: (61-88 credits)

PRESCRIBED COURSES (5-6 credits)
CMPOSC 122(3), MATH 220 GQ(2-3) (Sem: 3-6)

ADDITIONAL COURSES (24-29 credits)
Select 3 credits from B M B 211(3), B M B 251(3), or MICRB 201(3) (Sem: 3-4)
CMPOSC 121 GQ(3), CMPOSC 201 GQ(3), or CMPOSC 202 GQ(3) (Sem: 3-6)
MATH 230(4) or MATH 251(4) (Sem: 3-6)
CMPOSC 360(3) or MATH 311 W(3-4); STAT 301 GQ(3) or STAT 318(3) (Sem: 3-8)
PHYS 211 GN(4)[1], PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 GN(4)[1], PHYS 251 GN(4) (Sem: 3-8)
SUPPORTING COURSES AND RELATED AREAS (32-53 credits)
(A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation.)
Select 17-30 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)
Select 0-8 credits in a foreign language (proficiency demonstrated by examination or course work to the level of the second semester; if fewer than 8 credits are needed to reach the required proficiency, students choose selections from program list to total 8 credits) (Sem: 1-8)
Select 9 credits[1] of 400-level CMPSC, CSE, MATH, or STAT courses (Sem: 5-8)
Select 6 credits of 400-level courses (Sem: 5-8)

PHYSICAL SCIENCE OPTION: (63-85 credits)

PRESCRIBED COURSES (15 credits)
ASTRO 291 GN(3), PHYS 211 GN(4)[1], PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2) (Sem: 3-6)

ADDITIONAL COURSES (16-19 credits)
Select 3 credits from B M B 211(3), B M B 251(3), or MICRB 201(3) (Sem: 3-4)
CHEM 202(3), CHEM 203(3); or CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 3-6)
MATH 230(4) or MATH 251(4) (Sem: 3-6)
Select 3-4 credits from ASTRO 292 GN(3; E MCH 211(3); M E 300(3); or PHYS 237(3) (Sem: 3-8)

SUPPORTING COURSES AND RELATED AREAS (32-51 credits)
(A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation.)
Select 17-28 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)
Select 0-8 credits in a foreign language (proficiency demonstrated by examination or course work to the level of the second semester; if fewer than 8 credits are needed to reach the required proficiency, students choose selections from program list to total 8 credits) (Sem: 1-8)
Select 6 credits of 400-level courses (Sem: 5-8)
Select 9 credits[1] of 400-level ASTRO, CHEM, or PHYS courses (Sem: 5-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

[60] Physical sciences include ASTRO, CHEM, PHYS; mathematical sciences include CMPSC, MATH, STAT; life sciences include BIOL, BIOTC, B M B, MICRB.

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Blue Sheet Item #: 39-01-105A
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UCA Revision #1: 9/1/06
UCA Revision #2: 7/730/07
SC

Secondary Education

Abington College (SECAB)
Penn State Erie, The Behrend College (SECBC)
University Park, College of Education (SECED)

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

PROFESSOR SCOTT METZGER, Director

The following teaching options are available for majors in Secondary Education: Biological Science, Chemistry, Earth and Space Science, English/Communication, Environmental Education, General Science, Mathematics, Physics, and Social Studies/Citizenship Education.

The Secondary Education major helps prepare students for middle school and/or high school teaching positions and for other employment in fields related to their content specialties.

BIOLOGICAL SCIENCE TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education.

CHEMISTRY TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education.
EARTH AND SPACE SCIENCE TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education.

ENGLISH/COMMUNICATION TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education. This program has a Language and Literature Core and a Media Literacies Core. This program is open to students outside the College of Education who desire certification.

ENVIRONMENTAL EDUCATION TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for a Pennsylvania teacher certification in Environmental Education when completed in conjunction with another secondary education teaching option (i.e., Biological Science Teaching option). The total number of credits required will depend primarily on that other option.

GENERAL SCIENCE TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching General Science at the secondary-school level, which is issued by the Pennsylvania Department of Education. This option may only be completed in conjunction with another secondary education teaching option (e.g., Biology); the total number of credits required will depend primarily on that other option.

MATHEMATICS TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education.

PHYSICS TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching at the secondary-school level, which is issued by the Pennsylvania Department of Education.

SOCIAL STUDIES TEACHING OPTION: This option enables the graduate to meet all of the academic requirements for the Instructional I certificate for teaching social studies courses in the secondary-school level, which is issued by the Pennsylvania Department of Education. This option has a prescribed component required for all candidates as well as a choice of concentrations that focus on a specific area. All graduates who successfully complete this program are highly qualified to teach history in secondary grades (7-12) and are eligible for PA certification in Social Studies (7-12) and/or Citizenship Education (7-12). Candidates who successfully complete the Civics & Government concentration are highly qualified to be teachers of U.S. government and civics (7-12). Candidates who successfully complete the Economics concentration are highly qualified to be teachers of economics and economic issues (7-12). Candidates who successfully complete the Geography concentration are highly qualified to be teachers of geography and global studies (7-12). Candidates who successfully complete the Citizenship Education concentration receive additional content preparation to be highly qualified teachers of anthropology, psychology, or sociology (7-12). Candidates who successfully complete the Social Sciences concentration receive additional in-depth content preparation in Economics, Geography, History, and Political Science (7-12).

Baccalaureate degree candidates must meet the following requirements 1-3 by the end of their third semester:
1. A minimum cumulative grade point average of 3.00
2. Satisfaction of any basic-skills or entrance testing requirements as specified by the Pennsylvania Department of Education in force at the time of application for entrance to the major.
3. Documentation of at least 80 hours of volunteer or paid education work experience with learners of the age group the candidate plans to teach. Candidates for Secondary Education must document 40 of these hours with learners who come from backgrounds that are different from the candidate’s.

Requirements 4-9 must be met by the end of the fourth semester when students typically participate in the Entrance to Major process.

4. A grade of “C” or better in all specified courses.
5. Completion of an early field experience specified by the certification program.
6. Completion of a core of Education courses specified by the certification program.
7. Completion of additional credits as specified by the certification program.
8. Completion of at least 48 semester credit hours, including ENGL 015 GWS(3) or ENGL 030 GWS(3), three credits of literature, and six credits of quantification
9. Approval from the professional education adviser or the head of the pertinent certification program.

For the B.S. degree in Secondary Education with an option in Biological Science Teaching, a minimum of 129 credits is required; with an option in Chemistry Teaching, a minimum of 126 credits is required; with an option in Earth and Space Science Teaching, a minimum of 123 credits is required; with an option in
English/Communication Teaching, a minimum of 126 credits is required; with an option in Environmental Education Teaching and a cohort option, a minimum of 123 credits is required; with an option in General Science Teaching and a cohort option, a minimum of 121 credits is required; with an option in Mathematics Teaching, a minimum of 132 credits is required; with an option in Physics Teaching, a minimum of 121 credits is required; with an option in Social Studies Teaching, a minimum of 129 credits is required. (See also Teacher Education Programs.)

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 45 credits
(12-24 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:
(Included in ELECTIVES or GENERAL EDUCATION course selection)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:
(Included in ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

WRITING ACROSS THE CURRICULUM:
(Included in REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 0-4 credits

REQUIREMENTS FOR THE MAJOR: 83-105 credits
(This includes 12-27 credits of General Education courses: Biological Science Teaching option, Chemistry Teaching option, Earth and Space Science Teaching option, Environmental Education Teaching option, General Science Teaching option, and Physics Teaching option--6 credits of GH courses; 9 credits of GN courses; 3-6 credits of GS courses; 6 credits of GQ courses. English/Communication Teaching option--3-6 credits of GA courses; 6 credits of GH courses; 3-6 credits of GS courses. Mathematics Teaching option--6 credits of GH courses; 3-6 credits of GS courses; 6 credits of GQ courses. Social Studies Teaching option--6 credits of GH courses; 3 credits of GN courses; 6 credits of GS courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 45 credits

PRESCRIBED COURSES (36 credits)
C I 295(2), EDPSY 014(3), PSYCH 100 GS(3) (Sem: 1-2)
C I 280 GH(3) (Sem: 1-6)
C I 495C(3), SPLED 400(4), SPLED 403B(3) (Sem: 5-8)
C I 495E(15) (Sem: 7-8)

ADDITIONAL COURSES (3 credits)
PSYCH 412(3) or HD FS 239 GS(3) (Sem: 4-6)

SUPPORTING COURSES AND RELATED AREAS (6 credits)
Select 3 credits of GH courses from Literature Selection (Sem: 1-4)
Select 3 credits EDTHP 115 US(3) or EDTHP 115A GS;US(3) (Sem: 1-2) or 3 credits at the 400 level of any EDTHP course (Sem: 5-8)

REQUIREMENTS FOR THE OPTION: 38-66 credits

BIOLOGICAL SCIENCE TEACHING OPTION (63-66 credits) [18]

OPTION CURRENTLY ON HOLD at Penn State Abington;
NOT ACCEPTING NEW STUDENTS
Begin Date of Enrollment Hold: May 30, 2012
The program will continue to be delivered at University Park and Penn State Erie.

PRESCRIBED COURSES (30 credits)
CHEM 110 GN(3), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 GQ(4) (Sem: 1-2)
BIOL 110 GN(4), BIOL 220W GN(4), BIOL 240W GN(4) (Sem: 1-4)
SCIED 411(3), SCIED 412(3) (Sem: 5-7)

ADDITIONAL COURSES (25-28 credits)
MATH 141 GQ(4) or 4 credits of 200-level STAT GQ courses; BIOL 230W GN(4) or B M B 251(3) and B M B 252(3); BIOL 427(3), GEOOSC 204(4), GEOOSC 424(3), ANTH 021 GN(3) or ANTH 460(3); PHYS 250 GN(4) and PHYS 251 GN(4) or PHYS 211 GN(4) and PHYS 212 GN(4) (Sem: 4-7)
Select 6 credits from B M B 211(3), B M B 212(1), B M B 401(3), B M B 402(3), CHEM 202(3), CHEM 203(3), CHEM 210(3), CHEM 212(3), CHEM 213(2) (Sem: 4-7)

**SUPPORTING COURSES AND RELATED AREAS** (8 credits)
Select 8 credits of 300-level or 400-level BIOL or biological fields (Sem: 5-7)

*Note 1:* Students may complete multiple science teaching options concurrently by completing all of each option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science, Environmental Education, General Science, and Physics.

*Note 2:* Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science certification.

**CHEMISTRY TEACHING OPTION:** (60-62 credits)[18]

**PRESCRIBED COURSES** (42 credits)
CHEM 110 GN(3), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 GQ(4) (Sem: 1-2)
BIOL 110 GN(4), MATH 141 GQ(4), PHYS 211 GN(4), PHYS 212 GN(4) (Sem: 1-4)
CHEM 451(3), CHEM 452(3), CHEM 457(1-2), SCIED 411(3), SCIED 412(3) (Sem: 5-7)

**ADDITIONAL COURSES** (12-14 credits)
CHEM 202(3) and CHEM 203(3) or CHEM 210(3), CHEM 212(3), and CHEM 213(2) (Sem: 3-4)
Select 6 credits from CH E 435(3), or CHEM 402(3), CHEM 406(3), CHEM 408(3), CHEM 410(3), CHEM 412(3), CHEM 423W(3), CHEM 425(4) (Sem: 5-7)

**SUPPORTING COURSES AND RELATED AREAS** (6 credits)
Select 6 credits in CHEM or chemistry-related fields at the 200 level or higher (e.g., B M B 211 and B M B 212, B M B 251, B M B 252, MICRB 251, MICRB 442, FD SC 400, AN SC 301, NUTR 251, CHEM, CH E) (Sem: 5-7)

*Note 1:* Students may complete multiple science teaching options concurrently by completing all of each option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science, Environmental Education, General Science, and Physics.

*Note 2:* Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science certification.

**EARTH AND SPACE SCIENCE TEACHING OPTION:** (57-62 credits)[18]

**PRESCRIBED COURSES** (22 credits)
MATH 140 GQ(4), BIOL 110 GN(4), CHEM 110 GN(3), CHEM 112 GN(3), CHEM 111 GN(1), CHEM 113 GN(1) (Sem: 1-2)
SCIED 411(3), SCIED 412(3) (Sem: 5-7)

**ADDITIONAL COURSES** (27-33 credits)
GEOSC 001(3), GEOSC 020 GN(3) or GEOSC 071(3) (Sem: 1-3)
MATH 141 GQ(4) or 4 credits of 200-level STAT GQ courses (Sem: 1-4)
PHYS 250 GN(4) and PHYS 251 Gn(4), or PHYS 211 GN(4) and PHYS 212 GN(4), or PHYS 211 GN(4) and PHYS 213 GN(2) (Sem: 1-4)
GEOSC 021 GN(3) or GEOSC 204(4); EARTH 100 GN(3), EARTH 101 GN;US(3), EARTH 103 GN(3) or EARTH 105 GN;ILL(3); METEO 003 GN(3), METEO 201(3), or METEO 300(4); ASTRO 010 GN(2) and ASTRO 011 GN(1), or ASTRO 291 GN(3) (Sem: 1-5)
GEOSC 040 GN(3), GEOSC 440(3) or GEOSC 445(4); or METEO 022(2); or BIOL 435(3) or BIOL 482(4) (Sem: 3-6)

**SUPPORTING COURSES AND RELATED AREAS** (8 credits)
Select 8 credits from EARTH, GEOSC, METEO, ASTRO, other earth science field, or BIOL 427(3) (Sem: 5-7)

*Note 1:* Students may complete multiple science teaching options concurrently by completing all of each option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science, Environmental Education, General Science, and Physics.

*Note 2:* Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science certification.

**ENGLISH/COMMUNICATION TEACHING OPTION:** (54 credits)[18] Note: Must complete at least 3 credits of IL and 3 credits of US Cultures selections.

**LANGUAGE AND LITERATURE CORE:** (36 credits)
PRESCRIBED COURSES (12 credits)
ENGL 444(3) (Sem: 5-6)
LL ED 411(3), LL ED 412W(3), LL ED 420(3) (Sem: 5-8)

ADDITIONAL COURSES (24 credits)
Select 3 credits from each cluster (a-h) below:
(a) 200-level British or U.S. Literature Survey (Sem: 3-6)
ENGL 221 GH(3), ENGL 221W(3), ENGL 222 GH(3), ENGL 222W(3), ENGL 231 GH(3), ENGL 231W, ENGL 232 GH(3), ENGL 232W(3)

(b) Elements of Literature (Sem: 3-6)
ENGL 201(3), ENGL 261(3), ENGL 262 GH(3), ENGL 263 GH(3), ENGL 265 GH(3), ENGL 268 GH(3), ENGL 401(3), ENGL 401W(3), COMM 261(3)
(c) 400-level Comparative Literature/Literature of Diverse Cultures (Sem: 5-8)
(d) 400-level Topics in American Literature (sem: 5-8)
ENGL 430(3), ENGL 432(3), ENGL 433(3), ENGL 434(3), ENGL 435(3), ENGL 436(3), ENGL 437(3), ENGL 438(3), or ENGL 439(3), ENGL 492(3); ENGL 401(3), ENGL 402(3), ENGL 404(3) when topic appropriate (with adviser's approval)
(e) Topics in British Literature (Sem: 5-8)
ENGL 440(3), ENGL 441(3), ENGL 442(3), ENGL 443(3), ENGL 445(3), ENGL 446(3), ENGL 447(3), ENGL 448(3), ENGL 450(3), ENGL 452(3), ENGL 453(3), ENGL 454(3), ENGL 455(3), ENGL 456(3), ENGL 457(3), ENGL 458(3), ENGL 489(3); ENGL 401(3), ENGL 402(3), ENGL 404(3) when topic appropriate (with adviser's approval)
(f) Grammar, Language, and Linguistics (Sem: 5-6)
ENGL 100(3), ENGL 407(3), ENGL 417(3), or LING 100 GS(3)

(g) Creative Writing and/or Advanced Composition (Sem: 5-6)

(h) Rhetoric (Sem: 7-8)

MEDIA LITERACIES CORE: (18 credits)
PRESCRIBED COURSES (3 credits)
LL ED 480(3) (Sem: 5-6)

ADDITIONAL COURSES (15 credits)
(a) Mass Media. Select 3 credits from:
COMM 100 GS(3), COMM 118 GS(3), COMM 150 GA(3), COMM 205 US(3), COMM 411(3), COMM 413W(3) (Sem: 1-4)
(b) Speech and Oral Performance. Select 3 credits from:
CAS 211(3), CAS 213(3), CAS 250(3), CAS 271 US;IL(3), CAS 280W(3) or CAS 480(3), CAS 375(3), CAS 422 US(3), THEA 102 GA(3) (Sem: 4-8)
(c) Media Literacy. Select 9 credits within one, or across several, of the following media literacy areas:
Multimedia

Theatre
**Journalism**
COMM 260W(3), COMM 261 GH(3), COMM 269(3), COMM 409(3), COMM 460W(3), COMM 461(3), COMM 462(3), COMM 467(3), COMM 497 when topic appropriate (with adviser's approval) (Sem: 3-8)

**Communication Arts and Sciences**

**Creative Writing**
ENGL 210(3), ENGL 212(3), ENGL 213(3), ENGL 215(3), ENGL 281(3), ENGL 412(3), ENGL 413(3), ENGL 422(3), ENGL 423(3), ENGL 425(3) Sem: (3-8)

**Instructional Systems:**
EDTEC 400(1-3), EDTEC 448(3), EDTEC 566(3), INSYS 200(3), INSYS 441(3), INSYS 446(3) (Sem: 3-8)

**Bilingual Education and World Languages:**
APLNG 482Y IL(3), APLNG 491(3), APLNG 493 IL(3), CAS 271 US;IL(3), CAS 471 US;IL(3), LL ED 445(3), WL ED 411(3), WL ED 412W(3), WL ED 414(3), WL ED 422(3), or a foreign language credits at the 12th credit level or above (Sem: 3-8)

**ENVIRONMENTAL EDUCATION TEACHING OPTION:** (55-58 credits)[18]

**PRESCRIBED COURSES** (24 credits)
CHEM 101 GN(3), MATH 140 GQ(4) (Sem: 1-3)
BIOL 110 GN(4), BIOL 220W GN(4) (Sem: 1-4)
SCIED 411(3), SCIED 412(3), SCIED 457(3) (Sem: 5-7)

**ADDITIONAL COURSES** (7-8 credits)
CHEM 020(3) and CHEM 021(1); or CHEM 110 GN(3) and CHEM 111 GN(1) (Sem: 1-3)
BIOL 240W GN(4), W F S 407(3) or W F S 408(3) (Sem: 3-5)

**SUPPORTING COURSES AND RELATED AREAS** (24-26 credits)
Select two courses (6-8 credits) in environmental law, economics, management and policy (e.g., AG ED 201; ECON 428; E R M 411, E R M 412, E R M 413W; W F S 410, W F S 447W, W F S 463W) (Sem: 4-7)
Select 4 credits of an environmentally related course in Science Technology and Society (e.g., S T S 047, S T S 135 GS, S T S 327, S T S 420, S T S 460, S T S 471) (Sem: 5-7)
Select at least 14 credits from the cohort Teaching option (see Note 1)

**Note 1:** This option may only be completed in conjunction with another secondary teaching option, such as the Biological Science Teaching option.

**Note 2:** Students may complete multiple science teaching options concurrently by completing all of each option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science, Environmental Education, General Science, and Physics.

**Note 3:** Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science certification.

**GENERAL SCIENCE TEACHING OPTION:** (38 credits)[18]

**PRESCRIBED COURSES** (22 credits)
CHEM 110 GN(3), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 GQ(4) (Sem: 1-3)
BIOL 110 GN(4) (Sem: 1-4)
SCIED 411(3), SCIED 412(3) (Sem: 5-7)

**ADDITIONAL COURSES** (16 credits)
BIOL 220W GN(4), BIOL 230W GN(4), or BIOL 240W GN(4) (Sem: 3-5)
MATH 141 GQ(4) or 4 credits of 200-level STAT GQ courses (Sem: 3-5)
PHYS 250 GN(4) and PHYS 251 GN(4) or PHYS 211 GN(4) and PHYS 212 GN(4) (Sem: 3-5)

**Note 1:** This option may only be completed in conjunction with another secondary teaching option, such as Biology.

**Note 2:** Students may complete multiple science teaching options concurrently by completing all of each option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science, Environmental Education, General Science, and Physics.

**Note 3:** Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science certification.
MATHEMATICS TEACHING OPTION: (57-59 credits)

PRESCRIBED COURSES (35-37 credits)
MATH 140 GQ(4), MATH 141 GQ(4) (Sem: 1-2)
MATH 220 GQ(2-3), MATH 311W(3-4) (Sem: 3-6)
MATH 310(3), MATH 312(3), MATH 414(3), MATH 471(4), MTHED 411(3), MTHED 412W(3), MTHED 427(3)
(Sem: 5-8)

ADDITIONAL COURSES (16 credits)
CMPSC 101 GQ(3) or CMPSC 121 GQ(3); MATH 230(4) or MATH 231(2) and MATH 232(2); STAT 401(3) or
MATH 415(3) or 3 credits of MTHED from program list; MATH 435(3) or MATH 470(3); MATH 436(3) or MATH
441(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (6 credits)
Select 6 credits from 400-level MATH or MTHED courses (Sem: 5-8)

PHYSICS TEACHING OPTION: (55-62 credits)

PRESCRIBED COURSES (45-46 credits)
CHEM 110 GN(3), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 GQ(4), MATH 141 GQ(4)
(Sem: 1-3)
PHYS 211 GN(4), PHYS 212 GN(4) (Sem: 3-4)
MATH 220 GQ(2-3), PHYS 213 GN(2), PHYS 214 GN(2) (Sem: 3-6)
PHYS 237(3), PHYS 400(3), PHYS 419(3), SCIED 411(3), SCIED 412(3) (Sem: 5-7)

ADDITIONAL COURSES (6-12 credits)
PHYS 457(1-3), or PHYS 402(4) or PHYS 458(4); MATH 230(4) or MATH 231(2); MATH 250(3) or MATH 251(4)
(Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS (4 credits)
Introductory biological sciences survey courses [e.g., BIOL 110 GN(4)] (Sem: 3-6)

Note 1: Students may complete multiple science teaching options concurrently by completing all of each
option's requirements. The six science teaching options are: Biology, Chemistry, Earth and Space Science,

Note 2: Red Cross certification in First Aid and CPR (or their equivalent) must be earned for science
certification.

SOCIAL STUDIES TEACHING OPTION: (57 credits)

PRESCRIBED COURSES (24 credits)
ECON 104 GS(3), GEOG 010 GN(3), GEOG 020 GS(3), HIST 020 GH;US(3), HIST 021 GH;US(3), PL SC 001 GS(3)
(Sem: 1-6)
SS ED 411(3), SS ED 412W(3) (Sem: 5-8)

ADDITIONAL COURSES (12 credits)
Select 3 credits from HIST 001 GH;IL(3) or HIST 010 GH;IL(3) (Sem: 1-6)
Select 3 credits from HIST 002 GH;IL(3) or HIST 011GH;IL(3) (Sem: 1-6)
Select 3 credits from GEOG 030 GS;IL(3), GEOG 040 GS;IL(3), or GEOG 160 GS(3) (Sem: 1-8)
Select 3 credits from: ANTH 045 GS;US;IL(3), ECON 102 GS(3), PL SC 003 GS;IL(3), PL SC 014 GS;IL(3), SOC
001 GS(3), SS ED 200 US(3) (Sem: 1-8)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
Select 6 credits of 400-level History (Sem: 5-8)

Select one concentration (15 credits) below:

Citizenship Education
Select 3 credits from: ECON 102 GS(3), ECON 302 GS(3), ECON 304 GS(3), ECON 315 GS(3), ECON 323
GS(3), ECON 333 GS(3), or ECON 342 GS(3) (Sem: 1-8)
Select 3 credits from: GEOG 030 GS;IL(3), GEOG 040 GS;IL(3), GEOG 120 GS;US;IL(3), GEOG 122 GH;US(3),
GEOG 123 GS;IL(3), GEOG 124 GS;IL(3), GEOG 126 GS;US;IL(3), GEOG 128 GS;IL(3), GEOG 130 GS(3), or GEOG
160 GS(3) (Sem: 1-8)
Select 3 credits from: PL SC 003 GS;IL(3), PL SC 007 GS(3), PL SC 014 GS;IL(3), PL SC 110 GS;US(3), PL SC 123
GS;US;IL(3), PL SC 125(3), or PL SC 130 GS;US(3) (Sem: 1-8)
Select 6 credits from SS ED 200 US(3) or HIST at the 100-level or above (Sem: 1-8)

Civics and Government
PL SC 003 GS;IL(3) (Sem: 1-8)
PL SC 014 GS;IL(3) (Sem: 1-8)
Select 3 credits from: PL SC 007 GS(3), PL SC 110 GS;US(3), PL SC 123 GS;US;IL(3), PL SC 125(3), or PL SC 130 GS;US(3) (Sem: 1-8)
Select 6 credits of 400-level Political Science (Sem: 5-8)

**Economics**
ECON 102 GS(3) (Sem: 1-8)
ECON 302 GS(3) (Sem: 1-8)
ECON 304 GS(3) (Sem: 1-8)
Select 6 credits of 400-level Economics (Sem: 5-8)

**Geography**
GEOG 160 GS(3) (Sem: 1-8)
Select 3 credits from: GEOG 120 GS;US;IL(3), GEOG 122 GH;US(3), GEOG 123 GS;IL(3), GEOG 124 GS;IL(3), GEOG 126 GS;US;IL(3), GEOG 128 GS;IL(3), or GEOG 130 GS(3) (Sem: 1-8)
Select 3 credits from GEOG 110 GN(3), GEOG 111 GN(3), or GEOG 115 GN(3) (Sem: 1-8)
Select 6 credits of 400-level Geography (Sem: 5-8)

**Social Sciences**
Select 9 credits of Anthropology, Psychology, and/or Sociology below the 400 level (Sem: 1-8)
Select 6 credits of 400-level Anthropology, Psychology, and/or Sociology (Sem: 5-8)

Note 1: Courses taken to meet Additional Courses and other Supporting Courses and Related Areas requirements cannot also be applied to the concentration. Different courses need to be selected for the concentration and Additional Courses and other Supporting Courses and Related Areas requirements.

18 A grade of C or better per course is required for teacher certification.

**Penn State Erie/Mathematics Option Only (3/7/07)**
Last Revised by the Department: Spring Semester 2013
Blue Sheet Item #: 41-05-083
Review Date: 02/19/2013
R & T: 01/14/2014
UCA Revision #1: 9/1/06
UCA Revision #2: 7/30/07
ED
Director updated: 2/13/12

**Associate Degrees**

**Business Administration**

*Abington College (2BAAB)*
*Altoona College (2BAAL)*
*Berk College (2BABL)*
*Capital College (2BACA)*

*University College (2BACC): Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Hazleton, Penn State Mont Alto, Penn State New Kensington, Penn State Lehigh Valley, Penn State Schuylkill, Penn State Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York*

University College (2BACC): Via World Campus

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

The associate degree program in Business Administration provides a foundation in business that, through two options, prepares graduates for either entrance to the Bachelor of Science in Business (BSB) programs in business or for direct entry into the work place. The primary objective of this major is to provide a business-oriented program with sufficient communicative and mathematical skills, socially relevant course work, and specific business specialties to develop a well-rounded and knowledgeable graduate.

The General Business Option provides an introductory foundation to core aspects of the business
environment while also preparing students for future transfer into the Bachelor of Science in Business (BSB).

The Professional Studies Option provides a technically oriented program that prepares students for direct entry into the work force. Because some of the course work in this option is not accepted in baccalaureate business programs, students are encouraged to work closely with faculty and staff advisers.

Students who plan to continue into BSB should meet with their advisers regarding entrance to major and other related requirements.

For the Associate in Science degree in Business Administration, a minimum of 60 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 21 credits
(9 credits of these 21 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 48-50 credits
(This includes 3 credits of GQ General Education courses and 6 credits of GWS General Education courses.)

COMMON REQUIREMENTS FOR THE MAJOR (ALL OPTIONS): 30-31 credits

PRESCRIBED COURSES (13 credits)
CAS 100 GWS(3) (Sem: 2-4)  
ACCTG 211(4), ENGL 202D GWS(3)[1], MIS 204(3) (Sem: 2-4)  

ADDITIONAL COURSES (17-18 credits)
ENGL 015 GWS(3)[1] or ENGL 030 GWS(3)[1] (Sem: 1-2)
MATH 021 GQ(3), MATH 022 GQ(3), or MATH 110 GQ(4) (Sem: 1-2) [74]  
B A 243(4)[1] or B A 241(2)[1] and B A 242(2)[1] (Sem: 1-4)
ECON 102 GS(3) or ECON 104 GS(3) (Sem: 1-4)
SCM 200 GQ(4) or STAT 200 GQ(4) (Sem: 2-4)

REQUIREMENTS FOR THE OPTION: 18-19 credits
(Both options may not be available at every campus.)

GENERAL BUSINESS OPTION: (18-19 credits)

ADDITIONAL COURSES (18-19 credits)
a) Select 3 credits from MGMT 301(3)[1] or MGMT 301W(3)[1] (Sem: 3-4)  
b) Select 3 credits from MKTG 301(3)[1] or MKTG 301W(3)[1] (Sem: 3-4)  
c) Select 12-13 credits from B A 250(3); CAS 250(3) or CAS 252(3); LER 100 GS(3) or LER 136 US(3); ECON 102 GS(3) or ECON 104 GS(3); MATH 022 GQ(3), MATH 110 GQ(4), MKTG 220(3) (Sem: 1-4)

PROFESSIONAL STUDIES OPTION: (18 credits) [75]

ADDITIONAL COURSES (18 credits)
Select 18 credits from ACCTG 151(3), ACCTG 152(3), ACCTG 153(3), ACCTG 160(3), B A 100 GS(3), B A 250(3); ECON 102 GS(3) or ECON 104 GS(3); CMPSC 109(3), FIN 100(3), FIN 108(3), H P A 101(3), IST 110 GS(3), IST 210(3), IST 220(3), IST 250(3), LER 100 GS(3), LER 136 US(3); MGMT 100(3) or MGMT 100W(3); MKTG 150(3), MIS 103(3), MIS 106(1-6); MIS 190(3), MKTG 220(3); MKTG 221(3) or MKTG 221W(3); R M 100(3) (Sem: 1-4)  

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.  
[74] Students should work closely with academic advisers to ensure the completion of any and all course work required for entrance to BSB.  
[75] This Option is designed for students planning to enter the work force directly upon graduation. Some courses included in this option will not transfer into baccalaureate business programs. Students are encouraged to work closely with their advisers.

Last Revised by the Department: Fall Semester 2007

Blue Sheet Item #: 35-06-534

Review Date: 4/10/07

UCA Revision #: 1: 8/9/06  
UCA Revision #: 2: 7/26/07

UC
The objectives of the Letters, Arts, and Sciences major are to broaden the student's understanding, interests, and skills; to help the student become a more responsible, productive member of the family and community; and to offer a degree program with sufficient electives to permit some specialization according to the student's interests or career plans. Letters, Arts, and Sciences is a complete two-year degree major. However, graduates who later seek admission to baccalaureate degree majors may apply baccalaureate credits toward the new degree.

In addition to a wide variety of baccalaureate majors offered at University Park campus, graduates of the Letters, Arts, and Sciences major may qualify for admission to the baccalaureate degree majors in Behavioral Sciences, Elementary Education, Humanities, or Public Policy offered at Penn State Harrisburg. Or they may qualify for any of a large number of baccalaureate degree majors offered by Penn State Erie, The Behrend College, in business, the liberal arts, and sciences.

For the Associate in Arts degree in Letters, Arts, and Sciences, a minimum of 60 credits is required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

GENERAL EDUCATION: 21 credits
(6 of these 21 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

ELECTIVES: 15 credits

REQUIREMENTS FOR THE MAJOR: 30 credits# [1]
(This includes 6 credits of General Education GWS courses.)

PRESCRIBED COURSES (6 credits)
ENGL 015 GWS(3) (Sem: 1-2)
CAS 100 GWS(3) (Sem: 3-4)

ADDITIONAL COURSE (3 credits)
ENGL 202A GWS(3), ENGL 202B GWS(3), ENGL 202C GWS(3), or ENGL 202D GWS(3) (Sem: 3-4)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
Select 3 credits in any course designated as arts* (Sem: 1-4)
Select 3 credits in any course designated as humanities* (Sem: 1-4)
Select 3 credits in any course designated as social and behavioral sciences* (Sem: 1-4)
Select 3 credits in any course designated as physical, biological, or earth sciences* (Sem: 1-4)
Select 9 credits in any one of the following areas*: arts, humanities, social and behavioral sciences, natural sciences and quantification, and foreign language skills. (If foreign language courses are chosen, it is recommended that these courses be in one foreign language sequence.) (Sem: 1-4)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

# The required credits of General Education and Requirements for the Major must be baccalaureate-level courses. For students intending to seek admission to a baccalaureate program upon graduation, it is recommended that most, if not all, of the courses be at the baccalaureate level. For those students who will seek a bachelor of arts degree upon graduation from Letters, Arts, and Sciences, it is strongly recommended that a foreign language be taken since admission to a bachelor of arts program in the College of the Liberal Arts requires one college-level course, or the equivalent, in a foreign language.

*Courses that will satisfy the arts, humanities, social and behavioral sciences, natural sciences, and quantification requirements are defined on the Letters, Arts, and Sciences checksheet, which may be obtained from the College of the Liberal Arts associate dean for undergraduate studies at the University.
Park campus or from any Letters, Arts, and Sciences representative at other locations.

Last Revised by the Department: Summer Session 1988

Blue Sheet Item #: 16-10-044

Review Date: 10/8/02

Reviewed by Publications: 06/23/06

LA

Minors

African American Studies Minor (AFAMR)

Contacts: Abington College, Tom Smith, trs8@psu.edu; College of the Liberal Arts, Darryl Thomas, dct10@psu.edu

The Department of African and African American Studies awards a certificate to students who, in addition to meeting the requirements for a major, complete 18 credits in the African American Studies minor. This minor is designed for students interested in African American culture and the educational, social, political, and economic development of people of African descent in the United States. In particular, it provides students with the opportunity to explore the experiences of African Americans using theories and methods originating in the field. Students are made aware of the potential to apply such knowledge to the solution of social, political, and economic problems. The minor also promotes greater understanding of the relationship between African Americans and other ethnic groups.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES (9 credits)
AF AM 100 GS;US(3), AF AM/WMNST 101 GH;US(3), AFR 110 GS;IL(3) (Sem: 1-4)

ADDITIONAL COURSES (9 credits)
Select 9 credits; at least 6 credits of AAA S courses must be at the 400 level

Last Revised by the Department: Summer Session 2005

Blue Sheet Item #: 33-01-132

Review Date: 8/31/04

UCA Revision #2: 7/26/07

LA

American Studies Minor

Capital College (AMSTD)

Capital College - Simon Bronner, sib2@psu.edu
Abington College - Thomas Smith, trs8@psu.edu
Penn State Brandywine - Julie Gallagher, jag63@psu.edu
Penn State Fayette - Jay Precht, jhp21@psu.edu
Penn State York - Robert Farrell, jrf10@psu.edu
This interdisciplinary minor is designed for students who want to complement their major program. American Studies is an interdisciplinary field that explores the patterns of life and thought of the American peoples, past and present. American Studies helps students prepare for further study or careers in education, government, business, science, communication, law, museums, historical and cultural agencies, and archives. Internships are available for qualified students in American Studies. The internship is an extension of the student's academic studies and is an opportunity to gain practical experience.

A student seeking admission to the American Studies Minor must first be admitted to a major at Penn State. Upon admission, a Minor Adviser will be appointed from within the American Studies faculty to guide the student. For the American Studies Minor, a total of 18 credits is required. At least 6 credits must be at the 400 level.

A grade of C or better is required for all courses in the minor.

**REQUIREMENTS FOR THE MINOR:** 18 credits

**PRESCRIBED COURSES** (3 credits)
AM ST 491W(3) (Sem: 5-8)

**ADDITIONAL COURSES** (15 credits)
AM ST 100 GH;US(3) or AM ST 100W GH(3) (Sem: 1-4)
Select 12 credits from any American Studies offerings (AM ST) or from courses related to American Studies chosen from a list provided by the college. At least six of those credits must be at the 400 level.
Substitutions must be approved by the American Studies Program head at the appropriate college. (Sem: 5-8)

Last Revised by the Department: Fall Semester 2013
Blue Sheet Item #: 42-02-019
Review Date: 10/08/2013
UCA Revision #2: 7/26/07
CL

**Anthropology Minor (ANTH)**

*Contacts: Abington College, Manohar Singh, m.singh@psu.edu; College of the Liberal Arts, Pat Johnson, plj2@psu.edu*

The Anthropology minor is designed to provide undergraduate students with exposure to the range of human variation across time and space. Our minors enroll in courses that explore that variation through the subdisciplines of archaeological, biological, and cultural anthropology. We maintain laboratory facilities in all three subdisciplines and the Matson Museum of Anthropology, all excellent learning facilities for our students. In addition, the department offers summer field school opportunities in cultural anthropology and archaeology. A Minor in Anthropology is excellent preparation for further study in any discipline that requires ability to understand and deal with other cultures, for example, teaching, counseling, business, medicine, law, or communications.

A grade of C or better is required for all courses in the minor.

*Scheduling Recommendation by Semester Standing given like (Sem: 1-2)*

**REQUIREMENTS FOR THE MINOR:** 18 credits

**PRESCRIBED COURSES** (9 credits)
ANTH 002 GS(3), ANTH 021 GN(3), ANTH 045 GS;US;IL(3) (Sem: 1-6)

**SUPPORTING COURSES AND RELATED AREAS** (9 credits)
Select 3 credits from any ANTH course except ANTH 001 GS;US;IL(3) (Sem: 1-8)
Select 6 credits from the ANTH 400-489 range (Sem: 3-6)

Last Revised by the Department: Fall Semester 2001
Review Date: 4/9/02

LA
Asian Studies Minor

Abington
University Park, College of the Liberal Arts (ASIA)

This is an interdisciplinary minor designed for students with special interests in the Asian area. In addition to the requirements of the student's major department, the minor consists of 21 credits selected from such disciplines as anthropology, art history, economics, geography, history, linguistics, literature, philosophy, political science, religious studies, speech, theatre arts, and appropriate Asian languages.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 21 credits

PRESCRIBED COURSES (3 credits)
ASIA 100 GH;IL(3) (Sem: 1-4)

ADDITIONAL COURSES (3 credits)
HIST 174 GH;IL(3), HIST 175 GH;IL(3), HIST 176 GH;IL(3), or RL ST 003 GH;US;IL(3) (Sem:3-6)

SUPPORTING COURSES AND RELATED AREAS (15 credits)
Select 15 credits from a departmental list, at least 6 at the 400 level; independent study credits selected in consultation with adviser; additional further credits in language studies beyond the first semester may be permitted up to 15 credits. (Sem: 1-8)

Courses not on the list that deal substantially with some aspect of Asia in any discipline may also count, pending approval of an adviser. Students seeking to combine an Asian Studies minor with a major in an Asian language (such as CHNS or JAPNS) may include up to 15 credits of language study in a SECOND Asian language, but must have at least 3 courses that do not overlap with their other major(s) or minor(s) in Asian Studies or other Asian languages.

Lasted Revised by the Department: Summer Session 2014

Blue Sheet Item #: 43-01-066

Review Date: 08/19/2014

LA

Business Minor

University College via World Campus

Contacts: Business Minor Contact at campuses offering the BSB major or University College at: sah43@psu.edu

The Business minor is a strong complement to virtually any major. Courses prescribed for the minor are taught by Penn State faculty providing courses to the B.S. in Business and the A.S. in Business Administration. It provides students with the opportunity to develop and apply skills appropriate to the business contexts of their chosen majors. Students pursuing the Business minor must complete thirteen credits of prescribed course work and six credits of additional course work. A grade of C or better is required for all courses in the minor. The prescribed thirteen credits of coursework presents students with a critical foundation of core business disciplines: accounting, management, marketing, and either macro- or micro-economics. The six credits of additional coursework must be taken at the 400-level.

The additional coursework enables students to expand on the core foundation in one of two ways. They may choose to solidify their business knowledge base by exploring six credits of 400-level business courses in the following disciplines: Accounting; Business Administration; Business Law; Energy Business and Finance; Economics; Entrepreneurship; Finance; Financial Services; Health Policy and Administration; International Business; Labor Studies and Employment Relations; Management Information Systems; Management; Marketing; Risk Management; Supply Chain Management; or Statistics. Alternately, students can augment three credits of 400-level coursework in one of the above listed business disciplines with three credits of 400-level work from an approved list of specific business-related course in disciplines such as Communication Arts and Sciences; Corporate Communication; Communications; Criminal Justice; Engineering; English; Human Development and Family Studies; History; Hospitality Management; Information Sciences and Technology; Kinesiology; Philosophy; Political Science; Psychology; Recreation,
REQUIREMENTS FOR THE MINOR: 19 credits

PRESCRIBED COURSES: (10 credits)
ACCTG 211(4) (Sem: 1-5)
MGMT 301(3), MKTG 301(3) (Sem: 5-8)

ADDITIONAL COURSES: (3 credits)
Select 3 credits from ECON 102 GS(3) or ECON 104 GS(3) (Sem: 1-5)

SUPPORTING COURSES AND RELATED AREAS: (6 credits)
Select 3-6 credits at the 400 level from:
ACCTG, B A, B LAW, E B F, ECON, ENTR, FIN, FINSV, H P A, I B, LER, MIS, MGMT, MKTG, R M, SCM, or STAT
(Sem: 5-8)
Select 0-3 credits at the 400-level from:
CAS 404(3), CAS 452(3), CAS 483(3), CC 401(3), CC 403W(3), COMM 421W(3), COMM 427(3), COMM 471(3),
CRIMJ 408(3), CRIMJ/SOC 467(3), ENGL 419(3), ENGL 420(3), ENGR 425(3), HD FS 401(3), HD FS 424(3), HD
404(3), PSYCH 408(3), PSYCH 423(3), PSYCH 482(3), PSYCH 484(3), PSYCH 485(3), RPTM 410(3), RPTM
415(3), RPTM 470(3), SOC 455(3), SOC 456(3) (Sem: 5-8)

Last Revised by the Department: Fall Semester 2014

Blue Sheet Item #: 43-03-174

Review Date: 11/18/2014

UCA Revision #1: 8/3/06

Comments

Communication Arts and Sciences Minor (CAS)

Contact: College of the Liberal Arts, Peter Miraldi, pnm10@psu.edu; Penn State York, Dr. Deborah
Eicher-Catt, die4@psu.edu

This minor provides understanding and practice in the ways humans achieve their personal and career
goals by means of communication. Students may choose any of the department's pathways of
specialization, such as Interpersonal, Family, Intercultural, Organizational, Legal, Political Communication
and Presentation Skills, Communication and Technology, or Rhetoric. For example, Legal Communication
focuses on communication within the legal system, and provides students with the theory and skills to
understand the uses, evaluation, and structure of public policy and legal disputes. Students learn how
perception, meaning, and conflict function in human communication if they choose to specialize in
Interpersonal Communication, while Organizational Communication critically examines leadership,
decision-making, interviewing, and teamwork in formal organizations. In coordination with an adviser, a
student of any major may tailor this minor to complement his or her educational and career goals by
pursuing a particular pathway.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem:1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

ADDITIONAL COURSES (6 credits)
Select 3 credits from CAS 203(3), CAS 205(3), CAS 211(3), CAS 213(3), CAS 214W(3), CAS 215(3), CAS
250(3), CAS 252(3), CAS 271 US:IL(3), CAS 280W(3), or CAS 283(3) (Sem: 3-6)
Select 3 credits from CAS 200(3), CAS 201 GH(3), or CAS 202(3) (Sem: 3-8)

SUPPORTING COURSES AND RELATED AREAS (12 credits)
Select 6 credits of Communication Arts and Sciences courses (Sem: 1-8)
Select 6 credits of Communication Arts and Sciences courses at the 400 level (Sem: 1-8)
Note: CAS 100 GWS(3), CAS 126(3), or CAS 195(1) may not be counted as part of the minor.
Criminal Justice Minor

Abington College (CJ)
Altoona College (CJ)
Penn State Berks - Jennifer Murphy
Penn State Fayette (CJCC)
Penn State Harrisburg contact: Shaun Gabbidon, sig13@psu.edu
Penn State World Campus

The Criminal Justice minor provides an overview of the criminal justice system and a thorough grounding in criminological theory. Students receive an in-depth look at the three main system components: policing, courts, and corrections, as well as the opportunity to delve into two or more specialized topics relating to criminal justice. The minor is designed not only for students who have a professional interest in criminal justice, but also for those who want to be informed members of the voting citizenry. A functional understanding of crime and the criminal justice system is useful in many careers, including law, social work, education, and journalism.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES: (12 credits)
CRIMJ 100(3) (Sem:1-4)
CRIMJ 210(3), CRIMJ 220(3), CRIMJ 230(3) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS: (6 credits)
Select 6 credits of 400-level CRIMJ courses, excluding CRIMJ 495(1-18) (Sem: 7-8)

English Minor (ENGL)

University Park, College of the Liberal Arts (ENGL)

Contact: Abington College, Tom Smith, trs8@psu.edu; Altoona College, Erin Murphy, ecm14@psu.edu; Penn State Brandywine, Adam Sorkin, ajs2@psu.edu; Penn State Fayette, Danielle Mitchell, dmm52@psu.edu; Penn State Greater Allegheny, Mildred Mickle, mrm33@psu.edu; Penn State Mont Alto, Kevin Boon, kab25@psu.edu; Penn State Wilkes-Barre, Steve Putzel, sdp4@psu.edu; College of the Liberal Arts, Elizabeth Brown, eaf4@psu.edu; Penn State York, Dr. Jennifer Nesbitt, jpn12@psu.edu

A grade of C or better is required for all courses in the minor.

For the minor in English a minimum of 18 credits are required.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

SUPPORTING COURSES AND RELATED AREAS: (18 credits)
Students may not count courses used to satisfy General Education Writing/Speaking Skills
Select 6 credits from ENGL 200-299 (Sem: 3-8)
History Minor (HIST)

Contact: Abington College, Tom Smith, trs8@psu.edu; Altoona College, Marc Harris, mlh6@psu.edu; College of the Liberal Arts, Mike Milligan, mjm61@psu.edu; Penn State Berks, Randall Fegley, raf8@psu.edu

The minor in history is designed to complement a wide range of social studies and humanities majors by affording students the opportunity to examine change and development in human societies over time. Students are free to select courses in the topics (military history, social history, cultural history, etc.), geographical areas (the United States, Latin America, Europe, Asia, and Africa), and time periods that most suit their needs and interests. The requirements for entering the minor are fifth semester standing (eligible courses taken previously will count toward the minor) and having already declared a major.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

SUPPORTING COURSES AND RELATED AREAS: (18 credits)
Select 12 credits of HIST courses (Sem: 1-8)
Select 6 credits of 400-level HIST courses (Sem: 5-8)

Human Development and Family Studies Minor (HD FS)

Contact: Abington College, Manohar Singh, m.singh@psu.edu; Altoona College, Margaret Benson, enz@psu.edu; College of Health and Human Development, Devon M. Thomas, dmc233@psu.edu; Penn State York, Dr. JeanMarie St. Clair-Christman, jxs176@psu.edu

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES (3 credits)
HD FS 129 GS(3) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (15 credits)
Select 9 credits of HD FS courses (Sem: 1-6)
Select 6 credits of 400-level HD FS courses (Sem: 5-8)

Information Sciences and Technology Minor

Abington College
Berks College
Capital College
University College: Penn State Beaver, Penn State Brandywine, Penn State Greater Allegheny, Penn State Hazleton, Penn State Lehigh Valley, Penn State New Kensington, Penn State Schuylkill, Penn State
This minor is structured to provide students with the theoretical frameworks and skill sets necessary to compete and be productive in the information technology-intensive global context that defines the new "Information Age." Specifically, the minor will be focused on a program that will build an understanding of core information technologies and related areas of study; will prepare students for the practical application of various information sciences and related technologies; and engage students in sharpening their abilities to think critically and to work in teams. All this will be done with the intent to expose students to the cognitive, social, institutional, and global environments of Information Sciences and Technology and to then apply that knowledge as a supplement to their major.

A grade of C or better is required for all courses in this minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES (9 credits)
IST 110 GS(3), IST 210(3), IST 220(3) (Sem 1-6)

ADDITIONAL COURSES (9 credits)
Select 3 credits from IST 250(3), IST 301(3), or IST 302(3) (Sem 5-8).
Select 6 credits from IST 402(3), IST 431(3), or IST 432(3) (Sem 5-8).

Last Revised by the Department: Fall Semester 2014

Blue Sheet Item #: 43-03-085

Review Date: 11/18/2014

International Studies Minor (INSTD)

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The International Studies minor is intended to recognize, for undergraduate students in any major, the completion of an education abroad program, foreign language competency, and related advanced coursework. Ideally, the language, international, and advanced study should be integrated around some thematic or geographical focus.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18-30 credits

SUPPORTING COURSES AND RELATED AREAS (18-30 credits)
12th-credit-level proficiency in one foreign language demonstrated by course work or examination (Sem: 1-4)

Students must complete 12 credits as participants in an approved Penn State Education Abroad Program, no more than 6 credits of which may be foreign language study beyond the 12-credit level (Sem: 5-6).

Select 6 credits (400 level) related to the education abroad experience, or the student's major, or to complete a thematic concentration. Courses must be selected from the approved list of courses with international focus or in consultation with the International Studies Minor adviser (Sem: 5-8).

Last Revised by the Department: Fall Semester 1994

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Review Date: 1/30/00
Psychology Minor (PSY)

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The Psychology minor is designed to provide undergraduate students with a broad overview of topics and domains within psychology, knowledge and skills related to research methods in psychology, and deeper knowledge of research, theory, and application in one or two specific content domains. Students completing this minor will find a flexible selection of coursework in psychology. The content domains from which students may select courses include biological, clinical, cognitive, developmental, industrial-organizational, and social psychology. Students may choose courses that emphasize theory or application of psychological principles. A number of these courses examine the application of psychological research to societal issues.

The required research methods course, PSYCH 301W, carries a statistics prerequisite that can be met by either PSYCH 200 or STAT 200. STAT 200 does not count toward the minimum 18 credits required for the minor. Students minoring in Psychology at University Park are encouraged to consult the Psychology Advising Center early in the process of planning their minor.

The Psychology minor may be appropriate for students pursuing graduate training or professional careers in fields such as health, business, education, and human services, as well as in psychology.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES (7 credits)
PSYCH 100 GS(3), PSYCH 301W(4) (Sem: 1-4)

ADDITIONAL COURSES (11 credits)
Select 11 credits (at least 6 credits at the 400 level) in PSYCH (Sem: 5-8)

Last Revised by the Department: Fall Semester 2001
Review Date: 12/20/02
UCA Revision #1: 8/14/06

Religious Studies Minor

Abington
University Park, College of the Liberal Arts (RL ST)

The minor in Religious Studies requires 18 hours of course work in RL ST. It (1) acquaints the student with the methods for studying religion (how one studies a religion), (2) provides an elementary introduction to the world's main religious traditions (names, dates, ideas, similarities and differences), and (3) offers the opportunity to investigate a particular topic or religion in greater detail. Students are required to take one survey course (either RL ST 001, RL ST 003, or RL ST 004), which provides a broad historical overview of several religions, from their foundation to the present day.

The interaction between religions and their cultural contexts is emphasized, as is the evolution of an individual religion. After this introduction, the student is free to choose from a broad array of courses on the psychological, sociological, historical, and textual aspects of religions, both living and dead, both familiar and foreign. For example, a student may study Hinduism, Islam, Christianity, Norse religion, Greco-Roman religion, or the sociological aspects of religions. Reading skills and critical thinking skills are important and will be further developed in the courses.

The minor is excellent preparation for a career in the professions (law, medicine), and many students use this classical humanities topic to augment a major in the pure sciences.

A grade of C or better is required for all courses in the minor.
Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

ADDITIONAL COURSES (3 credits)
Select 3 credits from RL ST 001 GH;US;IL(3), RL ST 003 GH;US;IL(3), or RL ST 004 GH;US;IL(3) (Sem: 1-6)

SUPPORTING COURSES AND RELATED AREAS (15 credits)
Select 15 credits (at least 6 credits at the 400-level) in Religious Studies (Sem: 3-8)

Last Revised by the Department: Summer Session 1995
Blue Sheet Item #: 23-06-147
Review Date: 3/11/03

Sociology Minor (SOC)

Contact: Abington College, Manohar Singh, m.singh@psu.edu; Altoona College, Karyn McKinney, kdm12@psu.edu; Capital College, Kenneth Cunningham, kuc1@psu.edu; Penn State Fayette, Russ Filburn, frf1@psu.edu; Penn State Schuylkill, Salih Hakan Can, shc11@psu.edu; College of the Liberal Arts, Sal Oropesa, rso1@psu.edu

The sociology minor allows students to explore the wide range of topics, social groups, and social interactions studied by sociologists. From social inequalities and social problems to the familiar institutions of family, school, religion, and government, the diversity of courses available allows sociology minors to explore courses relevant to their interests. The courses also provide multiple viewpoints, studying the intimate interactions of families and small groups and the complex interactions of global economies and political alliances. Requiring a minimum of 18 credits in sociology, including Introductory Sociology (SOC 001) and two courses at the 400 level, students have flexibility in choosing a set of courses for their sociology minor.

A grade of C or better is required for all courses in the minor.

Scheduling Recommendation by Semester Standing given like (Sem: 1-2)

REQUIREMENTS FOR THE MINOR: 18 credits

PRESENTED COURSES (3 credits)
SOC 001 GS(3) (Sem: 1-6)

SUPPORTING COURSES AND RELATED AREAS (15 credits)
Select 15 credits in sociology; at least 6 of those credits must be at the 400 level (Sem: 1-8)

Last Revised by the Department: Fall Semester 2001
Editorial: 3/23/07

Women's Studies Minor (WMNST)

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This interdisciplinary minor is designed to develop a broad understanding of the study of women and women's perspectives in all areas of academic scholarship. The primary focus is on feminist analyses of women's lives, women's social, cultural, and scientific contributions, and the structure of sex/gender systems. The interdisciplinary and inclusive nature of the field is reflected in a curriculum that includes courses cross-listed with a wide variety of departments, courses that deal with aspects of women's lives throughout history, and courses that recognize the diversities of culture, race, religion, ethnicity, age,
disability, and sexual orientation. The Women's Studies minor emphasizes the development of critical and analytical skills, creative approaches to problem solving, and the ability to articulate productive alternatives.

Women's Studies minors have a definite career advantage, and can be successful in a wide variety of career paths. Some of these include legal advocacy, counseling, journalism, public relations, management, nonprofit administration, teaching, medicine, politics, or art. In addition, many alumnae/i are currently studying in professional, law, or graduate schools.

A grade of C or better is required for all courses in the minor.

*Scheduling Recommendation by Semester Standing given like (Sem: 1-2)*

**REQUIREMENTS FOR THE MINOR:** 18 credits

**PRESCRIBED COURSES** (3 credits)
WMNST 301 GH(3) (Sem: 1-4)

**ADDITIONAL COURSES** (3 credits)
WMNST 100 GS;US;IL(3) or WMNST 106 GS;US;IL (Sem: 1-4)

**SUPPORTING COURSES AND RELATED AREAS** (12 credits)
Select 12 credits in Women's Studies or from the program-approved list; at least 6 credits must be at the 400-level
--3 credits from each of the following categories: (Sem: 1-8)
   a. arts or humanities
   b. natural or social sciences
   c. focusing on non-Western women or on women of color in the United States

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Blue Sheet Item #: 30-02-008A

Review Date: 6/29/05