



University Bulletin

Undergraduate Degree Programs

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 the "Majors and Minors" link 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 <http://www.abington.psu.edu/psasite/ce> (<http://www.abington.psu.edu/psasite/ce>), on the Web.

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 be counted only once toward the total number of credits required for graduation.

See http://bulletins.psu.edu/bulletins/bluebook/ba_requirements.cfm (http://bulletins.psu.edu/bulletins/bluebook/ba_requirements.cfm) for courses that meet University-wide bachelor of arts degree requirements.

PENN STATE ABINGTON

KAREN WILEY SANDLER, *Chancellor*

SAMIR OUZOMGI, *Acting Associate Dean*

COLLEGE ACADEMIC ORGANIZATION

Arts and Humanities Division -- KAREN E. WEEKES, *Head*

Continuing Education -- JANE A. OWENS, *Senior Director*

Library -- SAMUEL R. STORMONT, *Head Librarian*

Registrar -- JOAN M. RAUDENBUSH

Science and Engineering Division -- LEAH DEVLIN, *Head*

Social Science Division -- GARY S. CALORE, *Head*

Undergraduate Studies, Division of -- THOMAS R. SMITH, *Senior Program Coordinator*

Baccalaureate Degrees

Administration of Justice

Abington College (AJAAB)

University College (AJACC): Penn State Fayette, Penn State Schuylkill, Penn State Wilkes-Barre

The Bachelor of Arts degree in Administration of Justice provides students with a broadly based liberal education focused on the understanding and analysis of justice systems. Having grappled with the many dilemmas and controversies presented by the problems of administering justice in a complex society, graduates of this program are given the background to be educated, thoughtful, and intelligent citizens.

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

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

GENERAL EDUCATION: 45 credits

(4-7 credits 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 ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 14-18 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:43-44 credits [1(#mnote01)]

(This includes 4-7 credits of General Education courses; 0-3 credits of GH courses; 4 credits of GQ courses.)

PRESCRIBED COURSES (13 credits)

CRIM J 012 GS(3), CRIM J 100(3), CRIM J 221(3), STAT 200 GQ(4) (Sem: 3-4)

ADDITIONAL COURSES (24-25 credits)

Select 3-4 credits in values and ethics from B A 243(4), PHIL 003 GH(3), PHIL 103 GH(3), PHIL 105 GH(3), PHIL 106 GH(3), or PHIL/S T S 107 GH(3), S T S 100 GH(3), S T S 101 GH(3) or S T S/PHIL 107 GH(3) (Sem: 5-6)

Select 3 credits from CRIM J 451 US(3) or CRIM J 453 US(3) (Sem: 5-8)

Select 18 credits in CRIM J, with at least 12 credits in the 400 level from: CRIM J 013 GS(3), CRIM J 083S GS(3), CRIM J 200(3), CRIM J 201(3), CRIM J 210(3), CRIM J 230(3), CRIM J 234(3), CRIM J 300H(3), CRIM J 301H(3), CRIM J 302H(4), CRIM J 345(3), CRIM J 406(3), CRIM J 412(3), CRIM J 414(3), CRIM J 421(3), CRIM J 421(3), CRIM J 423(3), CRIM J 424(3), CRIM J 424W(3), CRIM J 425(3), CRIM J 426(3), CRIM J 430(3), CRIM J 439(3), CRIM J 441(3), CRIM J 441W(3), CRIM J 460(3), CRIM J 467(3), CRIM J 471(3), CRIM J 473(3), CRIM J 482(3), CRIM J 489W(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS(6 credits)

Select 6 credits, in consultation with adviser, from University-wide offerings according to student's career plan (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.

Last Revised by the Department: Summer Session 2003

Blue Sheet Item #: 31-06-032

Review Date: 5/2/07

UCA Revision #2: 7/26/07

Administration of Justice

Abington College (AJSAB)

University College (AJSCC): Penn State Fayette, Penn State Schuylkill, Penn State Wilkes-Barre

The Bachelor of Science degree is intended to prepare students for careers in the administration of justice. Two emphases are provided: (1) for students interested in entry-level employment in justice agencies; (2) for students interested in academic or research positions and who may seek graduate education before beginning employment.

For the B.S. degree in Administration of Justice, a minimum of 123 credits is required.

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

GENERAL EDUCATION: 45 credits

(4-7 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 ELECTIVES, GENERAL EDUCATION course selection, or REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 17-21 credits

REQUIREMENTS FOR THE MAJOR:64-65 credits [(#mnote01) 11(#mnote01)]

(This includes 4-7 credits of General Education courses; 0-3 credits of GH courses; 4 credits of GQ courses.)

PRESCRIBED COURSES (13 credits)

CRIMJ 012 GS(3), CRIMJ 100(3), CRIMJ 221(3), STAT 200 GQ(4) (Sem: 3-4)

ADDITIONAL COURSES (39-40 credits)

(Some of the courses in this category may have prerequisites that are not included in the major.)

Select 3-4 credits in values and ethics from B A 243(4), PHIL 003 GH(3), PHIL 103 GH(3), PHIL 105 GH(3), PHIL 106 GH(3), or PHIL/S T S 107 GH(3), S T S 100 GH(3), S T S 101 GH(3) or S T S/PHIL 107 GH(3) (Sem: 5-6)

Select 3 credits from CRIMJ 451 US(3) or CRIMJ 453 US(3) (Sem: 5-8)

Select 18 credits in CRIMJ, with at least 9 credits in the 400 level from: CRIM J 013 GS(3), CRIMJ 083S GS(3), CRIMJ 200(3), CRIMJ 201(3), CRIMJ 210(3), CRIMJ 230(3), CRIMJ 234(3), CRIMJ 300H(3), CRIMJ 301H(3), CRIMJ 302H(4), CRIM J 345(3), CRIMJ 406(3), CRIMJ 412(3), CRIMJ 414(3), CRIMJ 421(3), CRIMJ 423 US(3), 424(3), CRIMJ 425(3), CRIMJ 426(3), CRIMJ 430(3), CRIMJ 439(3), CRIMJ 441(3), CRIMJ 460(3), CRIMJ 462(3), CRIMJ 467(3), CRIMJ 471(3), CRIMJ 473(3), CRIMJ 489W(3) (Sem: 5-8)

Select 15 credits -- emphasis a or b:

a. Field Research emphasis: CRIMJ 240W(4), CRIMJ 290(1), CRIMJ 494(5), CRIMJ 495(5) (Sem: 5-8)

b. Research and Policy Analysis emphasis: Select 15 credits, at least 6 at the 400 level from: AM ST 491W(3-6), CRIMJ 424W(3), any CMPSC (3), ECON 004 GS(3), LER 101 GS(3), L ST 470(3), PL SC 002(3), PL SC 419(3), PL SC 490(3), SOC 409 GS/US(3), SOC 419(3), SOC 422(3), or SOC 423(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS(12 credits)

Select 12 credits, in consultation with adviser, from University-wide offerings according to student's career plan (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.

Last Revised by the Department: Fall Semester 2001

Blue Sheet Item #: 29-07-023

Review Date: 5/2/07

UCA Revision #2: 7/26/07

American Studies

Abington College (AMSAB)

Penn State Harrisburg (AMSCA)

University College (AMSCC): Penn State Brandywine, Penn State Worthington Scranton

PROFESSOR DEBORAH CLARKE, Director

This interdisciplinary major administered by the Department of English 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 [\[1\]\(#mnote01\)](#)

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

ADDITIONAL COURSES (3 credits)
AM ST 100 GH(3) or AM ST 100W 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

[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 1995

Blue Sheet Item #: 23-05-120

Review Date: 4/23/04

UCA Revision #2: 7/26/07

AB

Art

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

PROFESSOR CHARLES GAROIAN, *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. In addition, a concentration in new media and in photography is available at the University Park Campus.

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: 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: 51 credits
(This includes 6 credits of General Education GA courses.)

PRESCRIBED COURSES (15 credits) [\[1\]\(#mnote01\)](#)
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) [\[1\]\(#mnote01\)](#)
Select 15 credits from ART 201(3), ART 203(3), ART 211 US(3), ART 217(3), ART 220(3), ART 223(3), ART 230(3), ART 240(3), ART 250(3), ART 251(3), ART 280(3), ART 296(3), ART 297 IL(3), ART 299(3), PHOTO 100 GA(3), or PHOTO 201 (Sem: 3-8)

SUPPORTING COURSES AND RELATED AREAS(21 credits)

(Include at least 15 credits [\[1\]\(#mnote01\)](#) at the 300 or 400 level.)

Select 15 credits from one of the following areas of concentration: ceramics, drawing and painting, new media, photography (only available at University Park), printmaking, and sculpture (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: Summer Session 2008

Blue Sheet Item #: 36-06-010

Review Date: 4/15/08

AA

Biology

Abington College (BIOAB)

Altoona College (BIOAL)

Berks College (BIOBL)

University Park, Eberly College of Science (BIOL)

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

PROFESSOR DOUGLAS CAVENER, *Head*

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 \(BIOL_minors.cfm?letter=B&program=biolmin.htm\)](#)

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)[\[1\]\(#mnote01\)](#), CHEM 111 GN(1), CHEM 112 GN([\[1\]\(#mnote01\)](#)), CHEM 113 GN(1), MATH 140 GQ([\[1\]\(#mnote01\)](#)), MATH 141 GQ(4)
(Sem: 1-2)

BIOL 110 GN(4)[\[1\]\(#mnote01\)](#), BIOL 220W GN(4)[\[1\]\(#mnote01\)](#), BIOL 230W GN(4)[\[1\]\(#mnote01\)](#), BIOL 240W GN(4)[\[1\]\(#mnote01\)](#) (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), PPATH 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), PPATH 425(4), SC 2 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)

Group I -- BIOL 407(3), BIOL 410(3), BIOL 414(3), BIOL 441(3), BIOL 443(3), BIOL 444(3), BIOL 446(3), BIOL 448(3), BIOL 499A IL(3), HORT 407(3), HORT 440V PPATH 416(2-4), PPATH 425(4)

Group II -- BIOL 405(3), BIOL 411(3), BIOL 414(3), BIOL 417(4), BIOL 420(3), BIOL 421(4), BIOL 425(4), BIOL 427(3), BIOL 428(3), BIOL 438(3), BIOL 443(3), BIC BIOL 474(3)

Group III -- AN SC 442(3), B M B 400(2-3), B M B 450(2), BIOL 404(3), BIOL 405(3), BIOL 407(3), BIOL 410(3), BIOL 411(3), BIOL 416(3), BIOL 422(3), BIOL 426(4), BIOL 428(3), BIOL 430(3), BIOL 432(3), BIOL 439(3), BIOL 443(3), BIOL 448(3), BIOL 460(3), BIOL 499A IL(3), HORT 407(3)

Group IV -- BIOL 406(3), BIOL 412(3), BIOL 414(3), BIOL 415(3), BIOL 417(4), BIOL 419(3), BIOL 428(3), BIOL 429(3), BIOL 435(3), BIOL 436(3), BIOL 444(3) BIC 446(3), BIOL 448(3), BIOL 450W(3-5), BIOL 463(3), BIOL 464(3), BIOL 474(3), BIOL 499A IL(3),

Group V -- BIOL 404(3), BIOL 406(3), BIOL 409(3), BIOL 411(3), BIOL 413(3), BIOL 416(3), BIOL 421(4), BIOL 426(3), BIOL 430(3), BIOL 432(3), BIOL 437(4), BIC 443(3), BIOL 446(3), BIOL 460(3), BIOL 469(3), BIOL 470(3), BIOL 472(3), BIOL 479(3)

Group VI -- BIOL 400(1-3), BIOL 407(3), BIOL 414(3), BIOL 417(4), BIOL 419(3), BIOL 421(4), BIOL 437(4), BIOL 439(3), BIOL 444(3), BIOL 448(3), BIOL 450W(3), BIOL 461(3), BIOL 471(3), BIOL 473(2), BIOL 496(1-3), PPATH 425(4), SC 295(1-3), SC 395(1-3), SC 495(1-3)

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 I -- AN SC 442(3), B M B 400(2-3), B M B 450(2), BIOL 404(3), BIOL 405(3), BIOL 407(3), BIOL 410(3), BIOL 411(3), BIOL 413(3), BIOL 416(3), BIOL 422(3), BIOL 426(3), BIOL 427(3), BIOL 428(3), BIOL 432(3), BIOL 437(4), BIOL 439(3), BIOL 443(3), BIOL 448(3), BIOL 460(3), BIOL 469(3), HORT 407(3), MICRB 410(3)

Group II -- BIOL 405(3), BIOL 411(3), BIOL 414(3), BIOL 417(4), BIOL 420(3), BIOL 421(4), BIOL 425(4), BIOL 427(3), BIOL 428(3), BIOL 438(3), BIOL 443(3), BIC BIOL 474(3)

Group III -- BIOL 400(1-3), BIOL 407(3), BIOL 437(4), BIOL 439(3), BIOL 448(3), BIOL 461(3), BIOL 471(3), BIOL 473(2), BIOL 496(1-3), BIOL 499A IL(3), B M B PPATH 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)

Group II -- BIOL 405(3), BIOL 411(3), BIOL 414(3), BIOL 417(4), BIOL 420(3), BIOL 421(4), BIOL 425(4), BIOL 427(3), BIOL 428(3), BIOL 438(3), BIOL 443(3), BIC BIOL 474(3)

Group III -- BIOL 400(1-3), BIOL 414(3), BIOL 417(4), BIOL 419(3), BIOL 421(4), BIOL 437(4), BIOL 439(3), BIOL 444(3), BIOL 448(3), BIOL 450W(3-5), BIOL 461 471(3), BIOL 473(2), 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)

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), 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 I -- BIOL 410(3), BIOL 413(3), BIOL 427(3), BIOL 430(3), BIOL 443(3), BIOL 444(3), BIOL 446(3), BIOL 448(3), BIOL 499A IL(3), BIOTC 459(3), HORT 407(3), HORT 440W(3), PPATH 416(2-4), PPATH 425(4)

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 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)

Group II -- BIOL 405(3), BIOL 411(3), BIOL 414(3), BIOL 417(4), BIOL 420(3), BIOL 421(4), BIOL 425(4), BIOL 427(3), BIOL 428(3), BIOL 438(3), BIOL 443(3), BIC BIOL 474(3)

Group III -- BIOL 400(1-3), BIOL 414(3), BIOL 417(4), BIOL 419(3), BIOL 421(4), BIOL 437(4), BIOL 439(3), BIOL 444(3), BIOL 448(3), BIOL 450W(3-5), BIOL 461 471(3), BIOL 473(2), BIOL 496(2), BIOL 499A IL(3), SC 295(1-3), SC 395(1-3), SC 495(1-3)

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

Review Date: 4/10/07

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

SC

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 Hazleton, Penn State Lehigh Valley, Penn State Mont Alto, Penn State Greater Allegheny, Penn State New Kensington, Penn State Schuylkill, Penn State Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York*

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

The Bachelor of Science in Business (B.S.B.) is an upper-division, professionally oriented business degree for individuals who are seeking general preparation in business. The degree combines the theoretical underpinnings of core business disciplines, notably management, marketing, finance, and logistics, with applied study in a practical setting, especially the small-business climates across most of the Commonwealth. Through the choice of an 18-credit option, students develop a specialty related to a key business sector. Students also develop written and oral communication skills throughout the program, acquire contemporary computer skills, and engage in active and collaborative learning. The degree allows students throughout the Commonwealth to become familiar with the unique business environments of their local communities, a design that sets the degree apart from other business degrees offered both within the University and throughout the Commonwealth.

The associate degree in business administration at Penn State articulates with the degree. Advanced-standing students from other accredited colleges or universities will be admitted only with specified grade-point averages established annually in accordance with University policy.

ACCOUNTING OPTION:Preparation for positions in business with an emphasis on the areas of financial and managerial accounting, systems and controls, auditing, and taxation.

ENTREPRENEURSHIP OPTION (offered only at the Altoona College):Preparation for a variety of entrepreneurial careers from starting a new business venture to working as an entrepreneur within a larger organization.

FINANCIAL SERVICES OPTION:Preparation for positions in community financial organizations such as banks, real estate firms, insurance brokers, investment firms, and credit companies.

HEALTH SERVICES OPTION:Development of a background in the financial and administrative aspects of health care enterprises such as hospitals, managed-care organizations, clinical practices, and physicians' offices.

INDIVIDUALIZED BUSINESS OPTION:The selection of 18 credits of study based on an individualized plan of study submitted by the student and approved by an adviser. The option allows the tailoring of a program of study to suit specific student needs.

MARKETING AND MANAGEMENT OPTION: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 higher (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:
(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: 8-16 credits

REQUIREMENTS FOR THE MAJOR: 71-79 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): 53-61 credits

PRESCRIBED COURSES (32-37 credits)
ECON 002 GS(3) (Sem: 1-2)
ACCTG 211(4), ECON 004 GS(3), MIS 204(3) (Sem: 3-4)
B A 321(1-3[1](#mnote01)), B A 322(1-3[1](#mnote01)), B A 420(1[1](#mnote01)), FIN 301(3[1](#mnote01)), MGMT 301(3[1](#mnote01)), MKTG 301(3[1](#mnote01)), SCM 301(3[1](#mnote01)) (Sem: 5-6)
B A 421(1-2[1](#mnote01)), B A 422W(3[1](#mnote01)) (Sem: 7-8)

ADDITIONAL COURSES (21-24 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)
B A 323(3[1](#mnote01)) or I B 303 IL(3[1](#mnote01)) (Sem: 5-8)
Select 6-9 credits from B A 495A(3-9[1](#mnote01)), B A 495B(3-9[1](#mnote01)), or B A 495C(3-9[1](#mnote01)) (Sem: 7-8)

REQUIREMENTS FOR THE OPTION: 18 credits [1](#mnote01)
(Not all options are available at every campus.)

ACCOUNTING OPTION:(18 credits)

PRESCRIBED COURSES (15 credits)
ACCTG 404(3), ACCTG 432(3), ACCTG 471(3), ACCTG 472(3) (Sem: 5-6)
ACCTG 403W(3) (Sem: 7-8)

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

ENTREPRENEURSHIP OPTION:(18 credits)

PRESCRIBED COURSES (12 credits)
ENTR 300(3), ENTR 320(3) (Sem: 5-6)
ENTR 400(3), ENGL 419(3) (Sem: 7-8)

ADDITIONAL COURSES (6 credits)
ENTR 410(3), ENTR 420(3), ENTR 430(3), or ENTR 440(3) (Sem: 5-8)
CAS 250(3), CAS 252(3), or CAS 352(3) (Sem: 7-8)

FINANCIAL SERVICES OPTION:(18 credits)

PRESCRIBED COURSES (12 credits)
FINSV 400(3), FINSV 411(3), INS 301(3) (Sem: 5-8)
ENGL 419(3) (Sem: 7-8)

ADDITIONAL COURSES (6 credits)
ECON 351(3), FINSV 420(3), INS 310W(3), or R EST 301(3) (Sem: 5-8)
CAS 250(3), CAS 252(3), or CAS 352(3) (Sem: 5-8)

HEALTH SERVICES OPTION:(18 credits)

PRESCRIBED COURSES (12 credits)
H P A 101(3) (Sem: 5-6)
H P A 310(3), H P A 332(3) (Sem: 5-8)
ENGL 419(3) (Sem: 7-8)

ADDITIONAL COURSES (6 credits)
CAS 250(3), CAS 252(3), or CAS 352(3) (Sem: 5-8)
H P A 447(3) or H P A 455(3) (Sem: 7-8)

INDIVIDUALIZED BUSINESS OPTION:(18 credits)
Prepare an individualized plan of study consisting of 18 credits to be submitted for approval by an adviser. (Sem: 5-8)

MANAGEMENT AND MARKETING OPTION(18 credits)

ADDITIONAL COURSES (18 credits)

1. Select 15 credits from the following (to include at least 3 credits in MGMT and 3 credits in MKTG and at least 3 credits at the 400 level):
MGMT 321(3), MGMT 326(3), MGMT 331(3), MGMT 341(3), MGMT 401(3), MGMT 424(3); MGMT 431(3) or B A 250(3); MGMT 440(3), MGMT 445(3), MGMT 451W(3), MGMT 461 IL(3); MKTG 220(3) or MKTG 410(3); MKTG 310(3), MKTG 327(3), MKTG 330(3), MKTG 342(3), MKTG 422(3), MKTG 428(3), MKTG 445(3), MKTG 450W(3), MKTG 478(3) (Sem: 5-8)
2. Select 3 credits from CAS 250(3), CAS 252(3), CAS 352(3), CAS 404(3) or ENGL 419(3) (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.

Penn State Schuylkill/Individualized Business and Management/Marketing Options only (1/26/07)

Last Revised by the Department: Summer Session 2008

Blue Sheet Item #: 36-05-099

Review Date: 2/26/08

UCA Revision #1: 8/3/06

[Comments\(http://www.psu.edu/bulletins/bluebook/contact \)](http://www.psu.edu/bulletins/bluebook/contact)

Corporate Communication

Abington College (CCBA)

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 122 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: 0-13 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: 49-50 credits [1\(#mnote01\)](#)

PRESCRIBED COURSES (31 credits)
ACCTG 211(4), IST 110 GS(3), MIS 204(2) (Sem: 1-2)
COMM 100 GS(3) (Sem: 1-4)
IST 250(3), MKTG 301(3), MGMT 301(3) (Sem: 3-4)
MKTG 310(3) (Sem: 5-6)
CC 403W(3), CC 495A(3) (Sem: 7-8)

ADDITIONAL COURSES (18-19 credits)
B A 243(4) or PHIL 103 GH(3) (Sem: 1-4)
MGMT 321(3) or PSYCH 221 GS(3) (Sem: 3-6)
CAS 252(3) or CAS 352(3), CC 401(3) or CC 402(3), ENGL 417(3) or ENGL 419(3), MGMT 424(3) or PSYCH 423(3) (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.

Last Revised by the Department: Fall Semester 2002

Blue Sheet Item #: 30-05-001

Review Date: 10/06/05
Publications update of division head: 09/15/06
UCA Revision #1: 8/3/06
AB

English

Abington College (ENGAB)
Altoona College (ENGAL)
University College (ENGCC): Penn State Brandywine, Penn State Fayette, Penn State Mont Alto, Penn State Wilkes-Barre, Penn State York
University Park, College of the Liberal Arts (ENGL)

PROFESSOR ROBIN G. SCHULZE, *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.

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 [1(#mnote01)]

PRESCRIBED COURSES (6 credits)
ENGL 200(3), ENGL 201 GH(3) (Sem: 1-6)

ADDITIONAL COURSES (9 credits)
Select 3 credits from ENGL 221(3) or ENGL 221W(3) (Sem: 1-6)
Select 3 credits from ENGL 222(3), ENGL 222W(3), ENGL 231(3), ENGL 231W(3), ENGL 232(3), ENGL 232W(3), or ENGL 235 US(3) (Sem: 1-6)
Select 3 credits from ENGL 310H(3) or ENGL 487W(3) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (21 credits)
Select 6 credits in literature, writing, or rhetoric (Sem: 1-8)
Select 3 credits at the 300 or 400 level in literature primarily before 1800 from department list (Sem: 5-8)
Select 3 credits at the 300 or 400 level in post-1800 multicultural/minority subject matter or in post-1800 sex and gender studies or in post-1800 postcolonial studies (Sem: 5-8)
Select 9 credits at the 300 or 400 level in literature, writing, or rhetoric (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.

Last Revised by the Department: Summer Session 2007

Blue Sheet Item #: 35-04-234

Review Date: 1/16/07

[Comments\(http://www.psu.edu/bulletins/bluebook/contact \)](http://www.psu.edu/bulletins/bluebook/contact)

LA

History

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

PROFESSOR A. G. ROEBER, *Interim 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.

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 [\[1\]\(#mnote01\)](#)

PRESCRIBED COURSES (15 credits)
HIST 001 GH;IL(3), HIST 002 GH;IL(3) (Sem: 1-4)
HIST 020 GH;US(3), HIST 021 GH;US(3) (Sem: 1-4)
HIST 302W(3) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS(21 credits)
(At least 12 credits must be at the 400 level.)
Select 6 credits in non-Western history from department list (Sem: 1-8)
Select 15 credits in any area (no history course excluded) (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 1993

Blue Sheet Item #: 21-01-011

Review Date: 01/19/00 (General Education information updated)

Department head updated by Publications: 10/08/08

Information Sciences and Technology

Abington College
Berk's College
Capital College

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 Schuylkill, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York
World Campus

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

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

PROFESSOR HENRY C. FOLEY, Program Coordinator

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 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.

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.

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

1. be taking, or have taken, a program appropriate for entry to the major as shown in the *Bulletin*, including approximately 60 credits of course work.
2. have completed the following entrance-to-major requirements with grades of C or better in each: IST 110(3); IST 210(4); and IST 220(3). These courses must be completed by the end of the semester during which the entrance-to-major procedure is carried out.
3. 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: 7 credits

REQUIREMENTS FOR THE MAJOR: 85 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): 64 credits

PRESCRIBED COURSES (33 credits)
CMPSC 101 GQ(3) [\[1\]\(#mnote01\)](#), IST 110 GS(3) [\[1\]\(#mnote01\)](#), IST 210(4) [\[1\]\(#mnote01\)](#), IST 220(3) [\[1\]\(#mnote01\)](#), IST 230(3) [\[1\]\(#mnote01\)](#), IST 240(3) [\[1\]\(#mnote01\)](#) (Sem: 1-4)
STAT 200 GQ(4) (Sem: 3-6)

IST 495(1[1](#mnote01) (Sem: 3-8)
IST 301(3[1](#mnote01), IST 331(3[1](#mnote01) (Sem: 5-8)
IST 440W(3[1](#mnote01) (Sem: 7-8)

ADDITIONAL COURSES (10 credits)
ECON 002 GS(3), ECON 004 GS(3), or ECON 014 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 11(#mnote01) at the 400 level in emerging issues and technologies from College-approved list (Sem: 5-8)

REQUIREMENTS FOR THE OPTION:21 credits

INFORMATION SYSTEMS: DESIGN & DEVELOPMENT OPTION21 credits

PRESCRIBED COURSES (3 credits)11(#mnote01)
IST 311(3) (Sem: 5-8)

ADDITIONAL COURSES (6 credits)11(#mnote01)
Select 6 credits from IST 411(3), IST 412(3), or IST 413(3) (Sem: 5-8)

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

INFORMATION TECHNOLOGY: INTEGRATION & APPLICATION OPTION21 credits

PRESCRIBED COURSES (9 credits)11(#mnote01)
IST 302(3), IST 420(3), IST 421(3) (Sem: 5-8)

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

INFORMATION CONTEXT: PEOPLE, ORGANIZATIONS, AND SOCIETY OPTION21 credits

PRESCRIBED COURSES (6 credits)11(#mnote01)
IST 431(3) and IST 432(3) (Sem: 5-8)

ADDITIONAL COURSES (3 credits)11(#mnote01)
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)

[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 2009

Blue Sheet Item #: 37-06-049

Review Date: 4/14/09

IS

Integrative Arts

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

PROFESSOR WILLIAM J. KELLY, *Head of the Department, 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 36 credits and an elective component of 19 credits. The two components combined must clearly illustrate that the plan has clarity, purpose, and cohesion.

For the B.A. degree in Integrative Arts, a minimum of 124 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: 19 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

SUPPORTING COURSES AND RELATED AREAS:36 credits11(#mnote01)
(Must include at least 15 credits at the 400 or equivalent level)

Select 24 credits from an arts area (Sem: 1-8)
Select 12 credits from other arts areas (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 Reviewed by the Department: Summer Session 1991

Blue Sheet Item #: 19-02-001

Review Date: 01/18/00 (General Education information updated)

Letters, Arts, and Sciences

Abington College (LASAB)
Altoona College (LASAL)
Penn State Harrisburg (LASCA)
University College (LASCC): Penn State Beaver, Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Greater Allegheny, Penn State Hazleton, Penn State Mont Alto, Penn State Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York
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.

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 [\[1\]\(#mnote01\)](#)

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

Reviewed by Publications: 06/23/06

LA

Organizational Leadership

Abington College
Altoona College
Berks College
University College: 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 Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton
University Park, College of the Liberal Arts (OLEAD): offered via World Campus and Continuing Education

This program is restricted to adult learners, as defined by the University

PROFESSOR JOHN L SELZER, Head

The degree draws on many of the disciplines of the liberal arts to illuminate the issues that all leaders face regarding work and employment issues in the 21st Century. Students select courses in English, crime, law, and justice, economics, political science, sociology, labor and industrial relations, communication arts and sciences, and psychology. The goal is to provide a broad education that introduces methods of analysis used in the disciplines of the liberal arts and prepares students to understand the complex social, cultural, and organizational issues that they will confront in leadership positions in the modern world. This degree program requires that students develop competency in four critical areas and then apply those skills in disciplinary perspectives. All students are expected to develop proficiency in research methodology, critical analysis, communication skills, and the application of theory. Students can expect to learn and practice skills that focus on understanding how organizations function both formally and informally and how individuals function within organizations.

For the B.S. degree in Organizational Leadership, a minimum of 123 credits is required.

GENERAL EDUCATION: 45 credits
(4 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 ELECTIVES, GENERAL EDUCATION course selections, or REQUIREMENTS FOR THE MAJOR)

ELECTIVES: 18 credits

REQUIREMENTS FOR THE MAJOR: 64 credits [1](#mnote01)

(This includes 4 credits of General Education GQ courses.)

PRESCRIBED COURSES (25 credits)

CAS 283(3), ECON 002 GS(3), ECON 004 GS(3), ENGL 215(3), PSYCH 281 GS(3), PSYCH 485(3), SOC 207(3), STAT 200 GQ(4) (Sem: 1-5)

ADDITIONAL COURSES (39 credits)

Select 39 credits:

Choose at least 12 credits in each of the 3 following areas.

Choose at least 15 credits at the 400 level.

1. Employer and Employees

LER 136 US(3), PHIL 010 GH(3), PHIL 103 GH(3), PSYCH 100 GS(3), SOC 035(3) (Sem: 1-6)

HIST/LER 458W(3), PSYCH 484(3), SOC 456(3) (Sem: 5-8)

2. Law, Policy, and Organizations

CRIMJ 100(3), LER 100 GS(3), LER 201 GS(3), PL SC 001 GS(3) (Sem: 1-6)

CRIM 113(3), CRIMJ 482(3), LER 424(3), LER 435(3), PL SC 490(3) (Sem: 5-8)

3. Workplace Dynamics

CAS 404(3), CAS 352(3), CAS 452(3), CAS 475(3), ECON 315 GS(3), ECON 342 GS(3), ENGL 419(3), LER 434(3), LER 472 GS(3), SOC 404(3), SOC 455(3) (Sem: 1-5)

[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 2005

Blue Sheet Item #: 33-03-290

Review Date: 7/11/05

UCA Revision #1: 8/9/06

UCA Revision #2: 7/30/07

LA

Psychological and Social Sciences

Abington College (PSSBA)

PROFESSOR GARY S. CALORE, 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](#mnote01)

PRESCRIBED COURSES (10 credits)

PSYCH 100 GS(3) (Sem: 1-2)

ANTH 045 GS:US:IL(3) (Sem: 1-4)

PSYCH 200(4) (Sem: 3-4)

ADDITIONAL COURSES (15-16 credits)

PSYCH 238 GS(3) or SOC 109(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)

Select 12 credits from one of the following areas

Select 9 credits from a second area

(at least 15 credits must be at the 400-level):

a. Organizational Relations

CAS 352(3), CAS 455 US(3), MGMT 341(3), MGMT 441(3), PSYCH 281 GS(3), PSYCH 423(3), PSYCH 485(3), SOC 455(3), SOC 456(3) (Sem: 5-8)

b. Social Psychology

PSYCH 221 GS(3), PSYCH 420(3), PSYCH 424(3), SOC 003 GS(3), SOC 403(3) (Sem: 5-8)

c. Developmental Studies

EDPSY 014(3), HD FS 229 GS(3), HD FS 239 GS(3), HD FS 249 GS(3), HD FS 315 US(3), HD FS 433(3), HD FS 445(3)/PSYCH 416(3), PSYCH 415(3), PSYCH 412(3) (Sem: 5-8)

d. Media and Society

CAS 415(3 per semester), COMM 100 GS(3), COMM 120(3), COMM 411(3), SOC 462(3) (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.

Last Revised by the Department: Summer Session 2000

Blue Sheet Item #: 28-03-002
Review Date: 06/20/05
UCA Revision #1: 9/1/06
Dept head revised by Publications: 4/23/07
AB

Psychological and Social Sciences

Abington College (PSSBS)

PROFESSOR GARY S. CALORE, *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 120 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:
(Included in REQUIREMENTS FOR THE MAJOR)

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

ELECTIVES: 12-17 credits

REQUIREMENTS FOR THE MAJOR: 66-70 credits [\[1\]\(#mnote01\)](#)
(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(4) (Sem: 3-4)
SOC 471(3) (Sem: 7-8)

ADDITIONAL COURSES (28-32 credits)
BIOL 110 GN(4) or BIOL 141 GN(3) and BIOL 142(1) (Sem: 1-4)
SOC 109(3) or PSYCH 238 GS(3) (Sem: 3-4)
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 3-6 credits of ANTH 494(1-12), HD FS 494(1-12), PSYCH 494(3-6), or SOC 494(1-12) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS(21 credits)

Select 12 credits from one of the following areas

Select 9 credits from a second area

(at least 12 credits must be at the 400 level):

a. Society and Health

ANTH 464(3)/BIOL 464(3), BIOL 469(3)/BB H 469(3), BB H 302 US(3), BB H 315 US(3), HD FS 468(3), PSYCH 441(3), SOC 309(3) (Sem: 5-8)

b. Counseling and Testing

CNED 403(3), CNED 404(3), CNED 407(3), CNED 425(3) (Sem: 5-8)

c. Developmental Studies

EDPSY 014(3), HD FS 229 GS(3), HD FS 239 GS(3), HD FS 249 GS(3), HD FS 315 US(3), HD FS 433(3), HD FS 445(3)/PSYCH 416(3), PSYCH 415(3), PSYCH 412(3) (5-8)

d. Organizational Relations

MGMT 321(3), MGMT 331(3), MGMT 341(3), MGMT 424(3), SOC 455(3), SOC 456(3) (Sem: 5-8)

e. Social Psychology

SOC 003 GS(3), SOC 403(3), PSYCH 221 GS(3), PSYCH 420(3), PSYCH 424(3) (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.

Last Revised by the Department: Summer Session 2000

Blue Sheet Item #: 28-03-003

Review Date: 06/20/05

UCA Revision #1: 8/31/06

Dept head revised by Publications: 4/23/07

AB

Science

Abington College (SCIAB)

Altoona College (SCIAL)

Berks College (SCIBL)

Capital College (SCICA)

University College (SCICC): 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 integrated undergraduate-graduate (IUG) degree program 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 three B.S. options offered: the Life Sciences option, the Mathematical Sciences option, or the Physical Sciences option. Not all of these options are available at all 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.

TWO-YEAR PREPROFESSIONAL PREPARATION:The first two years of the Science major (62 credits) can meet the preprofessional 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 002 GS(3) and ECON 004 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).

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

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): 29-37 credits

PRESCRIBED COURSES (20 credits)

CHEM 110 GN(3) [\[1\]\(#mnote01\)](#), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), MATH 140 G [\[1\]\(#mnote01\)](#), MATH 141 GQ(4) (Sem: 1-2)
BIOL 110 GN(4) [\[1\]\(#mnote01\)](#) (Sem: 1-4)

ADDITIONAL COURSES (3 credits)

Select 3 credits from B M B 211(3), B M B 251(3), or MICRB 201(3) (Sem: 3-4)

SUPPORTING COURSES AND RELATED AREAS(6-14 credits)

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

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)

REQUIREMENTS FOR THE OPTION: 57-65 credits

GENERAL SCIENCE OPTION:(57-65 credits)

ADDITIONAL COURSES (11-16 credits)

Select 3-4 credits from CMPSC 101 GQ(3), MATH 230(4), MATH 250(3), or STAT 200 GQ(4) (Sem: 3-4)

PHYS 211 GN(4) [\[1\]\(#mnote01\)](#), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 G [\[1\]\(#mnote01\)](#), PHYS 251 GN(4) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS(41-54 credits)

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

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 [\[1\]\(#mnote01\)](#) at the 400 level [\[60\]\(#mnote60\)](#) (Sem: 3-8)

Select 20-33 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)

LIFE SCIENCE OPTION:(57-65 credits)

ADDITIONAL COURSES (21-27 credits)

Select 4 credits from BIOL 220W GN(4), BIOL 230W GN(4), BIOL 240W GN(4) (Sem: 3-4)

Select 3 credits from CMPSC 101 GQ(3), MATH 250(3), or STAT 250 GQ(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) [\[1\]\(#mnote01\)](#), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 G [\[1\]\(#mnote01\)](#), PHYS 251 GN(4) (Sem: 3-6)

SUPPORTING COURSES AND RELATED AREAS(30-44 credits)

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

Select 9 credits [\[1\]\(#mnote01\)](#) of 400-level B M B, BIOL, BIOTC, or MICRB courses (Sem: 5-8)

Select 21-35 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)

MATHEMATICAL SCIENCE OPTION(57-65 credits)

PRESCRIBED COURSES (5 credits)

CMPSC 122(3), MATH 220 GQ(2-3) (Sem: 3-6)

ADDITIONAL COURSES (21-26 credits)

CMPSC 121 GQ(3), CMPSC 201 GQ(3), or CMPSC 202 GQ(3) (Sem: 3-6)

MATH 230(4) or MATH 251(4) (Sem: 3-6)

CMPSC 360(3) or MATH 311W(3-4); STAT 301 GQ(3) or STAT 318(3) (Sem: 3-8)

PHYS 211 GN(4) [\[1\]\(#mnote01\)](#), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2); or PHYS 250 G [\[1\]\(#mnote01\)](#), PHYS 251 GN(4) (Sem: 3-8)

SUPPORTING COURSES AND RELATED AREAS(26-39 credits)

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

Select 9 credits [\[1\]\(#mnote01\)](#), of 400-level CMPSC, CSE, MATH, or STAT courses (Sem: 5-8)

Select 17-30 credits from program list (Students may apply 6 credits of ROTC.) (Sem: 1-8)

PHYSICAL SCIENCE OPTION(57-65 credits)

PRESCRIBED COURSES (15 credits)

ASTRO 291 GN(3), PHYS 211 GN [\[1\]\(#mnote01\)](#), PHYS 212 GN(4), PHYS 213 GN(2), PHYS 214 GN(2) (Sem: 3-6)

ADDITIONAL COURSES (13-16 credits)

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(26-37 credits)

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

Select 9 credits [\[1\]\(#mnote01\)](#), of 400-level ASTRO, CHEM, or PHYS courses (Sem: 5-8)

Select 17-28 credits from program list (Students may apply 6 credits of ROTC.) (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.

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

Last Revised by the Department: Summer Session 2006

In charge professor updated by Publications: 4/30/09

Blue Sheet Item #: 34-06-352

Review Date: 4/11/06

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 GREGORY J. KELLY, *Head of the Department of Curriculum and Instruction*

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 OPTIONThis 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 OPTIONThis 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 OPTIONThis 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 OPTIONThis 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 OPTIONThis 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 OPTIONThis 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 option (e.g., Biology); the total number of credits required will depend primarily on that other option.

MATHEMATICS TEACHING OPTIONThis 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 OPTIONThis 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 OPTIONThis 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 program 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 in-depth content preparation in Economics, Geography, History, and Political Science (7-12). Candidates who successfully complete the Heritage Education concentration receive training to be educational specialists at heritage-museum sites.

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 135 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 132 credits is required. (See also [Teacher Education Programs \(general information.cfm?section=SpecialAP6\)](#).)

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 [\[18\] \(#mnote18\)](#).

PRESCRIBED COURSES (36 credits)
C I 295(2), EDPSY 014(3), PSYCH 100 GS(3) (Sem: 1-2)
C I 280 (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 [\[18\] \(#mnote18\)](#).)

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), GEOSC 204(4), GEOSC 424(3), I 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 [\[18\] \(#mnote18\)](#).)

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(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 423(3), CHEM 425(3) (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, I 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 [\[18\] \(#mnote18\)](#).)

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)
MATH 141 GQ(4) or 4 credits of 200-level STAT GQ courses (Sem: 1-4)
GEOSC 001(3), GEOSC 020 GN(3) or GEOSC 071(3) (Sem: 1-3)
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;IL(3); METEO 003 GN(3), METEO 201(3), or M 300(4); ASTRO 010 GN(2) and ASTRO 011 GN(1), or ASTRO 291 GN(3) (Sem: 1-5)
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 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 [\[18\] \(#mnote18\)](#). 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)
LL ED 411(3), LL ED 412W(3), LL ED 420(3) (Sem: 5-8)

ENGL 444(3) (Sem: 5-6)

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(3), ENGL 221W(3), ENGL 222(3), ENGL 222W(3), ENGL 231(3), ENGL 231W, ENGL 232(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)

AM ST 493(3), CMLIT 400Y US;IL(3), CMLIT 401Y IL(3), CMLIT 402Y US;IL(3), CMLIT 404 IL(3), CMLIT 405 US;IL(3), CMLIT 406 IL(3), CMLIT 407 IL(3), CMLIT 422 IL(3), CMLIT 423 IL(3), CMLIT 453 IL(3), CMLIT 470 IL(3), CMLIT 480 IL(3), CMLIT 486 IL(3), CMLIT 487 IL(3), CMLIT 488 IL(3), ENGL 404(3), ENGL 426 US(3), ENGL 431 US(3), ENGL 449(3), ENGL 461 US(3), ENGL 462 US(3), ENGL 463 US(3), ENGL 466 US(3), ENGL 467 US(3), ENGL 468 US(3), ENGL 469 US;IL(3); ENGL 401(3), ENGL 402(3), ENGL 404(3) when topic appropriate (with adviser's approval)

(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 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(3)

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

CAS 214W(3), COMM 260W(3), COMM 460W(3), COMM 461(3), COMM 462(3), COMM 467(3), ENGL 212(3), ENGL 213(3), ENGL 215(3), ENGL 281(3), ENGL 412 ENGL 413(3), ENGL 414(3), ENGL 416(3), ENGL 418(3), ENGL 419(3), ENGL 420(3), ENGL 421(3), THEA 440(3)

(h) Rhetoric (Sem: 7-8)

CAS 215(3), CAS 415(3), CAS 475(3), COMM 467(3), ENGL 409(3), ENGL 411(3), ENGL 470(3), ENGL 471(3), ENGL 472(3), ENGL 473(3), ENGL 474(3), ENGL 48:

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 215(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

ART 100 GA(3), ART H 111 GA;IL(3), ART H 112 GA;IL(3), ART H 120 GA;IL(3), ART H 130 GA;US;IL(3), CAS 175 GH(3), CAS 283(3), CAS 415(3), CAS 483(3), CC 100 GS(3), COMM 118(3), COMM 120(3), COMM 150 GA(3), COMM 180 GS(3), COMM 205 US(3), COMM 242(3), COMM 250 GA(3), COMM 283W(3), COMM 45: COMM 454(3), CMLIT 453(3), PHOTO 100 GA(3), WMNST 205 US(3) (Sem: 1-8)

Theatre

THEA 102 GA(3), THEA 103(3), THEA 104(3), THEA 110(3), THEA 112(3), THEA 120(3), THEA 130(3), THEA 131(3), THEA 189(3), THEA 210(3), THEA 428(3) (S 1-8)

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 appro (with adviser's approval) (Sem: 3-8)

Communication Arts and Sciences

CAS 201 GH(3), CAS 202 GS(3), CAS 203 GS(3), CAS 211(3), CAS 213(3), CAS 215(3), CAS 250(3), CAS 280W(3), CAS 311(3), CAS 375(3), CAS 383(3), CAS 411 CAS 422 US(3), CAS 455 US(3), CAS 470(3), CAS 471 US;IL(3), CAS 475(3) (Sem: 3-8)

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 42: or a foreign language credits at the 12th credit level or above (Sem: 3-8)

ENVIRONMENTAL EDUCATION TEACHING OPTION(55-58 credits **181(#mnote18)**)

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 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 **181(#mnote18)**)

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 **[18](#mnote18)**)

PRESCRIBED COURSES (32-34 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 471(4), MTHED 411(3), MTHED 412W(3), MTHED 427(3) (Sem: 5-8)

ADDITIONAL COURSES (19 credits)

CMPSC 101 GQ(3) or CMPSC 121 GQ(3); MATH 230(4) or MATH 231(2) and MATH 232(2); MATH 418(3) or MATH 414(3); STAT 401(3) or MATH 415(3) or 3 cr 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 **[18](#mnote18)**)

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, 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.

SOCIAL STUDIES TEACHING OPTION:(57 credits **[18](#mnote18)**)

PRESCRIBED COURSES (30 credits)

ECON 004 GS(3), GEOG 010 GN(3), GEOG 020 GS(3), HIST 001 GH;IL(3), HIST 002 GH;IL(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 (6 credits)

Select 3 credits from: ECON 030 GS(3) or GEOG 160 GS(3) (Sem: 1-8)

Select 3 credits from: ANTH 045 GS;US;IL(3), ECON 002 GS(3), PL SC 003 GS;IL(3), PL SC 014 GS;IL(3), SOC 001 GS(3); C I 405(3) with adviser's approval. (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 002 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(3), GEOG 126 GS;US;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 of 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 002 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 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)

Heritage Education

C I 400(3) (Sem: 5-8)

C I 405 with adviser's approval

C I 495(3) (Sem: 5-8)

SS ED 470(6) (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)

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UCA Revision #2: 7/30/07

ED

Publications updated department head: 8/21/08

Associate Degrees

Business Administration

Abington College (2BAAB)

Altoona College (2BAAL)

Berks College (2BABL)

Capital College (2BACA)

University College (2BACC): Penn State Beaver, Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Greater Allegheny, 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([11\(#mnote01\)](#)), MIS 204(3) (Sem: 2-4)

ADDITIONAL COURSES (17-18 credits)

ENGL 015 GWS([311\(#mnote01\)](#)) or ENGL 030 GWS([311\(#mnote01\)](#)) (Sem: 1-2)

MATH 021 GQ(3), MATH 022 GQ(3), or MATH 110 GQ(4) (Sem: [1741\(#mnote74\)](#))

B A 243([411\(#mnote01\)](#)) or B A 241([211\(#mnote01\)](#)) and B A 242([211\(#mnote01\)](#)) (Sem: 1-4)

ECON 002 GS(3) or ECON 004 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([311\(#mnote01\)](#)) or MGMT 301W([311\(#mnote01\)](#)) (Sem: 3-4)

b) Select 3 credits from MKTG 301([311\(#mnote01\)](#)) or MKTG 301W([311\(#mnote01\)](#)) (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 002 GS(3) or ECON 004 GS(3); MATH 022 GQ(3), M 110 GQ(4), MKTG 220(3) (Sem: 1-4)

PROFESSIONAL STUDIES OPTION: (18 credits) [751\(#mnote01\)](#)

ADDITIONAL COURSES (18 credits)

Select 18 credits from ACCTG 151(3), ACCTG 152(3), ACCTG 153(3), ACCTG 160(3), ACCTG 186(3), B A 100 GS(3), B A 250(3); ECON 002 GS(3) or ECON 004 GS(3); CMPSC 140(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 M 100W(3); MGMT 150(3), MIS 103(3), MIS 106(1-6), MIS 120(3); MIS 130(3), MIS 190(3), MKTG 220(3); MKTG 221(3) or MKTG 221W(3); R EST 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

Letters, Arts, and Sciences

Abington College (2LAAB)

Altoona College (2LAAL)

Penn State Erie, The Behrend College (2LABC)

Berks College (2LABL)

Capital College (2LACA)

University College (2LACC): Penn State Beaver, Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Hazleton, Penn State Mont Alto, Penn State Greater Allegheny, Penn State Lehigh Valley, Penn State New Kensington, Penn State Schuylkill (2LACA), Penn State Shenango Valley, Penn State Wilkes-Barre, Penn State Worthington-Scranton, Penn State York

University Park, College of the Liberal Arts (2 LAS)

World Campus

ASSOCIATE DEAN JOHN L. SELZER, *in charge*, Penn State University Park

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 [\[1\] \(#mnote01\)](#)
(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 checklist, 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

Abington College (AFAAB)

University Park, College of the Liberal Arts (AFAMR)

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)

AAA S 100 GS;US(3), AAA S/WMNST 101 GH;US(3), AAA S 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

AAA S/WMNST 102 GH;IL(3), AAA S/SOC/WMNST 103 US(3), AAAS/RL ST 145 GH;US;IL(3), AAA S 146 GH;US(3), AAA S/RL ST 147 GH;US(3), AAA S/HIST 191 GH;IL(3), AAA S/THEA 208 GA;US;IL(3), AAA S/HIST 210 GH;US(3), AAA S/HIST 240 GH;US(3) COMM/WMNST 205 US(3), ENGL 235 US;IL(3), SOC 119 GS;US(4) (Sem: 1-4)

AAA S 401(3), AAA S/SOC 409 GS;US(3), AAA S/WMNST 410(3), AAA S/THEA 412 US;IL(3), AAA S/HIST 415 US;IL(3), AAA S/CAS 422 US;IL(3), AAA S/HIST 431 US;IL(3), CRIMJ 451 US(3), ECON 436W US(3), EDTHP 411(3), ENGL 463 US(3), AAA S/HIST 465 US(3), AAA S/ENGL 469 US(3) (Sem: 5-8)

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

Abington College (AMSAB)

University College (AMSCC): Penn State Brandywine, Penn State Fayette, Penn State York

This interdisciplinary minor is designed for students who want to complement their major program. With the approval of the American Studies Program committee, appropriate courses other than those below may be selected, including those from the 200, 496, and 497 series. To complete the minor successfully, a candidate must complete the course requirements with at least a C cumulative grade-point average. The minor consists of 18 credits.

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

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(3), AM ST 100W(3), or AM ST 105 GH;US(3) (Sem: 1-4)

Select 12 credits from the following list, including at least 6 credits at the 400 level:

CRIMJ 100(3), CRIMJ 221(3), ART H 307 GA(3), COMM 100 GS(3), COMM 180 GS(3), COMM 205 US(3), COMM 250 GA(3), ENGL 133 GH(3), ENGL 139 GH;US(3), ENGL 140 GH(3), ENGL 194 GH;US:IL(3), ENGL 231W(3), ENGL 232W(3), HIST 020 GH;US(3), HIST 021 GH;US(3), HIST 150 US(3), HIST 151 GS(3), HIST 152 GH;US:IL(3), HIST 155 GH;US(3), HIST 156(3), HIST 158 US:IL(3), LER 156(3), MUSIC 007 GA;US(3), PL SC 001 GS(3), RL ST 140W GH;US(3), 145 GH;US:IL(3), WMNST 001 GS;US:IL(3) (Sem: 1-8)

AM ST 410(3), AM ST 415(3), AM ST 432(3), ART H 404(3), ART H 415(3), ART H 416(3), CAS 415(3), CAS 478(3), COMM 407(3), COMM 408(3), COMM 409(3), 411(3), COMM 413W(3), COMM 426(3), CRIMJ 210(3), CRIMJ 421(3), CRIMJ 451 US(3), ENGL 430(3), ENGL 432(3), ENGL 433(3), ENGL 435(3), ENGL 436(3), ENGL 437(3), ENGL 438(3), ENGL 439(3), ENGL 458(3), ENGL 490 US:IL(3), ENGL 493(3), KINES 441 US(3), KINES 444(3), HIST 441 US(3), HIST 442 US(3), HIST 444 US(3), HIST 445 US(3), HIST 446 US(3), HIST 447 US(3), HIST 449 US(3), HIST 450 US(3), HIST 452 US:IL(3), HIST 454 US(3), HIST 458W(3), HIST 459Y US(3), HIST 460 US:IL(3), LER 411(3), LER 414W(3), LER 458W(3), MUSIC 464W(3), PHIL 401(3), PHIL 403(3), PHIL 432(3), PL SC 417(3), PL SC 419(3), PL SC 425(3), PL SC 426(3), PL SC 427(3), PL SC 435(3), PL SC 436(3), PL SC 472(3), PL SC 474(3), RL ST 422(3), SOC 409 GS;US(3), SOC 412(3), SOC 454(3), SOC 461(3), SOC 462(3), THEA 4 (Sem: 5-8)

Last Revised by the Department: Summer Session 1995

Blue Sheet Item #: 23-05-121

Review Date: 04/12/05

UCA Revision #2: 7/26/07

AB

Anthropology Minor

*Abington College (ANTAB)**University Park, College of the Liberal Arts (ANTH)*

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

Dept head updated by Publications: 5/21/07

LA

Business Minor

*Abington College (BSBAB)**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 Mont Alto, Penn State New Kensington, Penn State Schuylkill, Penn State Shenango, Penn State Wilkes-Barre, Penn State Worthington Scranton, Penn State York*

This interdisciplinary minor provides students with a business-oriented supplement to their academic major. It is designed to introduce students to a variety of fundamental business skills and knowledge. The minor consists of 22-23 credits, at least 6 credits of which must be at the 400 level. Only courses in which students earn a grade of C or better may be counted toward fulfillment of the requirements for the minor.

*Scheduling Recommendation by Semester Standing given like (Sem: 1-2)***REQUIREMENTS FOR THE MINOR:**22-23 credits**PRESCRIBED COURSES:** (10 credits)

ACCTG 211(4) (Sem: 1-5)

MGMT 301(3), MKTG 301(3) (Sem: 5-8)

ADDITIONAL COURSES: (6-7 credits)

Select 3 credits from ECON 002 GS(3) or ECON 004 GS(3) (Sem: 1-5)

Select 3-4 credits from B A 241(2) and B A 242(2) or B A 243(4); MIS 204(3), SCM 200 GQ(4) or STAT 200 GQ(4) (Sem: 1-5)

FIN 301(3), I B 303(3), SCM 301(3) (Sem: 5-8)

Note: A student who receives credits for B A 243 may not receive credit for either B A 241 or B A 242.**SUPPORTING COURSES AND RELATED AREAS:**(6 credits)

Select 6 credits at the 400 level in consultation with your adviser and the approval of the director of the business minor (Sem: 5-8)

Last Revised by the Department: Summer Session 2008

Blue Sheet Item #: 36-01-057

Review Date: 8/28/07

UCA Revision #1: 8/3/06

[Comments \(http://www.psu.edu/bulletins/bluebook/contact \)](http://www.psu.edu/bulletins/bluebook/contact)

AB/BK/UC

Business and the Liberal Arts Minor

Abington College (BSLAB)

University Park, College of the Liberal Arts (BUSLA)

PROFESSOR MICHAEL BERKMAN, *Director*

This minor offers fundamental courses in business, the opportunity for more advanced business courses, and Liberal Arts coursework emphasizing various perspectives on business. All students take a course on Business and the Liberal Arts co-taught by alumni, along with a course on Leadership, and have a reasonable degree of flexibility in remaining courses.

Only courses in which the student earns a grade of C or better may be counted toward fulfillment of the requirements for the minor.

Students pursuing the Minor in Business and the Liberal Arts are encouraged to use ENGL 202D to satisfy their English 202 requirement.

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

REQUIREMENTS FOR THE MINOR:25-26 credits

PRESCRIBED COURSES (5 credits)
ACCTG 211(4), L A 200(1) (Sem: 3-8)

ADDITIONAL COURSES (20-21 credits)

At least 6 credits in additional courses must be at the 400 level.

ECON 002 GS(3) or ECON 014 GS(3) (Sem: 3-8)

FIN 100(3) or FIN 301(3) (Sem: 3-8)

Select 2-3 credits from PHIL 119 GH(3) or B E 392 GWS(2); COMM 427(3), COMM 475(3), COMM 487(3), ENGR 407(3), RPTM 230(3) (Sem: 3-8)

Select 6 credits from the following course list:

B A 250(3), B A 321(1-3), COMM 385(3), COMM 424(3), COMM 473(3), COMM 493(3), ECON 390(3), ECON 490(3), LER 100 GS(3); MGMT 100(3) or MGMT 301
MGMT 425(3), MGMT 426(3); MKTG 221(3) or MKTG 301(3); MKTG 302(3), MKTG 310(3), MKTG 327(3), MKTG 330(3), MKTG 342(3), SCM 301(3), STAT 220(3)
credits of appropriate internship selected in consultation with adviser.

Select 6 credits from the following course list:

AAA S 445Y US(3), AG EC 429(3), AG EC 430(3), AG EC 432(3), AG EC 450 IL(3), ANTH 451(3), ANTH 455(3), CAS 352(3), CAS 426W(3), CAS 450W(3), CAS 452
CAS 452W(3), CAS 471 US;IL(3), COMM 405(3), COMM 410 IL(3), COMM 419 US;IL(3), COMM 489W(3), COMM 490(3), COMM 491(3), COMM 492(3), CRIM 4671
CRIMJ 460(3), CRIMJ 467(3), ECON 315 GS(3), ECON 333 GS(3), ECON 342 GS(3), ECON 402(3), ECON 412(3), ECON 428(3), ECON 432(3), ECON 433(3), ECON
ECON 436W US(3), ECON 443(3), ECON 444(3), ECON 445(3), ECON 447W(3), ECON 463 IL(3), ECON 471(3), ECON 472(3), ENGL 419(3), E B F 473(3), ENNEC
ENNEC 483(3), FR 407 IL(3), FR 408 IL(3), GEOG 424 US;IL(3), GEOG 439(3), GEOG 475H(3), GER 308Y IL(3), GER 408 IL(3), H P A 420(3), H P A 445(3), HD FS
US(3), HD FS 425 US(3), HIST 423 IL(3), HIST 425 IL(3), HIST 430 IL(3), HIST 445 US(3), HIST 446 US(3), HIST 447 US(3), HIST 451 US(3), HIST 458Y US(3), HIST
IL(3), HIST 475Y IL(3), HIST 481 IL(3), IST 431(3), IST 432(3), IST 445H(3), IST 452(3), JAPNS 403Y IL(3), JAPNS 404 IL(3), LER 400 IL(3), LER 401(3), LER 411(3),
414W(3), LER 425(3), LER 434(3), LER 437(3), LER 444(3), LER 445Y US(3), LER 458Y US(3), LER 460(3), LER 464(3), LER 465(3), LER 470(3), PHIL 406(3), PHIL
PHIL 418(3), PHIL 418W(3), PHIL 420(3), PHIL 431(3), PHIL 432(3), PL SC 412(3), PL SC 419(3), PL SC 490(3), PL SC 426(3), PL SC 440 US;IL(3), PL SC 441(3), PL
444(3), PL SC 445Y US(3), PL SC 474(3), PL SC 481(3), PL SC 487(3), PL SC 490(3), PSYCH 482(3), PSYCH 484(3), PSYCH 485(3), SOC 420(3), SOC 422(3), SOC
SOC 447(3), SOC 455(3), SOC 456(3), SPAN 420(3), STAT 470W(3), WMNST 426Y US;IL(3), WMNST 420 US;IL(3), WMNST 456(3), WMNST 472(3) (Sem: 3-8)

Last Revised by the Department: Fall Semester 2007

Blue Sheet Item #: 35-05-115

Review Date: 6/9/08

UCA Revision #1: 8/3/06

UCA Revision #2: 7/26/07

Communication Arts and Sciences Minor

Abington College (CASAB)

Berks College (CASBL)

University College (CASCC): Penn State Brandywine, Penn State York

University Park, College of the Liberal Arts (CAS)

PROFESSOR JAMES DILLARD, *Head*

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 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.

Last Revised by the Department: Fall Semester 2002

Blue Sheet Item #: 30-07-104

Review Date: 2/25/05

LA

English Minor

Abington College (ENGAB)

Altoona College (ENGAL)

University College (ENGCC): Penn State Brandywine, Penn State Fayette, Penn State Greater Allegheny, Penn State Mont Alto, Penn State New Kensington,

Penn State Wilkes-Barre, Penn State York

University Park, College of the Liberal Arts (ENGL)

PROFESSOR MARIE SECOR, *Interim Head*

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)

Students may not count courses used to satisfy General Education Writing/Speaking Skills

Select 6 credits from ENGL 200-289 (Sem: 3-8)

Select 6 credits from ENGL 400-493 (Sem: 3-8)

Select 6 additional credits in English (Sem: 3-8)

Last Revised by the Department: Fall Semester 2001

Review Date: 6/28/05

History Minor

Abington College (HSTAB)

Altoona College (HSTAL)

University Park, College of the Liberal Arts (HIST)

PROFESSOR A. G. ROEBER, *Interim Head*

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)

Last Revised by the Department: Fall Semester 2001

Department head updated by Publications: 10/08/08

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 Wilkes-Barre, Penn State Worthington Scranton, Penn State York

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

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 one-time tuition surcharge will be applied to all students enrolled in the minor.

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:19 credits

PRESCRIBED COURSES (10 credits)

IST 110 GS(3), IST 210(4), 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: Spring Semester 2004

Blue Sheet Item #: 32-01-075

Review Date: 10/6/05

IS

International Studies Minor

Abington College (INTAB)

University College (INTCC): Penn State Brandywine, Penn State Worthington Scranton

University Park, College of the Liberal Arts (INSTD)

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 course work. 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

Philosophy Minor

Abington College (PHLAB)
University College (PHLCC): Penn State Fayette
University Park, College of the Liberal Arts (PHIL)

PROFESSOR SHANNON SULLIVAN, *Head of the Department*

Many students find that their studies in their major field can be profitably supplemented by pursuing their studies in Philosophy. The Philosophy minor is designed for students who desire a significant background in Philosophy while majoring in a different field. Students from many disciplines pursue Philosophy minors, including English, History, Physics, Mathematics, Management Studies, and so on. Declaring a minor in Philosophy will allow you to continue your Philosophy studies throughout your degree, and you will receive a certificate in Philosophy when you graduate.

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)

In consultation with a faculty adviser:

Select 6 credits of Philosophy courses (Sem: 1-6)

Select 6 credits of Philosophy courses at the 200 level (Sem: 3-6)

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

Last Revised by the Department: Fall Semester 2001

Psychology Minor

Penn State Abington (PSYAB)
Penn State Altoona (PSYAL)
Penn State Harrisburg (PSYCA)
University College (PSYCC): Penn State Beaver, Penn State Fayette, Penn State Greater Allegheny, Penn State New Kensington, Penn State Schuylkill
University Park, College of the Liberal Arts (PSY)

PROFESSOR KEITH CRNIC, *Head*

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

Sociology Minor

Penn State Abington (SOCAB)
Penn State Altoona (SOCAL)
Penn State Harrisburg (SOCCA)
University College (SOCCC): Penn State Fayette, Penn State Schuylkill
University Park, College of the Liberal Arts (SOC)

PROFESSOR JOHN McCARTHY, *Head*

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

PRESCRIBED 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

Department head updated: 11/30/07

Women's Studies Minor

Abington College (WMNAB)

Altoona College (WMNAL)

Penn State Erie, The Behrend College (WMNBC)

University College (WMNCC): Penn State Brandywine, Penn State DuBois, Penn State Mont Alto

University Park, College of the Liberal Arts (WMNST)

PROFESSOR LORRAINE DOWLER, *Director*

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(3) (Sem: 1-4)

ADDITIONAL COURSES (3 credits)

WMNST 001 GS;US;IL(3) or WMNST 003 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

Last Revised by the Department: Spring Semester 2002

Blue Sheet Item #: 30-02-008A

Review Date: 6/29/05

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The University reserves the right to change the requirements and regulations listed here and to determine whether a student has satisfactorily met its requirements for admission or graduation, and to reject any applicant for any reason the University determines to be material to the applicant's qualifications to pursue higher education. Nothing in this material should be considered a guarantee that completion of a program and graduation from the University will result in employment.

The University Faculty Senate has responsibility for and authority over all academic information contained in the Undergraduate Bulletin.