

YOUNGSTOWN
STATE
UNIVERSITY

**GRADUATE
BULLETIN
SUPPLEMENT
2005–2006**

EFFECTIVE AUGUST 2005

YOUNGSTOWN, OHIO

Youngstown State University reserves the right to change without notice any statement in this bulletin concerning, but not limited to, rules, policies, tuition, fees, curricula, and courses.

Youngstown State University is committed to a campus environment that values all individuals and groups and to nondiscrimination and equal opportunity for all persons without regard to sex, race, religion, color, age, national origin, sexual orientation, handicap/disability, or identification as a disabled and/or Vietnam Era veteran. The University is also committed to the principles of affirmative action and acts in accordance with state and federal laws.

Inquiries should be addressed to Youngstown State University's Director of Equal Opportunity and Diversity, who is responsible for coordinating the University's programs for compliance. Inquiries can be initiated in writing or by calling (330) 941-3370.

Youngstown State University
Graduate Bulletin Supplement

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EFFECTIVE AUGUST 2005

School of Graduate Studies and Research
Youngstown State University
One University Plaza
Youngstown, OH 44555

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For other graduate programs and general information, please refer to the 2004–2006 Graduate Bulletin

ACADEMIC CALENDAR

FALL 2005

DATE	DAY	EVENT
July 15	Fri	Last day to apply for graduate admission
Aug. 29	Mon	Fall term begins
Sept. 5	Mon	UNIVERSITY CLOSED—legal holiday (Labor Day)
Sept. 6	Tues	Last day to add courses
Sept. 16	Fri	Last day to apply for fall graduation
Nov. 3	Thurs	Last day to withdraw with a grade of "W"
Nov. 11	Fri	UNIVERSITY CLOSED—legal holiday (Veteran's Day)
Nov. 24	Thurs	UNIVERSITY CLOSED—legal holiday (Thanksgiving Day)
Nov. 25	Fri	UNIVERSITY CLOSED—legal holiday (Columbus Day observed)
Nov. 28	Mon	Thanksgiving academic break ends
Dec. 12	Mon	Final examinations begin
Dec. 12	Mon	Deadline to submit theses to School of Graduate Studies and Research
Dec. 18	Sun	Fall term ends
Dec. 18	Sun	Fall commencement

SPRING 2006

DATE	DAY	EVENT
Nov. 7	Mon	Registration by appointment of current, reactivated former, and accepted transfer students begins
Nov. 18	Fri	Registration by appointment ends
Nov. 21	Mon	Open registration for current, reactivated former, transfer, and transient students begins
Dec. 15	Thurs	Last day to apply for graduate admission
Dec. 23	Fri	UNIVERSITY CLOSED—legal holiday (Presidents' Day Observed)
Dec. 25	Mon	UNIVERSITY CLOSED—legal holiday (Christmas Day)
Jan. 2	Mon	UNIVERSITY CLOSED—legal holiday (New Year's Day)
Jan. 13	Fri	Open registration ends
Jan. 16	Mon	UNIVERSITY CLOSED—legal holiday (Martin Luther King Day)
Jan. 17	Tues	Spring term begins
Jan. 24	Tues	Last day to add courses
Feb. 3	Fri	Last day to apply for spring graduation
Mar. 13	Mon	Spring break begins
Mar. 19	Sun	Spring break ends
Mar. 24	Fri	Last Day to withdraw with a grade of "W"
May 8	Mon	Final examinations begin
May 14	Sun	Spring term ends
May 20	Sat	Spring commencement

ACADEMIC CALENDAR

SUMMER 2006

DATE	DAY	EVENT
Apr. 3	Mon	Registration by appointment of current, reactivated former, and accepted transfer students begins
Apr. 17	Mon	Last day to apply for graduate admission
Apr. 19	Wed	Registration by appointment ends
Apr. 20	Thurs	Open registration for current, reactivated former, transfer, and transient students begins
May 19	Fri	Open registration ends
May 22	Mon	Terms begin: full term, first six-week term, and first eight-week term
May 29	Mon	UNIVERSITY CLOSED—legal holiday (Memorial Day)
May 30	Tues	Last day to add courses for full term, first six-week term, and first eight-week term
June 9	Fri	Last day to apply for summer graduation
June 15	Thurs	Last day to withdraw with a grade of "W" for first six-week term
June 19	Mon	Second eight-week term begins
June 23	Fri	Last day to withdraw with a grade of "W" for first eight-week term
June 26	Mon	Last day to add courses for second eight-week term
July 2	Sun	First six-week term ends
July 3	Mon	Second six-week term begins
July 4	Tues	UNIVERSITY CLOSED—legal holiday (Independence Day)
July 10	Mon	Last day for withdrawing with a grade of "W" for full term
July 10	Mon	Last day to add courses for second six-week term
July 16	Sun	First eight-week term ends
July 21	Fri	Last day to withdraw with a grade of "W" for second eight-week term
July 27	Thurs	Last day to withdraw with a grade of "W" for second six-week term
Aug. 13	Sun	Terms end: full term, second six-week term, and second eight-week term
Last scheduled class		Final examinations
Aug 19	Sat	Summer commencement

STUDENT FEES AND CHARGES

TUITION

INSTRUCTIONAL FEE

Graduate students (1-11 credits).....	268	per credit
(12-16 credits).....	3216	per semester
(over 16 credits).....	268	per credit
Master of Public Health Program.....	427	per credit
Master of Fine Arts Program.....	412	per credit

GENERAL FEE

All students, 1-11 credits.....	46	per credit
All students, 12-16 credits.....	552	per semester
All students, over 16 credits.....	42	per credit

NONRESIDENT TUITION SURCHARGE

Regional Service Area

Graduate students (1-11 credits).....	120	per credit
(12-16 credits).....	1440	per semester
(over 16 credits).....	120	per credit

Outside Regional Service Area

Graduate Students (1-11 credits).....	231	per credit
(12-16 credits).....	2772	per semester
(over 16 credits).....	231	per credit

HOUSING CHARGES

Room and board (per academic year).....	6280	
to be paid as follows: \$200 for room reservation fee, \$3140 for fall semester, and \$2940 for spring semester		
Single room surcharge.....	750	per semester
Security deposit (paid first semester).....	100	
Voluntary Board Plan (students not in University housing)		
14-meal per week plan.....	875	per semester
10-meal per week plan.....	695	per semester
5-meal per week plan.....	400	per semester

SPECIAL PURPOSE FEES AND SERVICE CHARGES

Application fee, graduate.....	30	
Check replacement fee.....	25	
Child preschool laboratory fee.....	150	per semester
Credit by examination.....	20	per credit
Duplicate diploma fee.....	40	
Fingerprinting fee (web check).....	30	
Late graduation application (after third week of the semester).....	35	
ID replacement Fee.....	20	
Inoculation fee, hepatitis series.....	125	
Inoculation fee, measles, mumps, rubella.....	50	
Inoculation fee, meningitis.....	75	
Inoculation fee, tetanus.....	10	

FEES, SERVICE CHARGES, AND FINES

PAYMENT OF TUITION AND FEES

Tuition and fees for the semester are due on or before the date published in the *Schedule of Classes*. You may pay your bill in person at the payment windows on the second floor of Meshel Hall or by mail to the office of Student Accounts and University Receivables. You may pay by check (payable to Youngstown State University) or with Visa, MasterCard, or Discover Card. Several payment plans also are available that allow you to spread your payments over a longer period.

Graduation and transcripts will be held until all University bills are paid. Any balance owed must be sent to Student Accounts and University Receivables no later than the due date on the payment notice to avoid assessment of a late penalty fee.

Your enrollment at the University creates an implied contract between you and YSU. If you choose not to attend the University, you must officially withdraw from all courses by accessing the *complete withdrawal option* on the Student On-Line Advisement and Registration System (SO-LAR) or by completing a change of registration form at the Enrollment Information Counter in Meshel Hall. Nonattendance of class or notification to the instructor or department does not constitute an official withdrawal.

If you fail to withdraw by the deadline date stated in the *Schedule of Classes*, you must pay all charges in full. If no effort is made to pay the outstanding bill, collection measures will be implemented.

FEES

Tuition. The sum of the Graduate Instructional Fee and the General Fee is the tuition for a student.

Graduate Instructional Fee. This fee is assessed of all students each semester. The rate is per academic semester hour of credit of regis-

tration. This fee supplements the state subsidy and is revenue of the University's Educational General Fund.

General Fee. This fee is also assessed of all students each semester; the rate depends upon the number of credits for which the student is registering. This fee is for noninstructional services, such as Kilcawley Center, intercollegiate athletics, intramural sports, performing artists and lecture programs, Student Government, and Career Services.

Auditing Courses. Students may audit courses (i.e., register to take a course without receiving credit). The fees are the same as if the course was taken for credit.

Nonresident Tuition Surcharge. As stated, all students pay the instructional fee and the general fee. Those students who are not legal residents of Ohio also must pay a surcharge. Students who are legal residents of the regional service area pay a lesser surcharge than do students who are legal residents of other areas. The regional service area includes 23 counties in New York, Pennsylvania, and West Virginia.

Performance Music Fee. This fee is in addition to the regular instructional fee. It is assessed to students taking music lessons and applied on a per-credit basis.

Technology Fee. This fee is charged to all students and is based on the number of credits for which the student is registered. This fee provides increased Internet service, an open computer laboratory in Maag Library, increased computer laboratory reliability and technical assistance, and support for Network and Electronics Maintenance Services. This fee also provides partial general support for the cost of the maintenance of centralized mainframe computing capabilities, including, but not limited to, systems used for admissions, student registration, financial aid, and Students Accounts and Accounts Receivable operations.

Technology/Laboratory Materials Fee. This fee is designed to partially offset expenses associated with courses that make use of supplies, equipment, or personnel support beyond that associated with typical lecture courses.

Examples include chemical supplies, engineering equipment, computers and software, and lab monitors.

OTHER FEES

Application Fee. A nonrefundable application fee must accompany the initial application for admission to the School of Graduate Studies and Research.

Late Application for Graduation Fee. There is a fee charged for late application for graduation to anyone who applies after the third week of the semester.

Late Registration Fee. A fee is charged to a currently enrolled student who fails to register for the next term at the assigned time.

Parking Permit Fee. A permit to park in YSU parking facilities will be issued to students and employees of the University upon payment of the fee. The fee is for the academic semester and does not guarantee an available space in any particular lot. Some facilities are restricted (e.g. for students only, for faculty and staff only, or resident hall residents only). The current *Driving and Parking Regulations* pamphlet and parking lot map should be consulted. A daily fee is charged to anyone without a permit who wishes to park in facilities designated for cash business. Persons other than employees and students who are on campus for a short period of time to conduct business may park in one of the visitor's lots if space is available. The parking permit fee is refundable only if the student returns the permit access card and current validation sticker prior to the end of the 100% tuition refund period. If a student completely withdraws, the permit access card and current validation sticker must be returned within five days of either the withdrawal date or the last date of the 100% tuition refund period—whichever is earlier—in order to obtain a refund for this fee.

Proficiency Examination Fee. A fee is charged for an examination provided by an academic department to determine a student's proficiency for some reason other than assignment of academic credit.

Registration Reinstatement Fee. A non-

refundable fee is charged to any student whose current registration is cancelled for any reason (including delinquent payment), and who is subsequently permitted to reregister. This fee is in addition to any other applicable fees, fines, or penalties. Registration in the same course(s) cannot be guaranteed since the course(s) may have closed in the meanwhile.

SERVICE CHARGES

Check Replacement Fee. A nonrefundable fee is charged for each request to have a student refund check replaced.

Identification Card Replacement Charge. A charge is made for replacement of an ID.

Housing Charge. University housing is available for the academic year and summer terms. The residence contract includes room and a flexible meal plan. A security deposit is required. Payment and refunds are as scheduled in the housing contract. Meal tickets are also available for students who are not residents of University-owned housing.

Returned Check or Credit Card Charge. A charge is made to anyone whose check or charge card is returned unpaid by the bank. Any late payment fee applicable is also assessed. Failure to pay billing of return check and/or charge within six days and/or a second check/charge return will result in the University's refusal to accept this type of payment at any of its collection points and may subject the student to financial suspension for the term.

Student Locker Charge. A limited number of lockers are available in various buildings for the convenience of commuting students. Payment and assignments are made at the Kilcawley Information Center.

Thesis Binding Charge. A charge is made for each copy of a thesis bound by the Maag Library.

Transcript of Credits Charge. While no charge is made for each transcript issued, transcripts will not be issued for students or alumni with outstanding debts owed the University. Only a student may order a transcript; however,

students are cautioned that most graduate and professional schools as well as many employers accept transcripts only if sent directly by the University.

FINES

Parking Violation Fine. Parking without a permit, parking in such a manner as to impede regular traffic flow, occupancy of more than one identified space (assuming lines are not obscured), and other offenses as identified in the *Driving and Parking Regulations* will result in a citation issued to the student responsible for the vehicle (e.g., student driving parents' car). Payment of a fine removes the citation. Vehicles may be towed in certain cases. See the regulations for detailed information.

Library Fines. Fines are assessed for failure to return books on time as stipulated or for the unauthorized removal of a reserved book. Willful damage or defacement of library materials or other property is a violation of state law and is punished as such.

REDUCTION/REFUND OF FEE CHARGES UPON WITHDRAWAL

To withdraw from a single course or all courses, a student must access the *change of registration option* or the *complete withdrawal option* on the Student On-line Advisement and Registration System (SOLAR) or complete a change of registration form at the Enrollment Information Counter in Meshel Hall. Nonattendance of class or notification to the instructor or department does not constitute official withdrawal. Please see the Official Tuition Refund Schedule in the *Schedule of Classes* for further information.

APPLICATION FOR INVOLUNTARY WITHDRAWAL

If a student withdraws for reasons beyond his/her control (e.g., illness, military service, job transfer, or shift change imposed by the employer that creates a direct conflict with the class schedule), the fee charges may be reduced in direct proportion to the number of weeks in attendance. An Application for Involuntary Withdrawal can only be processed for courses in which the student has already received a

grade of "W" (withdrawn). The aforementioned applications will only be considered for semesters falling within the immediately preceding year (three semesters). Appeals pertaining to semesters beyond this one-year time limit will not be accepted. All Applications for Involuntary Withdrawal must be documented and are processed only by mail on forms provided by the Office of Students Accounts and Accounts Receivable. Address such correspondence to the Fees & Charges Appeals Board, c/o Office of Students Accounts and Accounts Receivable Youngstown State University, One University Plaza, Youngstown, OH 44555. The decision of the Board is final and not subject to reappeal.

GRADUATE POLICIES

TEST INFORMATION

(Addition to Test Information section on page 26 in Graduate Bulletin 2004–2006 is indicated in boldface type) In certain master's programs, test results must be submitted as part of the admission procedure. The Graduate Record Examination (GRE) and Graduate Management Admission Test (GMAT) are available at Sylvan Learning Center locations. Test results for the GRE and GMAT cannot be more than five years old by the beginning of the term you wish to enter. Arrangements for taking the Miller Analogies Test on campus may be made directly with the Testing Office in Room 242, Meshel Hall.

INTERNATIONAL STUDENT ADMISSION

(Addition to item 2 of the International Student Admission section on page 29 in Graduate Bulletin 2004–2006 is indicated in boldface type)

In addition to the regular admission requirements, the following must also be submitted:

2) A minimum score of 550 on the paper-based or 213 on the computer-based Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service (ETS) by graduates of foreign universities who are non-native English speakers. (Scores over two years old by the beginning of the term you wish to enter are not acceptable.) Proficiency may also be demonstrated by a minimum score of 80 on the Michigan English Language Battery Test (MELAB) administered by the English Language Institute, Ann Arbor, Michigan, or a Letter of Certification from the Youngstown State University English Language Institute stating that the applicant has completed the program of study and is proficient in English at a level appropriate to pursue a graduate degree and present an English language thesis if one is necessary as a degree requirement.

ACADEMIC STANDARDS

(Addition to Academic Standards section on page 31 in Graduate Bulletin 2004–2006) For degree programs requiring up to 39 s.h. for completion, a student may count no more than 6 s.h. of coursework with a grade of C toward the minimum graduation hour requirements. For students in programs requiring 40 s.h. or more for completion, no more than 9 s.h. of coursework with a grade of C may count toward the minimum graduation hour requirement.

ACADEMIC SUSPENSION

(Additions to Academic Suspension section on page 32 in Graduate Bulletin 2004–2006 are indicated in boldface type) A graduate student who is not maintaining satisfactory academic progress as determined by the graduate academic Program Director or department Chairperson and Graduate Dean may be excluded from registration and dropped from the program in which he or she is enrolled. Such action constitutes academic dismissal from the School of Graduate Studies and Research.

Academic suspension for a student with regular admission is automatic if:

- 1) the cumulative grade point average is below the minimum after two semesters during which the student registered "not in good standing;" or
- 2) the student fails to pass a comprehensive exam after three tries.

A provisionally admitted graduate student must maintain a minimum grade-point average of 3.0 on a 4.0 scale. A provisional student whose GPA falls below a 3.0 will immediately be dismissed.

Any student in non-degree status whose cumulative grade point average drops below the minimum (3.0) will be prohibited from enrolling in further graduate coursework.

Registration for any session or continuous registration during a full summer counts as one semester for these purposes.

A graduate program may utilize additional academic standards to determine satisfactory academic progress and/or standards for academic suspension; however, such standards must be distributed in writing to all graduate students in the program and must be filed and approved by the Dean of Graduate Studies and Research.

GRADUATE PROGRAMS

MASTER OF FINE ARTS

PROGRAM DIRECTOR: Phillip Brady
238 DeBartolo Hall
(330) 941-1952

(Change in language in Admission Requirements section on page 75 in Graduate Bulletin 2004-2006) The following sentence is deleted and no longer applies:

~~Applicants to the MFA program must gain admission to a consortial graduate degree program in English.~~

MASTER OF SCIENCE — CHEMISTRY

PROGRAM DIRECTOR: Tim Wagner, Fall 2005
Peter Norris, Spring 2006
5022 Ward Beecher Hall
(330) 941-7114

(Addition to Admission Requirement section on page 94 in Graduate Bulletin 2004-2006) All applicants for an assistantship in the Department of Chemistry must submit a score on the general test of the Graduate Record Examination.

MASTER OF SCIENCE IN EDUCATION — COUNSELING

3306 Beehly College of Education
(330) 941-3256

(Change in Admission Requirements) Since the counseling admissions standards exceed the minimum standards set by the School of Graduate Studies and Research, all applicants must obtain a copy of the admissions policies from the Department of Counseling before formally applying for admission. Students should be aware that the policies have been revised as of May 2005 and now include deadlines for application for admission.

OPTION A: SCHOOL COUNSELING PROGRAM CURRICULUM

(Change in Degree Requirement section on page 112 in Graduate Bulletin 2004-2006)

Total hours for program has increased from 51 to 52 semester hours.

OPTION E: CLASSROOM GUIDANCE PROGRAM CURRICULUM

(Change in Degree Requirement section on page 112 in Graduate Bulletin 2004-2006)

Total hours for program has increased from 33 to 34 semester hours.

**MASTER OF SCIENCE IN EDUCATION
TEACHER EDUCATION**

PROGRAM DIRECTOR: Marianne K. Dove, Chair of the Department
2406 Beeghly Hall
(330) 941-3251

SPECIAL EDUCATION PROGRAM

(Addition to Degree Requirements section on page 127–130 in Graduate Bulletin 2004–2006)

INTERVENTION SPECIALIST LICENSURE OPTION

The Intervention Specialist Licensure option is designed to permit those candidates holding an earned baccalaureate or advanced degree in an area of education and licensure or certification to complete a master's degree and obtain teaching licensure for students (K-12) with disabilities (Intervention Specialist in Mild/Moderate Disabilities or Moderate/Intensive Disabilities). A total of 32 s.h. is required.

A candidate for the program must meet all the requirements for admission to the Graduate School as outlined in the YSU Graduate Bulletin under Teacher Education Programs Admission Requirements. Prerequisites include PSYCH 3709 or PSYCH 6903 or the equivalent and SPED 2631, 2630, 5802, or the equivalent.

Candidates must hold an earned baccalaureate or advanced degree in an area of education and licensure or certification such as Early Childhood, Middle Childhood, or Adolescent/Young Adults. Students will be required to pass the appropriate Praxis II exams before completion of the practicum or review of student teaching equivalency.

Successful completion of a comprehensive examination is required for graduation. Individuals holding teaching certification must fulfill the Ohio Reading requirement (12 s.h.)

- | | | | |
|--|------|---|--------|
| I. <u>Foundations of Education</u> (3 s.h.) | | | |
| FOUND | 6904 | Introduction Educational Research | 3 s.h. |
| II. <u>Core Courses</u> (18 s.h.) | | | |
| SPED | 6981 | Seminar in Special Education | 3 s.h. |
| SPED | 6982 | Educational Assessment in Gifted and Special Education | 3 s.h. |
| SPED | 6983 | Characteristics and Needs of Children and Youth with Mild/Moderate and/or Moderate/Intensive Disabilities | 3 s.h. |
| SPED | 6984 | Major Concepts and Program Design for Students in Special Education | 3 s.h. |
| SPED | 6985 | Alternative Delivery Services for Children in Special Education | 3 s.h. |
| SPED | 6986 | Severe Behavior Disorders | 3 s.h. |
| III. <u>Cognate</u> (11 s.h.) | | | |
| SPED | 5835 | Classroom Management for Exceptional Children and Youth | 4 s.h. |
| SPED | 5853 | Diagnosis and Intervention in Mathematics for Special Education | 3 s.h. |
| SPED | 5868 | Mild/Moderate Disabilities Practicum OR | 4 s.h. |
| SPED | 5834 | Educational Strategies for Children and Youth with Moderate/Intensive Disabilities OR | 4 s.h. |
| | | Student Teaching Equivalency | |

Total 32 s.h.

Student Teaching Equivalency

Candidates currently teaching on a temporary certification or license will be required to compile a professional portfolio. A list of portfolio requirements may be obtained from the Department of Teacher Education. Candidates who obtain equivalency are to choose 4 semester hours of elective coursework to complete the 32 semester hours required for the master's degree.

MASTER OF SCIENCE IN NURSING

PROGRAM DIRECTOR: Sharon P. Shipton
2148 Cushwa Hall
(330) 941-1792

OPTION COORDINATOR
CLINICAL NURSE SPECIALIST-
SCHOOL NURSE: Nancy W. Mosca
3062 Cushwa Hall
(330) 941-1793

OPTION COORDINATOR
NURSE ANESTHETIST: Patricia Hoyson
3087 Cushwa Hall
(330) 941-3087

(Addition to Accreditation section on page 140 in Graduate Bulletin 2004–2006) The Master of Science in Nursing Program is accredited by the National League for Nursing Accrediting Commission, Inc. (NLNAC). For additional information regarding accreditation, contact:

National League for Nursing Accrediting Commission (NLNAC)
61 Broadway–33rd Floor
New York, NY 10006
(800) 669-1656, ext. 153
FAX (212) 812-0390
Web site: www.nlnac.org

MASTER OF SOCIAL WORK

PROGRAM DIRECTOR: Dennis Morawski
3033 Cushwa Hall
(330) 941-1690

Social Work Administration concentration has been eliminated.

HEALTH CARE MANAGEMENT

PROGRAM DIRECTOR: Carol Mikanowicz
1086 Cushwa Hall
(330) 941-3658

(Change in Certificate Requirements section on page 153 in Graduate Bulletin 2004–2006)

CERTIFICATE REQUIREMENTS

Students must complete six semester hours from the following:

ECON	6900	Statistical Problems	3 s.h.
ECON	6901	Basic Economic Analysis	3 s.h.
FIN	6900	Financial Accounting and Finance for Decision Making	4 s.h.
MGT	6900	Foundations of Management	2 s.h.
MGT	6917	Information Systems for Management	2 s.h.
MKTG	6900	Foundations of Marketing	2 s.h.

Students must complete twelve semester hours from the following:

MGT	6961	Organizational Behavior	3 s.h.
CHHS	6959	Foundation and Planning	3 s.h.
CHHS	6960	Implementation and Evaluation	3 s.h.
CHHS	6918	Program Planning and Evaluation	2 s.h.
CHHS	6922	Planning and Fiscal Management	4 s.h.

No more than ONE of the following three courses may be chosen

CHHS	6949	Community Health Practices	3 s.h.
CHHS	6953	Health Behavior	3 s.h.
CHHS	6958	Health Services Issues	3 s.h.

Total 18 s.h.

COURSES

ACCOUNTING AND FINANCE

Peter Woodlock, Chair of the Department
607 Williamson Hall
(330) 941-1873

FINANCE

6900. *Financial Accounting and Finance for Decision Making*. A survey of the fundamental concepts of financial accounting employed by general managers. Additionally, a survey of the concepts, principles, and practices of financial management used by general managers and the links between the two types of information. Prereq: Permit required. (Change in prerequisite) 4 s.h.

AMERICAN STUDIES

Stephanic Tingley, Program Director
245 DeBartolo Hall
(330) 941-2482

6982. *Special Topics*. Specialized topics selected by the staff. May be repeated once with a different topic. Prereq: Permission of the American Studies Program Coordinator and instructor. (New course) 3 s.h.

6985. *Independent Study*. Individual study in American Studies or a related discipline under the supervision of a faculty member. May be repeated once. Prereq: Permission of the American Studies Program Coordinator and instructor. (New course) 3 s.h.

ART

Susan Russo, Chair of the Department
4001 Bliss Hall
(330) 941-3627

5850. *Topics in Painting and Drawing*. (New swing course) 3 s.h.

5860. *Topics in Design*. (New swing course) 3 s.h.

5873. *Topics in Advanced Photography*. (New swing course) 3 s.h.

6940. *Studio Problems in Printmaking*. Individual research into monoprinting, intaglio etching, relief printing, silkscreen, lithography and monotype. May be repeated for a maximum of 6 semester hours. Prereq: Portfolio presentation and permission of instructor. (New course) 3 s.h.

6941. *Studio Problems in Printmaking*. Continuation of 6940. May be repeated for a maximum of 6 semester hours. Prereq: Art 6940. (New course) 1-3 s.h.

6942. *Studio Problems in Printmaking*. Continuation of 6941. May be repeated for a maximum of 6 semester hours. Prereq: Art 6941. (New course) 1-3 s.h.

BIOLOGICAL SCIENCES

Robert Leipheimer, Chair of the Department
4037 Ward Beecher Hall
(330) 941-3601

6940. *Microbial Physiology*. This course will present advanced topics in biomolecule synthesis, molecular biology, bacterial genetics, gene expression, energy production photosynthesis, bacteriophages and microbial stress response. An integrative laboratory project emphasizing some of these topics will be included. Three hours lecture and three hours lab. Prereq: Graduate standing. (New course) 4 s.h.

6948. *Biology of Fungi*. Examination of fungal and fungal-like organisms with emphasis placed upon their taxonomy, phylogenetic relationships, structure, function, physiology, genetics, and ecology. Their role in agriculture, medicine, and scientific research is explored as well. Three hours lecture and three hours laboratory. Prereq: BIOL 3702, and graduate standing. (New course) 4 s.h.

6949. *Cellular and Molecular Mycology*. Specific cellular and molecular processes in fungal organisms will be examined in great detail. Topic areas include morphogenesis, dimorphism, signal transduction, gene expression and regulation, cellular differentiation, nutritional physiology, primary and secondary metabolism, and host-parasite interactions. Prereq: BIOL 3702 or equivalent, and graduate standing. (New course) 3 s.h.

6966. *Protein Analysis*. Students will gain experience in the analysis of proteins. Protein structure and function relationships are discussed in the context of their relevance in analytical techniques. Methods presented and used in class include: protein quantification, two-dimensional gel electrophoresis, liquid chromatography, gel image analysis, and amino acid analysis. Two hours lecture and four hours laboratory. Prereq: BIOL 5836 or equivalent and graduate standing. (New course) 4 s.h.

6979. *Teaching Practicum: 1545 Anatomy and Physiology*. A course dealing with the principles of pedagogy for Biology 1545, *Allied Health Anatomy and Physiology*. This course addresses classroom and laboratory topics in human anatomy and physiology, with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for *Allied Health Anatomy and Physiology*. May be repeated. (Change in course title and description) 1 s.h.

6981. *Teaching Practicum: 1551 Anatomy and Physiology*. A course dealing with the principles of pedagogy for Biology 1551, *Anatomy and Physiology I*. This course addresses classroom and laboratory topics in human anatomy and physiology, with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for *Anatomy and Physiology I*. May be repeated. (New course) 1 s.h.

6982. *Teaching Practicum: 1552 Anatomy and Physiology*. A course dealing with the principles of pedagogy for Biology 1552, *Anatomy and Physiology 2*. This course addresses classroom and laboratory topics in human anatomy and physiology, with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for *Anatomy and Physiology 2*. May be repeated. (New course) 1 s.h.

6989. *Graduate Research Experience*. Independent study for graduate students wishing to learn specific biological research techniques. Applicable only to Biology graduate students following the Non-thesis or Biology Education Options. May be repeated for up to a total of 3 s.h. Prereq: Permission of instructor or department chair. (New course) 1-3 s.h.

CIVIL ENGINEERING

Scott C. Martin, Option Coordinator
2445 Moser Hall
(330) 941-3026

5849. *Structural Analysis 2.* (New swing course) 3 s.h.
6990. *Thesis.* Hours arranged. May be repeated. (Change in course description and hours) 1 - 9 s.h.

COUNSELING

3305 Beechly College of Education
(330) 941-3257

5898. *Orientation and Ethical Issues in Community Counseling.* (Change in course title and description) 3 s.h.
6900. *Counseling Methods and Practice.* Methods and practices of professional counseling relative to relationship, goals, process, and documentation. Relevant ethical guidelines are stressed. Includes experiential skill training. For Counseling majors or by permission of Department of Counseling. Prerequisite or concurrently: COUNS 6962. (Change in prerequisite) 3 s.h.
6961. *Orientation and Ethical Issues in School Counseling.* This course provides students with an introduction to the field of professional counseling, and the foundations of school counseling. The course addresses the following topics: history, philosophy, cultural dynamics, advocacy, consultation, technology applications, classroom management issues, and trends in professional and school counseling. The counseling profession's ethical standards are also addressed with an emphasis on the ACA and ASCA code of ethics, and counselor ethical decision making processes. (Change in course title, description, and hours) 3 s.h.
6973. *Group Counseling Theory and Practice.* Theories pertaining to group dynamics, process, interaction, consultation, and counselor intervention. For Counseling majors or by permission of Department of Counseling. Prerequisite or concurrently: COUNS 6962. (Change in course prerequisite) 2 s.h.
7001. *Counseling Practicum I.* Supervised individual counseling practice with volunteer clients. Focus upon process, clarification, and resolution of counselee goals and counselor self-awareness/evaluation. Students are required to attend a scheduled orientation in the Community Counseling Clinic prior to the first class. Prereq: COUNS 6900, 6962, 6973, 6980 or 7013A, and 5898 or 6961. (Change in course description and prerequisite) 3 s.h.
7009. *School Counseling Internship.* Supervised internship in selected school counseling and human services programs. May be repeated to a maximum of 10 semester hours. For Counseling majors or by permission of Department of Counseling. Prereq: COUNS 7002, 7014D and permission of instructor. (Change in course prerequisite) 4-8 s.h.
7021. *Foundations and Functions of Student Affairs.* The primary purpose of this course is to provide graduate students with a comprehensive introduction to the field of student affairs and its role within the context of American higher education. (Change in course title and description) 3 s.h.

7023. *Characteristics and Development of College Students*. The purpose of this course is to provide the graduate student with an introduction to the field of college student development and its role within the context of American higher education. Students will be exposed to a range of human development theories and student characteristics that offer insight into the processes of student learning, growth, and development during the college years. (Change in course title and description) 3 s.h.

7026. *Legal and Ethical Issues in Higher Education*. This course is designed to provide an introduction to the legal and ethical issues which affect higher education and student affairs practice. The primary goal of this course is to provide an exploration and understanding of legal issues pertaining to the various constituents of colleges and universities. (Change in course title and description) 3 s.h.

7029. *Professional Issues in Student Affairs*. The purpose of this seminar course is to expose graduate students to contemporary issues shaping student affairs practice. Topics will vary but will focus on the development of knowledge and skills in emerging areas relevant to professionals in student affairs. (New course) 3 s.h.

7031. *Clinical Psychopathology and Treatment*. Counseling theories of abnormal behavior and mental disorders throughout the total life cycle. Included will be specific personality theories and examinations of empirically-derived treatments. Prereq. COUNS 6962. (Change in course prerequisite) 3 s.h.

7042. *Organizational Theory and the College Environment*. The purpose of this course is to provide graduate students with a comprehensive examination of the complex study of organizational theory and campus environments. Students will be challenged through a variety of instructional approaches to evaluate their assumptions about organizations, assess the impact of campus environments on student learning, and reframe their understanding of student affairs organizations. (New course) 3 s.h.

7044. *Leadership in Student Affairs Organizations*. This course will provide graduate students with an opportunity to read, reflect, and integrate important theories and concepts related to leadership. Students will be challenged to reflect on their core values and principles, to see leadership through a new paradigm, and to formulate their own philosophy of leadership. (New course) 3 s.h.

7046. *Assessment in Student Affairs Practice*. The purpose of this course is to assist graduate students in learning to effectively conduct assessment and program evaluation. In particular, the course is intended to promote the understanding of assessment in enhancing practice. By learning the usefulness and appropriateness of various assessment methodologies, the emerging practitioner will learn to provide evidence for effective practice. (New course) 3 s.h.

CRIMINAL JUSTICE

Tammy King, Chair of the Department
2087 Cushwa Hall
(330) 941-3279

5814. *Forensic Science and the Criminal Justice System*. (New swing course) 3 s.h.

EDUCATIONAL ADMINISTRATION

Robert J. Beebe, Chair of the Department
4101 Beeghly College of Education
(330) 941-1437

6993. *Special Topics in Educational Administration*. Admission to Master's degree program in Educational Administration (New course) 1 - 4 s.h.

ELECTRICAL AND COMPUTER ENGINEERING

Jalal Jalali, Chair of the Department
2046 Moser Hall
(330) 941-3012

5830. *Digital Signal Processing*. (New swing course) 3 s.h.
5835. *Computer Architecture with VHDL*. (New swing course) 4 s.h.

6901. *Control Systems I*. Fundamental concepts in linear system theory; matrix algebra, linear vector spaces, linear operators. Input-output and state-space models for continuous-time systems; canonical forms. Solutions of state space equations. Characteristics of linear systems: stability; controllability and observability. State variable feedback, introduction to state estimation. (Change in course description) 3 s.h.

6933. *Digital Systems: VHDL Design*. Local minimization, design of combinational networks; design of synchronous and asynchronous sequential machines; design of digital systems using VHD, modeling combinational and sequential networks, compilation, simulation, and synthesis of VHDL codes. (New course) 3 s.h.

6934. *Digital Systems: Computer Arithmetic*. Number system representations: standard and unconventional formats. Design of two-operand and multi-operand fast adders. High-speed multiplication and division algorithms. Floating-point numbers, algorithms, and error control. Hardware algorithms for function evaluation. Prereq: ECEGR 6933. (New course) 3 s.h.

FOREIGN LANGUAGES AND LITERATURE

John Sarkissian, Chair of the Department
501 DeBartolo Hall
(330) 941-3460

6921. *Foreign Language for Reading I*. Intensive study of grammar and vocabulary in a foreign language with the goal of conducting scholarly research using materials available in that language. By the end of the course, students will be able to read some materials in the target language for content. Prereq: Graduate standing and permission of chair of department in which student is enrolled. (New course) 3 s.h.

6922. *Foreign Language for Reading 2*. Continuation of FNLG 6921 with emphasis on translation. By the end of the course students will be able accurately to translate materials in the target language. Prereq: FNLG 6921 and permission of chair in department in which student is enrolled. (New course) 3 s.h.

GEOGRAPHY

Craig S. Campbell, Chair of the Department
124 Phelps Building
(330) 941-3317

5805. <i>Remote Sensing I</i> . (New swing course)	3 s.h.
5806. <i>Remote Sensing II</i> . (New swing course)	3 s.h.
5810. <i>Geographic Information Science I</i> . (New swing course)	3 s.h.
5811. <i>Geographic Information Science II</i> . (New swing course)	3 s.h.
5820. <i>Special Problems in Geography</i> . (New swing course)	1-3 s.h.

GEOLOGICAL AND ENVIRONMENTAL SCIENCES

Alan M. Jacobs, Chair of the Department
2120 Moser Hall
(330) 941-3612

ENVIRONMENTAL STUDIES

5800. <i>Environmental Impact Assessment</i> . (New swing course)	3 s.h.
5810. <i>Environmental Safety</i> . (New swing course)	1 s.h.
5860. <i>Environmental Regulations</i> . (New swing course)	3 s.h.

6920. *Environmental Compliance*. Regulatory compliance concerning operations of environmental and health and safety departments. RCRA permitting (NPDES and air emissions), landfilling, Right-To-Know, waste generation, storage, shipping (manifests and placarding), disposal of wastes, MSDS, OSHA regulations, safe work practices, hiring consultants (technical and legal), writing requests for proposals, and documenting and report writing. Prereq: ENST 5860, 6900, or equivalent. (Change in prerequisite) 3 s.h.

INDUSTRIAL AND SYSTEMS ENGINEERING

Hojjat Mehri, Option Coordinator
2500 Moser Hall
(330) 941-3023

5881. <i>Basic Principles of Manufacturing Competitiveness</i> . (New swing course)	3 s.h.
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6905. *Applied Statistics for Design, Quality and Productivity*. Review of probability and statistics, uncertainty and decision making, statistical inference, analyzing sources of variation. Risk and reliability, risk assessment, robust and quality design, regression analysis, and analysis of variance. Design of experiments, single factor and multifactor experiments, design of experiments for product characteristics, process characteristics, and process optimization. General statistical process control, special charts and sampling techniques for control, monitoring, and auditing quality. Economic issues in process/quality control. Prereq: ISEG 3710 or equivalent. (New course) 3 s.h.

6935. *Decision Analysis for Engineering*. Review of probability and statistics, subjective probability, probability models, using data, Monte Carlo simulation, and value of information. Introduction to decision analysis, elements of decision problems, structuring decisions, making choices,

and creativity and decision making. Risk attitudes, utility axioms, paradoxes, and conflicting objectives. Prereq: ISEGR 3710 or equivalent, or consent of instructor. (New course) 3 s.h.

MANAGEMENT

Rammohan R. Kasuganti, Chair of the Department
646 Williamson Hall
(330) 941-3070

6900. *The Foundation of Management*. A study of the fundamental concepts and functions of management. Each functional area is analyzed and the interrelationship of the functions emphasized. Topics such as organization design, authority-power relationships, control systems, group behavior, participative management, and span of control will be covered. Prereq: Permit required. (Change in prerequisite) 2 s.h.

6965. *Strategic Management and Leadership*. The correlation of theory and practice in the development of business policy. Emphasis on the problems of executive management, decision making, and administrative action. Prereq: 3.0 MBA GPA; ACCT 6902, FIN 6921, MKTG 6942, MGT 6921, MGT 6961, BUS 6920 (BUS 6920 may be taken concurrently with MGT 6965). Must be taken concurrently with MGT 6967. (Change in prerequisite) 3 s.h.

MARKETING

James Kohut, Chair of the Department
534 Williamson hall
(330) 941-3149

6900. *Foundations of Marketing*. A basic examination of marketing as a business process by which products are matched with markets and through which transfers of ownership are affected. Prereq: Permit required. (Change in prerequisite) 2 s.h.

NURSING

Patricia Hoyson, Chair of the Department
2045 Cushwa Hall
(330) 941-3292

7017. *School Nurse Role Practicum*. Application of concepts, theories, and research from NURSG 7016 in pre-K and K-12 school settings to be taken concurrently with NURSG 7016. Prereq: NURSG 7014, 7015 or enrollment in school nurse licensure program. (Change in course hours) 1-5 s.h.

TEACHER EDUCATION

Marianne Dove, Chair of the Department
2406 Beeghly Hall
(330) 941-3251

SPECIAL EDUCATION PROGRAM

6981. *Seminar in Special Education*. This course details current issues in the field of special education

involving research, pedagogy, methodologies, and application. Emphasis is on the intervention and remediation of receptive/expressive language dysfunctions as well as other issues related to children and youth with disabilities. (Change in course title and description) 3 s.h.

6982. *Educational Assessment in Gifted and Special Education*. The course focuses on the educational assessment process as it applies to students with exceptionalities. Topics include a review of state and federal regulations, data collection techniques including both formal and informal methods, appropriate test preparation and interpretations, and design of identification and placement procedures. (Change in course description) 3 s.h.

6983. *Characteristics and Needs of Children and Youth with Mild/Moderate and/or Moderate/Intensive Disabilities*. Description, classification, development, and academic and social adjustment of children and youth with disabilities ranging from mild to intense, including ADHD and autism. Relates the contributions of diverse disciplines to theory and practices. Developing objectives, planning, and implementing curriculum based on individual student needs addressed in Individual Education Plans. Field experience required. (New course) 3 s.h.

6984. *Major Concepts and Program Design for Students in Special Education*. Major concepts, program development, and program evaluation involving youth with special needs are parts of this course. Programs related to the transition process will be studied and reviewed. (Change in course description and hours) 3 s.h.

6985. *Alternative Delivery Services for Children in Special Education*. Designing and organizing programs for children receiving special education services in inclusive as well as other settings. Collaboration and consultation strategies for both special education and general education teachers are emphasized. (Change in course description) 3 s.h.

6986. *Severe Behavior Disorders*. A comprehensive analysis of programs and the description of the delivery of services to a wide range of seriously emotionally disturbed children and youth. (Change in course description) 3 s.h.

6999. *Field Experiences Autism/Related Disorders*. Supervised field experiences incorporating theory, planning and implementation of services for children with autism spectrum disorders. Weekly seminars connect theory to practice. Prereq: SPED 6996 and SPED 6998 and PSYCH 6990 or 6960. (Correction of course hours) 6 s.h.