



University Bulletin

Undergraduate Degree Programs

Penn State DuBois

Penn State DuBois, located along Route 225 at College Place in the city of DuBois, is easily accessible from Interstate 80 and Routes 119 and 219 in western Pennsylvania. The campus houses eight major buildings that give students, faculty, and staff space for classes, sporting events, and other activities. Students who attend Penn State DuBois live at home or in off-campus housing. Most students live within an hour's drive of the campus.

The campus serves a diverse population of students, both traditional and adult, who are from Pennsylvania, the United States, and other countries. Students can participate in sports teams for varsity, intramural, and club sports. Extracurricular clubs and organizations are available to serve the interests of students. The campus also has strong ties with the surrounding communities.

Penn State DuBois offers baccalaureate and associate degree programs, as well as the first two years of more than 160 Penn State baccalaureate programs. Students can begin their education at DuBois and move on to the University Park campus or other appropriate Penn State campus in order to complete their degree. Penn State DuBois also offers a master's degree program in conjunction with Penn State Harrisburg. Check the links along the side for available academic programs.

Baccalaureate Degrees

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 IL(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)

Earth Sciences

University College: Penn State DuBois

University Park, College of Earth and Mineral Sciences (EARTH)

PROFESSOR DAVID M. BICE, *Associate Head for Undergraduate Programs*

This major provides a comprehensive program in environmental sciences based on a strong emphasis in earth sciences. It is especially directed toward study of the problems that arise from the complex interaction of man's technological and social activities with the natural environment. Graduates are in demand for positions in government, industry, and consulting. Professional activities include gathering and evaluating data on environments; management and coordination of specialized programs in environmental control and modification; and industrial and government planning. Suitable choices of courses may qualify students for graduate work in several fields.

For the B.S. degree in Earth Sciences, a minimum of 123 credits is required.

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

GENERAL EDUCATION: 45 credits

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

(See description of General Education in this bulletin.)

FIRST-YEAR SEMINAR:

(Included in REQUIREMENTS FOR THE MAJOR)

UNITED STATES CULTURES AND INTERNATIONAL CULTURES:

(Included in GENERAL EDUCATION course selection)

WRITING ACROSS THE CURRICULUM:

(Included in REQUIREMENTS FOR THE MAJOR)

REQUIREMENTS FOR THE MAJOR: 99-101 credits

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

PRESCRIBED COURSES (31 credits)

CHEM 110 GN(3), CHEM 111 GN(1), CHEM 112 GN(3), CHEM 113 GN(1), EM SC 100S GWS(3)[\[71\]\(#mnote71\)](#), MATH 140 GQ(4), MATH 141 GQ(4) (Sem: 1-2)
PHYS 211 GN(4), PHYS 212 GN(4) (Sem: 1-4)
BIOL 110(4) (Sem: 3-4)

ADDITIONAL COURSES (36 credits)

ENGL 015 GWS(3) or ENGL 030 GWS(3) (Sem: 1-2)

Select 15 credits of introductory earth science from the following list (courses may not double count with minor requirements): EARTH 002 GN(3), EARTH 101 GN(3), EARTH 103 GN(3), EARTH 105 GN(3), METEO 003 GN(3), METEO 022(2), GEOG 030 GS(3), GEOG 110 GN(3), GEOG 111 GN(3), GEOG 115 GN(3), GEOG 160(3), GEOSC 001(3), GEOSC 021 GN(3), SOILS 101 GN(3) (Sem: 1-6)

Select 15 credits[\[1\]\(#mnote01\)](#) of advanced earth science from the following list (courses may not double count with minor requirements): GEOG 430(3), GEOG 438W(3), GEOG 412W(3), GEOSC 204(4), GEOSC 320(3), GEOSC 340(3), GEOSC 402W(3), GEOSC 416(3), METEO 300(4), METEO 431(3), METEO 475(3) (Sem: 3-8)

Select 3 credits of writing-intensive courses from within Earth and Mineral Sciences to include, but not limited to: GEOG 412W(3), GEOG 310W(3), GEOSC 402W(3), GEOSC 470W(3), METEO 471W(3) (Sem: 7-8)

SUPPORTING COURSES AND RELATED AREAS (32-34 credits)

Select 3-4 credits of advanced math, statistics, computer science in consultation with an adviser (Sem: 5-8)

Select 3 credits of field, laboratory experience in consultation with an adviser (Sem: 5-8)

Select 8-9 credits in other approved courses (Students may apply 6 credits of ROTC) (Sem: 5-8)

Select 18 credits[\[1\]\(#mnote01\)](#), in consultation from an adviser, from one of the following Earth and Mineral Sciences interdisciplinary minors:

CLIMATOLOGY

MARINE SCIENCE

WATERSHEDS & WATER RESOURCES

EARTH SYSTEMS

GLOBAL BUSINESS STRATEGIES FOR EARTH AND ENVIRONMENTAL INDUSTRIES

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

[71] The following substitutions are allowed for students attending campuses where the indicated course is not offered: CAS 100 GWS or ENGL 202C GWS can be substituted for EM SC 100S GWS.

Last Revised by the Department: Summer Session 2000

Blue Sheet Item #: 28-05-017

Review Date: 1/20/04

UCA Revision #1: 8/3/06

Department Head Change: 4/12/05

EM

Human Development and Family Studies

Penn State Altoona (HFSAL)

Penn State Harrisburg (HFSCA)

University College (HFSCC): Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Mont Alto, Penn State Shenango, Penn State Worthington-Scranton, Penn State York

College of Health and Human Development (HD FS)

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

PROFESSOR STEVEN H. ZARIT, *Head of the Department*

This major is a multidisciplinary program that examines the development of individuals and families across the life span. It enables students to prepare for professional, managerial, or scientific roles in health and human services professions, in public and nonprofit agencies, and in business and industry, as well as for advanced professional or graduate study. Students obtain a broad background in individual and family development across the life span. Courses emphasize biological, psychological, social/cultural, and economic aspects of development. Through course work and undergraduate internships or research projects, students develop skills relevant to career objectives, such as counseling, human assessment, program planning and evaluation, and research.

Two options are available within the major: (1) Life Span Human Services option and (2) Life Span Developmental Science option. The introductory paragraph to each of the options includes a brief list of career opportunities. More extensive descriptions of career opportunities in both public and private sectors are available for the program.

LIFE SPAN HUMAN SERVICES OPTION: This option focuses on the acquisition and application of scientific knowledge about development and family functioning across the life span for the purposes of enhancing personal and family development. Courses emphasize: (1) understanding the biological, psychological, and social development across the life span, and the structuring and functioning of families; (2) understanding basic theoretical and methodological issues; and (3) the development of applied skills in intervention and evaluation, prevention, and in the formulation of social policy. An approved field experience in a setting that serves children, youth, adults, or the aged is required for this option. Typical employment settings include preschools, daycare centers, hospital programs for children, youth, and families, institutional and community mental health programs for individuals and families, programs for abused or neglected children and adolescents, women's resource centers, human resources programs, employee assistance programs, nursing homes, area agencies on aging and other community settings for older adults, and public welfare and family service agencies. Typical postgraduate pursuits of students completing this option include graduate study in human development, family studies, psychology, or sociology, or advanced professional training in psychology, law, behavioral health, counseling or social work.

LIFE SPAN DEVELOPMENTAL SCIENCE OPTION: This option focuses on the understanding of contemporary methodological approaches to the acquisition of scientific knowledge about individual development over the life span and about family development. This

option provides preparation for advanced training in careers in developmental or family research, teaching at a college or university, or for professional careers that require graduate training. Courses within this option emphasize a thorough understanding of the theory and methods of developmental and family theory and research. An approved, multi-semester research practicum is an integral component of this option. Typical postgraduate pursuits of students completing this option include graduate study in human development, family studies, psychology, or sociology, or advanced professional training in psychology, law, behavioral health, social work, or in other programs related to services for individuals and families.

For the B.S. degree in Human Development and Family Studies, a minimum of 120 credits is required.

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

GENERAL EDUCATION: 45 credits
(3-4 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 ELECTIVES, GENERAL EDUCATION course selections, or REQUIREMENTS FOR THE MAJOR)

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

ELECTIVES: 3-5 credits

REQUIREMENTS FOR THE MAJOR: 73-76 credits
(This includes 3-4 credits of General Education GQ courses.)

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

PRESCRIBED COURSES (18 credits) [1](#mnote01)
HD FS 129 GS(3), HD FS 301(3), HD FS 311(3), HD FS 312W(3), HD FS 315
US(3) [93](#mnote93), HD FS 418(3) (Sem: 3-6)

ADDITIONAL COURSES (12-13 credits) [1](#mnote01)
Select 6 credits from HD FS 229 GS(3), HD FS 239 GS(3), HD FS 249 GS(3) (Sem: 1-4)
STAT 200 GQ(4) or EDPSY 101 GQ(3) (Sem: 1-4)
Select 3 credits of United States Cultures (US [92](#mnote92)) (Sem: 4-8)

REQUIREMENTS FOR THE OPTION: 43-45 credits

LIFE SPAN HUMAN SERVICES OPTION: (43-45 credits)

PRESCRIBED COURSES (9 credits) [1](#mnote01)
HD FS 411(3), HD FS 414(3), HD FS 455(3) (Sem: 5-8)

ADDITIONAL COURSES (22-24 credits) [1]
(#mnote01) Select 3 credits from HD FS 428(3), HD FS 429(3), HD FS 433(3) or HD FS
445(3) (Sem: 5-8)
Select 6 credits from 300- or 400-level HD FS courses (Sem: 5-8)
Select 13-15 credits from (a) or (b)
(a) Approved field practice in a human service setting: HD FS 490(2), HD FS 495A(9), HD
FS 495B(3) (Sem: 5-8)

(b) Approved group project or field practice in human service setting: HD FS 401(3), HD FS 402(4), HD FS 495C(6-8) (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (12 credits)

Select 12 credits (minimum of 6 credits at the 400 level) in consultation with adviser from University-wide offerings that develop competency in the option (a grade of C or better is required in any HD FS course taken to satisfy this requirement) (Sem: 5-8)

LIFE SPAN DEVELOPMENTAL SCIENCE OPTION: 45 credits

PRESCRIBED COURSES (6 credits) [1](#mnote01)

HD FS 494(6) or HD FS 494H(6) (Sem: 5-8)

ADDITIONAL COURSES (21 credits) [1](#mnote01)

Select 6 credits from HD FS 428(3), HD FS 429(3), HD FS 433(3), HD FS 445(3) (Sem: 5-8)

Select 15 credits (minimum of 9 credits at the 400-level) from HD FS courses (Sem: 5-8)

SUPPORTING COURSES AND RELATED AREAS (18 credits)

Select 18 credits (minimum of 9 credits at the 400 level) in consultation with adviser from University-wide offerings that develop competency in option (a grade of C or better is required in any HD FS course taken to satisfy this requirement) (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.

[92] This course is in addition to the 6 credits of United States Cultures and International Cultures.

[93] This course fulfills the University's United States Cultures requirement.

Last Revised by the Department: Summer Session 2006

Blue Sheet Item #: 34-02-111

Review Date: 10/11/05

HH

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:

- 12 credits at the 400 level representing at least three different subject areas;
- a 3 credit 400-level capstone course (to be selected in consultation with adviser);
- 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: 4-8)

[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: 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

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(3) [\[1\]\(#mnote01\)](#), MIS 204(3) (Sem: 2-4)

ADDITIONAL COURSES (17-18 credits)

ENGL 015 GWS(3) [\[1\]\(#mnote01\)](#) or ENGL 030 GWS(3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)

MATH 021 GQ(3), MATH 022 GQ(3), or MATH 110 GQ(4) (Sem: 1-2) [\[74\]\(#mnote74\)](#)

B A 243(4) [\[1\]\(#mnote01\)](#) or B A 241(2) [\[1\]\(#mnote01\)](#) and B A 242(2) [\[1\]\(#mnote01\)](#)
(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(3) [\[1\]\(#mnote01\)](#) or MGMT 301W(3) [\[1\]\(#mnote01\)](#)
(Sem: 3-4)

b) Select 3 credits from MKTG 301(3) [\[1\]\(#mnote01\)](#) or MKTG 301W(3) [\[1\]\(#mnote01\)](#)
(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), MATH 110 GQ(4),

MKTG 220(3) (Sem: 1-4)

PROFESSIONAL STUDIES OPTION: (18 credits) [75](#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 MGMT 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

Human Development and Family Studies

Altoona College (2FSAL)

University College (2FSCC): Penn State Brandywine, Penn State DuBois, Penn State Fayette, Penn State Mont Alto, Penn State Schuylkill, Penn State Shenango, Penn State Worthington Scranton, Penn State York

University Park, College of Health and Human Development (2EHFS)

World Campus

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

For more information, contact: Mary Jo Spicer, S-120 Henderson Building

This major integrates practical and academic experiences to provide the student with entry-level professional competence in the human service field. The objective of the major is to offer a general education background, a knowledge base in life span and family development, and a core of professional skills that may be applied in program planning and service delivery activities. The major is offered part-time, in the evening, and through independent learning.

ADULT DEVELOPMENT AND AGING SERVICES OPTION: This option is designed to prepare students for a wide variety of service roles in mental health facilities, nursing homes and other institutions for the aged, area agencies on aging, public welfare and family service agencies, women's resource centers, human relations programs, employee assistance programs and customer services and consumer relations programs in business

and industry. An improved field experience in any of a wide variety of settings that serve adults, the aged, and their families, is required for this option.

CHILDREN, YOUTH, AND FAMILY SERVICES OPTION: This option is designed to prepare students for service roles in preschools; day care centers; hospitals; institutional and community programs for emotionally disturbed, abused, or neglected children and adolescents; as well as a variety of public welfare and family service agencies. An approved field experience in a children, youth, or family services setting is required for this option.

EARLY CHILDHOOD CARE AND EDUCATION OPTION: This option is designed to increase professional capabilities in child care training in regard to issues of quality, affordability, and accessibility of programming. The primary foci are on language, literacy, and science reasoning. In the course work, there is a blending of theory and practice that requires experience in a group setting with young children. Courses concentrate on infants and toddlers as well as older preschoolers. Each course has a strong parent/family communications component and stresses observation techniques appropriate for assessing and evaluating the development of young children.

For the Associate in Science degree in Human Development and Family Studies, a minimum of 60 credits is required.

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

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

ELECTIVES: 0-3 credits

REQUIREMENTS FOR THE MAJOR: 51-55 credits
(This includes 15 credits of General Education courses: 6 credits of GWS courses; 3 credits of GS courses; 3 credits of GN courses; and 3 credits of GQ courses.)

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

PRESCRIBED COURSES (21 credits)
CAS 100 GWS(3), ENGL 015 GWS(3), HD FS 129 GS(3) [\[1\]\(#mnote01\)](#), HD FS 301(3) [\[1\]\(#mnote01\)](#), PSYCH 100 GS(3) (Sem: 1-2)
HD FS 395(6) (Sem: 3-4)

ADDITIONAL COURSES (9-10 credits)
EDPSY 101 GQ(3) [\[1\]\(#mnote01\)](#), STAT 100 GQ(3) [\[1\]\(#mnote01\)](#), or STAT 200 GQ(4) [\[1\]\(#mnote01\)](#) (Sem: 1-2)
HD FS 315 US(3) [\[1\]\(#mnote01\)](#) or SOC 030 GS(3) (Sem: 3-4)
BIOL 141 GN(3), BIOL 155 GN(3), or BI SC 004 GN(3) (Sem: 3-4)

REQUIREMENTS FOR THE OPTION: 21-24 credits

ADULT DEVELOPMENT AND AGING SERVICES OPTION: (21 credits)

PRESCRIBED COURSES (6 credits)
HD FS 249 GS(3) [\[1\]\(#mnote01\)](#), HD FS 311(3) [\[1\]\(#mnote01\)](#) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (15 credits)
Select 15 credits in consultation with the adviser from University-wide offerings that enhance competence in the option (Sem: 1-4)

CHILDREN, YOUTH, AND FAMILY SERVICES OPTION: (24 credits)

PRESCRIBED COURSES (9 credits)

HD FS 229 GS(3) [\[1\]\(#mnote01\)](#), HD FS 239 GS(3) [\[1\]\(#mnote01\)](#), HD FS 311(3) [\[1\]\(#mnote01\)](#) (Sem: 1-4)

SUPPORTING COURSES AND RELATED AREAS (15 credits)

Select 15 credits in consultation with the adviser from University-wide offerings that enhance competence in the option (Sem: 1-4)

EARLY CHILDHOOD CARE AND EDUCATION OPTION: (24 credits)**PRESCRIBED COURSES** (24 credits)

HD FS 229 GS(3) [\[1\]\(#mnote01\)](#), HD FS 230(3) [\[1\]\(#mnote01\)](#), HD FS 231(3) [\[1\]\(#mnote01\)](#), HD FS 311(3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)
HD FS 232(3) [\[1\]\(#mnote01\)](#), HD FS 233(3) [\[1\]\(#mnote01\)](#), HD FS 234(3) [\[1\]\(#mnote01\)](#), HD FS 330(3) [\[1\]\(#mnote01\)](#) (Sem: 3-4)

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

Last Revised by the Department: Spring Semester 2005

Blue Sheet Item #: 33-03-026

Review Date: 12/19/07

UCA Revision #1: 8/8/06

HH

Information Sciences and Technology

Berks College

Continuing Education

University College: Penn State Beaver, Penn State DuBois, Penn State Fayette, 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 University Park, College of Information Sciences and Technology(2 IST) World Campus

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

PROFESSOR MICHAEL D. McNEESE, *in charge*

This associate degree major is structured to prepare graduates for immediate and continuing employment opportunities in the broad disciplines of information science and technology. This includes positions such as application programmers, associate systems designers, network managers, Web designers and administrators, or information systems support specialists. Specifically, the major is designed to ensure a thorough knowledge of information systems and includes extensive practice using contemporary technologies in the creation, organization, storage, analysis, evaluation, communication, and transmission of information. The major fosters communications, interpersonal, and group interaction skills through appropriate collaborative and active learning projects and experiences. Technical material covers the structure of database systems, Web and multi-media systems, and considerations in the design of information systems. Team projects in most courses, a required internship, and a second-year capstone experience provide additional, focused venues for involving students in the cutting-edge issues and

technologies in the field.

The Associate of Science in IST degree will be offered at multiple campuses within the Penn State system of colleges and campuses. Note that not all options will be available at all locations.

Baccalaureate Option: This option provides maximum articulation with the Baccalaureate Degree. Students who complete this option will meet all lower division requirements for the Baccalaureate Degree. This is not the case with the remaining options, although the degree of articulation is quite high for all Associate Degree Options.

Generalized Business Option: This option enables students to specialize in the general business areas of accounting, marketing, and management.

Individualized Option: This option enables students to work closely with an adviser to develop a plan of study that meets the dual objectives of allowing a flexible academic program and providing breadth of technical specialization. An example would be a program where a student would take some of the courses listed in the Web Administration Option and the remainder in the Software Option.

Software Option: This option prepares graduates for entry-level programming support positions in industry. Students take courses in Web programming, database programming, and other contemporary programming environments.

Web Administration Option: This prepares graduates for positions as Web administrators and Web programmers.

Networking Option: This option prepares graduates for positions as entry-level computer network administrators. Students take courses in personal computer hardware, networking essentials, and network administration.

Data/Information Option: This option prepares graduates for entry-level database support positions. Students take courses in relational database systems and database management.

Industrial/Manufacturing Option: This option prepares graduates for entry-level manufacturing information systems positions. Students take courses in electrical and mechanical systems, and business and industrial processes.

Telecommunications Option: This option prepares graduates for entry-level positions in the telecommunications industry. Students take courses in voice and data communications, protocols, networks, and wireless systems.

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

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

GENERAL EDUCATION: 21 credits
(9-12 of these 21 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See the description of General Education in this bulletin.)

ELECTIVES: 2-6 credits

REQUIREMENTS FOR THE MAJOR: 45-47 credits
(This includes 9-12 credits of General Education courses, i.e., ALL options: 3 credits of GQ courses; 6 credits of GWS courses. The Baccalaureate Option also includes 3 credits of GS courses to equal a total of 12 credits that double count; the General Business Option also includes 0-3 credits of GS courses to equal 9-12 credits that double count.)

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

PRESCRIBED COURSES (26 credits)CMPSC 101 GQ(3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)CAS 100B GWS(3), IST 110 GS(3) [\[1\]\(#mnote01\)](#), IST 111S(1), IST 210(4) [\[1\]\(#mnote01\)](#),IST 220(3) [\[1\]\(#mnote01\)](#), IST 250(3), ENGL 015 GWS(3) (Sem: 1-2)

IST 260W(3) (Sem: 3-4)

ADDITIONAL COURSES (4 credits)

ENGL 202C GWS(3) or ENGL 202D GWS(3) (Sem: 3-4)

IST 295A(1) or IST 295B(1) (Sem: 3-4)

REQUIREMENTS FOR THE OPTION: 15-18 credits**BACCALAUREATE OPTION:** (17-18 credits)**PRESCRIBED COURSES** (13 credits)

IST 230(3) and IST 240(3) (Sem: 3-4)

ECON 002 GS(3) (Sem: 3-4)

STAT 200 GQ(4) (Sem: 3-4)

ADDITIONAL COURSES (4 credits)

MATH 110 GQ(4) or MATH 140 GQ(4) (Sem: 1-2)

GENERALIZED BUSINESS OPTION: (15-16 credits)**ADDITIONAL COURSES** (15-16 credits)

Select 15 credits in consultation with the adviser from the following list: (Sem:1-4)

ACCTG 151(3), ACCTG 152(3), ACCTG 153(3), ACCTG 160(3), ACCTG 170(3), ACCTG

186(3), ACCTG 211(4), B A 250(3), MKTG 220(3), MKTG 221(3), MKTG 310(3), MKTG

327(3), MGMT 100(3), MGMT 150(3), MGMT 321(3), MGMT 341(3)

ECON 002 GS(3), ECON 004 GS(3), or ECON 014 GS(3)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3)

INDIVIDUALIZED OPTION: (15 credits)**SUPPORTING COURSES AND RELATED AREAS** (15 credits)

Select 15 credits in consultation with an adviser that follow a coherent theme in information sciences and technology. (Sem: 1-4)

SOFTWARE OPTION: (15 credits)**PRESCRIBED COURSES** (12 credits)

CMPSC 302(3) (Sem: 2-4)

IST 211(3), IST 247(3), and IST 256(3) (Sem: 3-4)

ADDITIONAL COURSES (3 credits)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3) (Sem: 1-2)

NETWORKING OPTION: (15 credits)**PRESCRIBED COURSES** (12 credits)

IST 225(3), IST 226(3), IST 227(3), and IST 228(3) (Sem: 3-4)

ADDITIONAL COURSES (3 credits)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3) (Sem: 1-2)

WEB ADMINISTRATION OPTION: (15 credits)**PRESCRIBED COURSES** (12 credits)

IST 255(3), IST 256(3), IST 257(3), and IST 258(3) (Sem: 3-4)

ADDITIONAL COURSES (3 credits)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3) (Sem: 1-2)

MANUFACTURING OPTION: (16 credits)

PRESCRIBED COURSES (12 credits)

IST 271(3), IST 272(3), IST 273(3), and IST 274(3) (Sem: 3-4)

ADDITIONAL COURSES (4 credits)

MATH 110(4) or MATH 140(4) (Sem: 1-2)

TELECOMMUNICATIONS OPTION: (15 credits)

PRESCRIBED COURSES (12 credits)

IST 221(3), IST 222(3), IST 223(3), and IST 224(3) (Sem: 3-4)

ADDITIONAL COURSES (3 credits)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3) (Sem: 1-2)

DATA/INFORMATION OPTION: (15 credits)

PRESCRIBED COURSES (12 credits)

IST 211(3), IST 212(3), IST 213(3), and IST 214(3) (Sem: 3-4)

ADDITIONAL COURSES (3 credits)

MATH 017 GQ(3), MATH 021 GQ(3), MATH 022 GQ(3), or MATH 026 GQ(3) (Sem: 1-2)

[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 #: 31-04-085

Review Date: 10/6/05

UCA Revision #2: 7/27/07

IS

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 checksheet, which may be obtained from the College of the Liberal Arts associate dean for undergraduate studies at the University Park campus or from any Letters, Arts, and Sciences representative at other locations.

Last Revised by the Department: Summer Session 1988

Blue Sheet Item #: 16-10-044

Review Date: 10/8/02

Reviewed by Publications: 06/23/06

LA

Materials Engineering Technology

University College (2MATE): Penn State DuBois

PROFESSOR STEVEN JOHNSON, *Program Coordinator*

The curriculum of the program provides students with an introduction to the range of practical skills needed to be an engineering technician in materials-related industries and organizations. The program emphasizes particulate materials technology, but the student is prepared for entry-level positions in other materials-related organizations.

Among the responsibilities of a materials technician are carrying out a variety of destructive and nondestructive tests or special problem-solving projects that require property or failure analysis. Other duties may entail preparing or examining samples under a microscope, using materials specifications or blueprints, or developing and debugging materials processing procedures.

The primary goal of the program is achieved through a core of materials engineering topics, including structure and properties of engineering materials, materials testing, powder metallurgy, and materials characterization. The technical courses are supported by foundation courses in written and oral communications, technical mathematics and calculus, chemistry, physics, computer-aided drafting (CAD), and basic engineering topics. This program is one of the Pennsylvania Department of Education-approved Tech Prep programs. Secondary school students who have graduated from a program covered by a signed Penn State Articulation Agreement may be eligible for special admission procedures and/or advanced placement. Graduates of the Associate Degree Materials Engineering Technology program will:

Have a broad knowledge in the area of materials engineering, materials testing, materials characterization, particulate materials processing, technical problem solving, and hands on application of engineering technology.

Have the ability to further their education through additional degree study in related fields, short courses, and/or industrial training.

Be prepared to communicate effectively and work collaboratively in multi-disciplinary, team orientated work environments.

Have the ability to learn and adapt to rapid changes in chosen technical field of education and professional work environments.

Demonstrate a high standard of professional ethics and be cognizant of social concerns as they relate to the practice of engineering technology.

For the Associate in Engineering Technology degree in Materials Engineering Technology, a minimum of 64 credits is required.

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

GENERAL EDUCATION: 21 credits

(12 of these 21 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in front of *Bulletin*.)

REQUIREMENTS FOR THE MAJOR: 55 credits

(This includes 12 credits of General Education courses; 6 credits of GWS courses; 3 credits of GN courses; 3 credits of GQ courses.)

PRESCRIBED COURSES (49 credits)

CAS 100 GWS(3), CHEM 110 GN(3), CHEM 111 GN(1), EET 101(3), EET 109(1), EG T 101(1), EG T 102(1), ENGL 015 GWS(3), ET 002(1), MATH 081 GQ(3), MATH 082 GQ(3), PHYS 150 GN(3) (Sem: 1-2)
IET 109(3), MAE T 201(3) [\[1\]\(#mnote01\)](#), MAE T 202(3) [\[1\]\(#mnote01\)](#), MAE T 203(3) [\[1\]\(#mnote01\)](#), MAE T 204W(3), MAE T 205(4) [\[1\]\(#mnote01\)](#), MATH 083 GQ(4) [\[1\]\(#mnote01\)](#) (Sem: 3-4)

ADDITIONAL COURSES (6 credits)

Select 6 credits from the following technical courses: EGT 114(2), EGT 201(2), EGT 297(2), MCH T 111(3), MCH T 213(3), MCH T 214(1), MAE T 297(3) (Sem: 3-4)

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

Last Revised by the Department: Spring Semester 2006

Blue Sheet Item #: 34-05-127A

Review Date: 5/2/07

UCA Revision #1: 8/9/06

UCA Revision #2: 7/30/07

EN

Mechanical Engineering Technology

Altoona College

Berks College

Penn State Erie, The Behrend College

University College: Penn State DuBois, Penn State Hazleton, Penn State New Kensington, Penn State York (2 MET)

PROFESSOR BRUCE MULLER, *Program Coordinator, Penn State Altoona*

PROFESSOR BARBARA MIZDALL, *Program Coordinator, Penn State Berks*
PROFESSOR DAVID JOHNSON, *Program Coordinator, Penn State Erie, The Behrend College*
PROFESSOR SOMNATH CHATTOPADHYAY, *Program Coordinator, Penn State DuBois*
PROFESSOR WIESLAW GREBSKI, *System-wide Program Coordinator, Penn State Hazleton*
PROFESSOR JOAN KOWALSKI, *Program Coordinator, Penn State New Kensington*
PROFESSOR DANIEL STYDUHAR, *Program Coordinator, Penn State Shenango*
PROFESSOR MARSHALL COYLE, *Program Coordinator, Penn State York*
PROFESSOR DHUSHY SATHIANATHAN, *Head, School of Engineering Design, Technology, and Professional Programs, Penn State University Park*

This major helps graduates prepare for technical positions in manufacturing, machine and tool design, computer drafting and design, computer integrated manufacturing, materials selection and processes, technical sales, and other related industries in mechanical applications. The primary objective of the program is to provide a broad foundation in mechanical systems and applications; computer systems in drafting (CAD), manufacturing (CAM), and automation and robotics (CIM); production and product design; mechanics, dynamics, and strength of materials. This program also articulates with Pennsylvania Department of Education-approved Tech Prep programs. Secondary students who have graduated from a program covered by a signed Penn State Tech Prep Articulation Agreement may be eligible for special admission procedures and/or advanced placement. Graduates of the Associate Degree Mechanical Engineering Technology program will:

Have a broad knowledge in the areas of applied design, manufacturing, testing, evaluation, and technical sales, 2D and 3D modeling.

Have the ability to enter a Baccalaureate Mechanical Engineering Technology or related Engineering Technology program.

Be prepared to communicate effectively and work collaboratively in multi-disciplinary teams.

Be able to learn and adapt to changes in a professional work environment.

Demonstrate a high standard of professional ethics and be cognizant of social concerns as they relate to the practice of Engineering Technology.

Graduates of this major may qualify for admission to the baccalaureate degree majors in Mechanical Engineering Technology and Structural Design and Construction Engineering Technology programs at Penn State Harrisburg; the Mechanical Engineering Technology and the Plastics Engineering Technology programs at Penn State Erie, The Behrend College; or the baccalaureate degree major in Electro-Mechanical Engineering Technology offered at Penn State Altoona, Penn State Berks, Penn State New Kensington, or Penn State York.

For the Associate in Engineering Technology degree in Mechanical Engineering Technology, a minimum of 64 credits is required. This program is accredited by the Technology Accreditation Commission of ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: 410-347-7700, or www.abet.org.

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

GENERAL EDUCATION: 21 credits

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

(See description of General Education in front of *Bulletin*)

REQUIREMENTS FOR THE MAJOR: 55-57 credits

(This includes 12 credits of General Education courses: 3 credits of GN courses; 3 credits of GQ courses; 6 credits of GWS courses.)

PRESCRIBED COURSES (31 credits)

ENGL 015 GWS(3), CAS 100 GWS(3), CMPET 117(3), CMPET 120(1), MCH T 111(3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)

EG T 114(2), IET 215(2), IET 216(2), MCH T 213(3), MET 206(3) [\[1\]\(#mnote01\)](#), MET 210W(3), PHYS 151 GN(3) (Sem: 3-4)

ADDITIONAL COURSES (24-26 credits)

EDSGN 100(3) or EG T 120(3) (Sem: 1-2)

MATH 026 GQ(3) or MATH 081 GQ(3) (Sem: 1-2)

EET 100(3) or EET 105(3) (Sem: 1-2)

IET 101(3) [\[1\]\(#mnote01\)](#) or MET 105 (3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)

MATH 022(3) or MATH 082 GQ(3) (Sem: 1-2)

MCH T 112(1) or MCH T 214(1) (Sem: 1-2)

Select 8-10 credits from one of the following tracks a, b, or c:

a) General Track

AE T 297(1-9), CHEM 101 GN(3), CHEM 110 GN(3), CHEM 111 GN(1), CMPSC 101 GQ(3), EET 100(3), EET 114(4), EET 118(1), EG T 297(1-9), IET 105(2), IET 109(3), IET 297(1-9), MET 281(4), SUR 111(3), or select 3 credits in consultation with an advisor from 200-level MET courses (Sem: 3-4)

IST 110 GS(3), IST 210(4), IST 220(3), IST 250(3), MATH 140 GQ(4), STAT 200 GQ(4), MATH 083 GQ(4), PHYS 150 GN(3), EG T 201(2) (Sem: 3-4)

b) CAD/IST Track

EG T 201(2) (Sem: 3-4)

IST 210(4) or IST 220(3) or IST 250 (3) (Sem: 3-4)

Select 3 credits in consultation with an advisor from 200-level MET courses (Sem: 3-4)

c) Baccalaureate Degree Track

MATH 140 GQ(4), STAT 200 GQ(4), CHEM 110 GN(3), EET 114(4), EG T 201(2) (Sem: 3-4)

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

Last Revised by the Department: Fall Semester 2008

Blue Sheet Item #: 36-03-019

Review Date: 11/27/07

UCA Revision #1: 8/3/06

UCA Revision #2: 7/30/07

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

EN

Occupational Therapy

Berks College (2OTBL)

University College (2OTCC): Penn State DuBois, Penn State Mont Alto

This major helps graduates prepare to be occupational therapy assistants who are qualified to be employed by agencies that provide occupational therapy and related services. The goal of occupational therapy is to enable the client to be as independent as possible in the daily performance of self-care, productive, and leisure occupations. General education, basic science, and occupational therapy courses are followed by supervised field experience. Upon successful graduation from the program, students must sit for and successfully pass the NBCOT national certification examination to practice. Most states also require licensure as a condition for employment. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination and obtain licensure. NBCOT may be contacted at NBCOT, 800 South Frederick Street, Gaithersburg, MD 20877. 301-990-7979 or on the Web at www.NBCOT.org.

To enter this major, students must have a high school diploma or its equivalent. To be admitted to degree candidacy, the applicant must have completed educational background requirements called Carnegie Units or Secondary School Units. Students are responsible for proof of liability insurance and other requirements specified by the facility providing supervised field experience.

The size of each entering class is limited so that optimal clinical experiences and practical application situations can be maintained. Students enter the program only during the fall semester and are expected to progress through the program in the prescribed manner. Fieldwork affiliations are maintained over a wide geographical area. Students may be required to make special housing and transportation arrangements during the fieldwork phase. Students must complete all Level II fieldwork within eighteen months of successful completion of OTA didactic course work.

The Penn State Occupational Therapy program is fully accredited by ACOTE which can be reached at: Accreditation Council for Occupational Therapy Education, P. O. Box 31220, Bethesda, MD 20824-1220, telephone number 301-652-2682.

For the Associate in Science degree in Occupational Therapy, a minimum of 64 credits is required.

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

GENERAL EDUCATION: 21 credits

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

REQUIREMENTS FOR THE MAJOR: 55 credits

(This includes 12 credits of General Education courses; 3 credits of GWS courses; 6 credits of GS courses; 3 credits of GN courses.)

PRESCRIBED COURSES (55 credits)

BIOL 129 GN(4) [\[1\]\(#mnote01\)](#), BIOL 141 GN(3) [\[1\]\(#mnote01\)](#), BIOL 142

(1) [\[1\]\(#mnote01\)](#), ENGL 015 GWS(3), HD FS 129 GS(3), O T 100(1), O T

101(3) [\[1\]\(#mnote01\)](#), PSYCH 100 GS(3) (Sem: 1-2)

O T 103 US(3) [\[1\]\(#mnote01\)](#), O T 105W(3) [\[1\]\(#mnote01\)](#), O T 107(3) [\[1\]\(#mnote01\)](#)

(Sem: 2-3)

KINES 013 GHA(1), O T 202(3) [\[1\]\(#mnote01\)](#), O T 204(3) [\[1\]\(#mnote01\)](#), O T

206(3) [\[1\]\(#mnote01\)](#), PSYCH 243 GS(3) (Sem: 3-4)

O T 295A(6) [\[1\]\(#mnote01\)](#), O T 295B(6) [\[1\]\(#mnote01\)](#) (Sem: 4-5)

[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: Summer Session 2004

Blue Sheet Item #: 32-04-022

Review Date: 5/4/04

UCA Revision #1: 8/9/06

Physical Therapist Assistant

University College (2 PTA): Penn State DuBois, Penn State Hazleton, Penn State Mont Alto, Penn State Shenango

PROFESSOR THOMAS E. GLUMAC, *Director, Penn State Mont Alto*
PROFESSOR BARBARA E. REINARD, *Coordinator, Penn State DuBois*
PROFESSOR ROSE PETRILLA, *Coordinator, Penn State Hazleton*
PROFESSOR RICHARD L. HOLZWORTH, *Coordinator, Penn State Shenango*

This major helps prepare individuals to become skilled technical health workers who assist the physical therapist in patient treatment. Students develop knowledge and skills in the appropriate use of equipment and exercise associated with various physical therapy treatment modalities. In order to accomplish these tasks, the major utilizes a combination of basic science and nonscience course work coupled with health education courses specifically designed for the physical therapist assistant. The program culminates with a full semester of clinical experience.

The size of each entering class is limited so that optimal clinical experiences and practical application situations can be maintained. Students are admitted into the program only during the fall semester and must progress through the program in the prescribed manner. Clinical affiliations are maintained over a wide geographical area. Students may be required to make special housing and transportation arrangements during the clinical phase. In order to accommodate the clinical practicum, this major requires five semesters to satisfy graduation requirements.

For the Associate in Science degree in Physical Therapist Assistant, a minimum of 68 credits is required.

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

GENERAL EDUCATION: 21 credits
(9-12 of these 21 credits are included in the REQUIREMENTS FOR THE MAJOR)
(See description of General Education in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 59 credits
(This includes 9-12 credits of General Education courses; 3-6 credits of GWS courses; 3 credits of GN courses; 3-6 credits of GS courses.)

PRESCRIBED COURSES (41 credits)

BIOL 129 GN(4) [\[1\]\(#mnote01\)](#), BIOL 141 GN(3) [\[1\]\(#mnote01\)](#), BIOL 142(1) [\[1\]\(#mnote01\)](#), ENGL 015 GWS(3), P T 100(3) [\[1\]\(#mnote01\)](#), P T 384(4) [\[1\]\(#mnote01\)](#) (Sem: 1-2)
P T 150(2) [\[1\]\(#mnote01\)](#), P T 160(3) [\[1\]\(#mnote01\)](#), P T 250(4) [\[1\]\(#mnote01\)](#), P T 260(3) [\[1\]\(#mnote01\)](#), PSYCH 100 GS(3) (Sem: 3-4)
P T 395F(4)* [\[1\]\(#mnote01\)](#), P T 395G(4)* [\[1\]\(#mnote01\)](#) (Sem: 5)

ADDITIONAL COURSES (18 credits)

P T 270(3) [\[1\]\(#mnote01\)](#) or P T 270W(3) [\[1\]\(#mnote01\)](#) (Sem: 1-2)
KINES 013(1) or KINES 303 GHA(3) (Sem: 1-4)
P T 280(4) [\[1\]\(#mnote01\)](#) or P T 280W(4) [\[1\]\(#mnote01\)](#) (Sem: 3-4)

CAS 203(3), ENGL 202C GWS(3), or PSYCH 212 GS(3) (Sem: 4-5)
P T 395E(4) [\[1\]\(#mnote01\)](#)* or P T 395W(4) [\[1\]\(#mnote01\)](#)* (Sem: 5)
Select 1-3 credits from any P T course not listed above in prescribed or additional courses. (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.

*Courses that include clinical education experiences may require the student to travel long distances or obtain housing near the assigned clinic. Housing and transportation arrangements are the responsibility of the student.

Last Revised by the Department: Summer Session 2000

Blue Sheet Item #: 28-05-007

Review Date: 5/12/04

UCA Revision #1: 8/9/06

DS/MA/HN/SV

Science

Altoona College (2SCAL)

University College (2SCCC): Penn State Beaver, Penn State DuBois, Penn State Fayette, Penn State Greater Allegheny, Penn State New Kensington, Penn State Shenango

The Science major is designed primarily to provide for the basic educational needs of students who want to pursue professional programs in various scientific or medical fields. The program provides a fundamental group of science courses of value to those who seek positions in government or industry where such knowledge is necessary or desirable. The program offers sufficient flexibility to meet diverse academic and career goals.

Graduates of the of the program may qualify for admission to the baccalaureate degrees in science. Students planning on continuing in baccalaureate degrees are encouraged to work closely with their advisers.

For the Associate in Science degree in Science, a minimum of 67 credits is required.

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

GENERAL EDUCATION: 21 credits

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

REQUIREMENTS FOR THE MAJOR: 61 credits

(This includes 15 credits of General Education courses: 3 credits of GN courses; 3 credits of GQ courses; 3 credits of GWS courses; 3 credits of GH courses; 3 credits of GQ, GWS, GH, or GN courses.)

PRESCRIBED COURSES (14 credits)

BIOL 110 GN(4) [\[1\]\(#mnote01\)](#), CAS 100 GWS(3) [\[1\]\(#mnote01\)](#) [\(#mnote01\)](#), CHEM 110 GN(3) [\[1\]\(#mnote01\)](#), CHEM 111 GN(1) [\[1\]\(#mnote01\)](#) ENGL 015 GWS(3) [\[1\]\(#mnote01\)](#) [\(#mnote01\)](#) (Sem: 1-4)

ADDITIONAL COURSES (22-27 credits)

(Note: PHYS 250 and PHYS 251 and MATH 140 are recommended for students planning

to continue in baccalaureate programs of science.)

Select 4-6 credits from MATH 022 GQ(3), MATH 026 GQ(3), or MATH 040 GQ(5), or MATH 140 GQ(4) (Sem: 1-2)

Select 3-4 credits from STAT 200 GQ(4), STAT 220(3), STAT 250 GQ(3) (Sem: 1-4)

Select 3 credits from PHIL 002 GH(3), PHIL 103 GH(3), PHIL 103W GH(3), PHIL 110 GH(3), PHIL 118 GH(3), PHIL 221 GH(3) (Sem: 1-4)

Select 3 credits from CMPSC 100(3), MIS 103(3), CMPSC 101 GQ(3) (Sem: 1-4)

Select 6-8 credits from PHYS 150 GN(3) and PHYS 151 GN(3) or PHYS 250 GN(4) and PHYS 251 GN(4) (Sem: 2-4)

Select 3 credits from CHEM 112 GN(3), CHEM 202(3) (Sem: 2-4)

SUPPORTING COURSES AND RELATED AREAS (20-25 credits)

Select 20-25 credits from approved departmental list of BIOLOGICAL/MATH/PHYSICAL SCIENCES (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.

Last Revised by the Department: Fall Semester 2002

Blue Sheet Item #: 30-03-074

Review Date: 11/22/02

UCA Revision #1: 8/14/06

UC/AL/CL

Wildlife Technology

University College: Penn State DuBois

University Park, College of Agricultural Sciences (2 WLT)

PROFESSOR CHARLES P. SCHAADT, *in charge, Penn State DuBois*

The Wildlife Technology major helps prepare students in the techniques of wildlife management. Personnel trained in this field are needed to assist in the applied phases of natural resource management, wildlife biology, range management, and the care, maintenance, and propagation of animals. Graduates should be able to support professionals in wildlife biology, park managers, game refuge managers, and laboratory technicians in research.

For the Associate in Science degree in Wildlife Technology, a minimum of 66 credits is required.

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

GENERAL EDUCATION: 21 credits

(See description of General Education in this bulletin.)

REQUIREMENTS FOR THE MAJOR: 45 credits

PRESCRIBED COURSES (45 credits)

FORT 150(3), FORT 160(3), ENGL 202C(3), WILDL 101(3) **[1](#mnote01)**, WILDL 103(3) **[1](#mnote01)**, WILDL 106(4) (Sem: 1-2)

AG 113(1), FOR 242(3), KINES 013 GHA(1), WILDL 204(4), WILDL 207(3), WILDL 208(3) **[1](#mnote01)**, WILDL 209(4), WILDL 211(4), WILDL 213(3) (Sem: 3-4)

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

Last Revised by the Department: Summer Session 2007

Blue Sheet Item #: 35-05-002

Review Date: 3/6/07

AG

Minors

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

Gerontology Minor

Intercollege Program (GERON)

University College: Penn State Brandywine, Penn State DuBois, Penn State Shenango

PROFESSOR MELISSA A. HARDY, *in charge*

The intercollege minor in Gerontology is designed for students to gain an in-depth understanding of the aging process and old age. With the growth of the number of older people in the population, increased need has arisen for people with knowledge of the aging process in a variety of professional and occupational roles. In conjunction with the student's major, the minor prepares students for entry-level human service positions working with the elderly, or for graduate or professional school programs including communication disorders, counseling, health planning and administration, medicine, psychology, recreation and park management, and social work where knowledge of the aging process and problems of older people is relevant. Eighteen credits are required for the minor, including at least 6 credits at the 400 level. Advising is available through Pamela D. Evock, 211 South Henderson, University Park, PA 16802 (814-863-8000, pde1@psu.edu).

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

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

REQUIREMENTS FOR THE MINOR: 18 credits

PRESCRIBED COURSES (3 credits)

HD FS 249 GS(3) (Sem: 3-8)

ADDITIONAL COURSES (15 credits)

BIOL 155 GN(3) or BIOL 409(3) (Sem: 1-7)

SOC 435 (HD FS 434)(3) or HD FS 445 (PSYCH 416)(3) (Sem: 5-8)

Select 9 credits, at least 6 at the 400 level, from ADTED 460(3), ANTH 473(3), BB H 302 US(3), BB H 316(3), BB H 410(3), BB H 440 US;IL(3), CN ED 415(3), H P A 101(3), H P A 440 US;IL(3), H P A 442(3), HD FS 413(3), HD FS 445 (PSYCH 416)(3), HD FS 446(3), HD FS 447(3), KINES 481W(3), NURS 464(3), NUTR 451(3), NUTR 456(2), R P M 462(3), R SOC 422(3), R SOC 497(3), SOC 023 GS(3), SOC 174(3), SOC 423(3), SOC 435(3) (Sem: 3-8)

Note: Students may enroll in special topics courses (297, 497) that focus on aging or old age, with faculty permission. With faculty approval, students may also enroll for independent studies in their major department to write a senior thesis focused on an issue of aging.

Last Revised by the Department: Summer Session 1998

Blue Sheet Item #: 26-03-068

Review Date: 6/14/07

UCA Revision #1: 8/16/06

UE

Natural Resources Minor

University College, Penn State DuBois (NAT R)

PROFESSOR ROBERT E. LOEB, *Director of Academic Affairs, Penn State DuBois*

The natural resources minor can complement majors in the earth sciences and life sciences, and provides an introduction to field techniques and technical writing. Areas of specialized study can include, but are not limited to, environmental assessment, forest and wetland evaluation and management, and wildlife management. Professional opportunities include work in environmental monitoring, such as endangered species and wetland delineation, restoration of disturbed land, and management of forested lands and wildlife areas.

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 natural resources adviser:

Select 3 credits in 100-level forest technology (Sem: 1-2)

Select 3 credits in 100-level wildlife technology (Sem: 1-2)

Select 6 credits of 200-level forest technology or wildlife technology (Sem: 3-4)

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

Last Revised by the Department: Summer Session 2006

Blue Sheet Item #: 34-04-068

Review Date: 1/17/06

UC

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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