

Courses Offered:

HUS 11853 Social Welfare as a Social Institution An examination of social welfare as a fundamental social reality, not as a collection of programs and services. Other critical institutions such as family, religion, politics, and the economy are examined, and their relationship to social welfare explored. This course is an introductory course for all students to increase their knowledge about institutions and their relationship to our society. 3 hrs.

HUS 20053 Values & Explorations in Human Services A broad overview of the profession of Human Services. The course examines the historical developments of human services and the knowledge, values, and skills required to function in the role of a human services worker. The course also allows the students to evaluate their strengths as a potential human services professional. An introduction to field experience is included in the curriculum. Prerequisites: SOC 10153 Social Thought or SOC 10453 Introduction to Sociology or PSY 12053 Principles of Psychology. 3 hrs.

HUS 20153 Issues in Child Welfare Emphasis on the critical thinking skills necessary to understand complex issues surrounding child welfare and the continuous preparation for meaningful adjustments to the numerous crises encountered in the welfare of children. Prerequisites: SOC 10453 Introduction to Sociology and HUS 11853 Social Welfare as a Social Institution. Alternate Years. 3 hrs.

HUS 21253 The Family Explores the historical and theoretical perspectives of the family. Dynamics of family relationships, communication styles and interactions are addressed as well as issues relating to: dating, love and friendship, human sexuality, relationships, life styles, divorce, child rearing and other related issues. Prerequisite: PSY 12053 Principles of Psychology or SOC 10153 Social Thought or SOC 10453 Introduction to Sociology. 3 hrs.

HUS 30053 Human Services and the Community Designed to help in understanding the dynamics of strengthening communities through action. Gain skills and knowledge to promote and influence community change to overcome or prevent adversity such as domestic violence, teen-age pregnancy, inequality or a problematic services delivery system. Topics in applied social research and policy are introduced. Prerequisites: HUS 20053 Values

and Explorations in Human Services, SOC 10453 Introduction to Sociology, PSY 12053 Principles of Psychology. 3 hrs.

HUS 30153 Issues in Gerontology Examines aging from a broad perspective. A study of the causes and consequences of aging and theoretical and practical examination of its sociological and economic impacts. Prerequisites: SOC 10153 Social Thought or SOC 10453 Introduction to Sociology, and PSY 12053 Principles of Psychology. Alternate Years. 3 hrs.

HUS 30953 Death and Dying Confronting the subject of death from new and alternative perspectives. Explore attitudes of death and the dying process, rituals, theories and the social organization of death in many societies. To gain knowledge in understanding feelings and attitudes toward death. Prerequisites: SOC 10453 Introduction to Sociology and PSY 12053 Principles of Psychology. 3 hrs.

HUS 32553 Field Research An opportunity to experience the inner-city of Chicago. Field assignments are given for "hands on" experiences to identify the conditions and needs for special populations within large, urban areas. Group dynamics are also explored. The history, services and other urban study issues of Chicago are studied. Prerequisite: Instructor approval. 3 hrs.

HUS 40553 Skills and Techniques in Human Services Identifies a set of basic skills for different settings in which helpers work. Describes a wide array of human services intervention strategies, with particular focus on how to interview and/or counsel clients and to make students aware of both the technology and the art of human services practice. Prerequisites: HUS 20053 Values and Explorations in Human Services, HUS 30053 Human Services and the Community, and PSY 32353 Developmental Psychology. 3 hrs.

HUS 4105_/4205_ Internship in Human Services Goal and objective setting, journal writing, site meeting with the on-site supervisor and academic supervisor, on-going monitoring and final formal evaluation are some of the practices and expectations of the student. A minimum of eight hours of internship experience is required for Human Service majors. Prerequisites: HUS 30053 Human Services and the Community, PSY 32353 Developmental Psychology, and SOC 30653 Ethnic Relations and Multiculturalism and Instructor approval.

MATHEMATICS

A well-balanced mathematical background can be extremely beneficial in many areas. Recent graduates of Ottawa University hold positions such as: high school principal, high school coach and mathematics teacher, bank loan officer, actuarial intern for a life insurance company, and university professor. Although the logical nature of mathematics is of utmost importance, the basic assumption is that students are studying mathematics at the undergraduate level as a tool to be applied to problem solving. It is in this spirit that as many practical problems as possible are considered in each course, and available computers are used when appropriate.

Graduate School Emphasis

Required Major Courses:

MAT 20043	Discrete Mathematics
MAT 21044	Calculus I
MAT 21144	Calculus II
MAT 22043	Linear Algebra
MAT 26043	College Geometry
MAT 31044	Multivariable Calculus
MAT 32044	Statistics
MAT 33043	Differential Equations
MAT 36043	Non-Euclidean Geometry
MAT 42143	Abstract Algebra
MAT 43443	Numerical Methods
MAT 45043	Foundations of Calculus

Teacher Certification Emphasis: See Teacher Certification Handbook for Professional Education requirements.

Required Certification Courses — Secondary Level General Mathematics:

MAT 10643	College Algebra
MAT 11043	Elementary Functions
MAT 11243	Math for Elementary Teachers
MAT 20043	Discrete Mathematics
MAT 21004	Calculus I
MAT 21144	Calculus II
MAT 22043	Linear Algebra
MAT 26043	College Geometry
MAT 32044	Statistics
MAT 42143	Abstract Algebra
MAT 33043	Differential Equations
or	
MAT 43443	Numerical Methods

Required Certification Courses — Secondary Level Mathematics:

MAT 20043	Discrete Mathematics
MAT 21044	Calculus I
MAT 21144	Calculus II
MAT 22043	Linear Algebra
MAT 26043	College Geometry
MAT 31044	Multivariable Calculus
MAT 32044	Statistics
MAT 33043	Differential Equations
or	
MAT 43443	Numerical Methods
MAT 36043	Non-Euclidean Geometry
MAT 42143	Abstract Algebra
MAT 45043	Foundations of Calculus

Required Supporting Courses:

CIS 15043	Introduction to Programming with PASCAL
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Courses Offered:

MAT 10443 Intermediate College Algebra Emphasis is on algebraic skill development. Linear equations, quadratic equations, rational exponents, radicals, and systems of equations. Prerequisite: A previous course in algebra. 3 hrs.

MAT 10643 College Algebra Course designed to use algebra as a tool. A review of basic algebra includes: inequalities, functions and graphs, roots of polynomial equations, and the exponential and logarithmic functions. Emphasis on systems of equations and matrices, complex numbers, and linear programming. Prerequisite: Two years of high school algebra, or MAT 10443 Intermediate College Algebra, or instructor permission. 3 hrs.

MAT 11043 Elementary Functions Algebra of functions with emphasis on functions as ordered pairs and mappings, with particular attention to the properties of each type of function. Includes sequences, series, and the binomial theorem. Elementary background in sets and logic is needed. Prerequisite: MAT 10643 College Algebra, or equivalent. 3 hrs.

MAT 11243 Math for Elementary Teachers Designed to enhance the mathematical skills and knowledge as well as the pedagogical approach. Emphasis is on mathematical content and methods of presentation. Students learn to communicate mathematical ideas, organize and analyze information, solve problems readily, and construct logical arguments. 3 hrs.

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MAT 20043 Discrete Mathematics Emphasis on combinatorial problem-solving and graph theory. Course presents the modern point of view that not all applications arise in the analysis context. Course is concerned with problem-solving in the discrete case. Includes: graphs with models and applications, basic properties of graphs and digraphs, trees, combinatorial problems, elementary counting principles (especially in computer science), permutations and combinations and formal languages. Prerequisite: MAT 10643 College Algebra, or equivalent. 3 hrs.

MAT 21044 Calculus I Basic notions of limits, derivatives and integrals with basic techniques and applications to elementary functions. Emphasis on intuitive understanding and theorem application. Prerequisite: MAT 11043 Elementary Functions, or equivalent. 4 hrs.

MAT 21144 Calculus II Integration techniques and applications of derivatives, integrals, and infinite sequences and series to a wide variety of geometric, physical, and behavioral problems. Prerequisite: MAT 21044 Calculus I, or equivalent. 4 hrs.

MAT 22043 Linear Algebra An introduction to the algebra and geometry of vectors, matrices and linear transformations. Designed for all students using simultaneous equations and matrices. Prerequisite/ Corequisite MAT 21044 Calculus I and permission of the instructor. 3 hrs.

MAT 26043 College Geometry Reviews and further explores the axiomatic foundations of high school Euclidean geometry. The development of Euclidean geometry from early Greek civilization to the present is explored with particular attention to the development of non-Euclidean geometries. Topics are chosen in such a way as to highlight the relevance of geometry to everyday life. Prerequisite: high school geometry. 3 hrs.

MAT 31044 Multivariable Calculus Differential and integral calculus of functions of several variables with applications. Taylor's series, transformations, extreme problems, line and surface integrals, including Stoke's and divergence theorems. Prerequisites: MAT 10643 College Algebra. 4 hrs.

MAT 32044 Statistics Provides an introduction to the basic methods of research design and analysis of data, including both descriptive and inferential statistics. Prerequisite: MAT 10643 College Algebra. 4 hrs.

MAT 33043 Differential Equations Various techniques for finding solutions of differential equations in one variable: general characteristics of solutions of first and second-order equations; boundary value problems; series solution techniques; Bessel's and Legendre's Equations; and systems of linear equations. Also the historical development of the subject and applications to problems in the sciences will be studied. Prerequisite: MAT 31044 Multivariable Calculus. 3 hrs.

MAT 36043 Non-Euclidean Geometry Designed to help the student discover how Euclidean plane geometry is related to mathematics in general. Emphasis is placed on geometry as a logical system based on postulates and undefined terms. The fifth postulate of Euclid receives appropriate attention from a historical perspective, and from attempts to prove the fifth postulate follow the modern Non-Euclidean geometries. Prerequisites: An introductory course in high school plane geometry and MAT 10643 College Algebra. 3 hrs.

MAT 42143 Abstract Algebra Study of groups, rings and fields, vector spaces, and linear transformation culminating in elements of Galois theory. Prerequisite: MAT 22043 Linear Algebra. 3 hrs.

MAT 43443 Numerical Methods An introduction to numerical techniques and algorithms fundamental to scientific computer work, including discussion of error, roots of equations, interpolation, systems of equations, numerical integration, and methods of solution of ordinary differential equations. Prerequisites: MAT 22043 Linear Algebra and MAT 31044 Multivariable Calculus. 3 hrs.

MAT 45043 Foundations of Calculus Study of the real number system and its application to the limit concept. Proofs of basic theorems on derivatives, integrals, and continuity. Emphasis on rigor. Prerequisite: MAT 31044 Multivariable Calculus. 3 hrs.

The study of music can be undertaken for a variety of reasons: to gain skills in performance, to foster an understanding of music, to become a more discriminating listener, to gain a firm foundation in theory, and for the enjoyment of participation. Music's place in higher education was affirmed by the ancient Greeks who valued its study (along with astronomy, mathematics, and writing) for all educated persons. Ottawa provides formal study of music concepts, applied music in lessons and ensembles, and a variety of performing groups. All courses and ensembles are open to majors and non-majors alike. Music curricula are designed to aid the music student in building an understanding and working knowledge of musical skills and repertoire. Since comprehensive musicianship is a primary objective of the curriculum, ear-training, sight-singing, harmony, history, orchestration, arranging and composition, form and analysis, orchestral and choral conducting, and performance are integrated components of the curriculum.

The University offers a wide variety of performing experiences for students who plan to enter the music profession, as well as for those who wish to pursue music as an avocation. All performing groups are open to the entire college community, with auditions required in some cases. Ensembles include: Adelante Singers, University Choir, University Ringers (handbells), Jazz Ensemble, Symphonette, Pep Band, and Wind Ensemble.

Ottawa University offers departmental majors in music with emphases in applied music, church music, teacher certification, and music therapy. Please refer to the handbook entitled *Music Studies at Ottawa University* for more detailed information concerning these curriculum options.

Applied Music Emphasis

Required Major Courses:

MUS 10123	Introduction to Creative Listening
MUS 15124	Styles I
MUS 15224	Styles II
MUS 22224	Styles III
MUS 22324	Styles IV
MUS 49023	Research and Performance

and participation in two credit hours of applied music each semester, participation in an ensemble each semester, demonstration of piano proficiency, and two recitals (Junior and Senior).

Church Music Emphasis

Required Major Courses:

MUS 10123	Introduction to Creative Listening
MUS 15124	Styles I
MUS 15224	Styles II
MUS 16321	Applied Organ
MUS 22224	Styles III
MUS 22324	Styles IV
MUS 22823	Church Music
MUS 23823	Hymnology
MUS 32223	Choral Conducting, Methods, and Literature

MUS 49023 Research and Performance and participation in applied music each semester, participation in an ensemble each semester, demonstration of piano proficiency, and internship within church setting.

Teacher Certification Emphasis: See Teacher Education Handbook for Professional Education requirements.

Required Major Courses: Grades K - 12, Instrumental and Vocal.

MUS 10123	Introduction to Creative Listening
MUS 15124	Styles I
MUS 13121	Trumpet/Horn Class
MUS 13221	Clarinet/Double Reed Class
MUS 13321	Violin/Viola
MUS 13421	Percussion/Instrument Repair
MUS 13521	Trombone/Tuba Class
MUS 13621	Flute/Saxophone Class
MUS 13721	Cello/String Bass Class
MUS 15224	Styles II
MUS 22224	Styles III
MUS 22324	Styles IV
MUS 24523	Elementary Music
MUS 32123	Instrumental Conducting, Methods, and Literature
MUS 32223	Choral Conducting, Methods, and Literature

MUS 34723 Secondary Music Methods
MUS 49023 Research and Performance and participation in applied music each semester, participation in an ensemble each semester, and demonstration of piano proficiency.

Music Therapy Certification Emphasis

Teacher certification courses (see above) plus an additional year at the University of Kansas or University of Missouri at Kansas City.

Courses Offered:

Applied Music:

MUS 16121	Applied Piano
MUS 16221	Applied Voice
MUS 16321	Applied Organ
MUS 16421	Applied Brass
MUS 16521	Applied Percussion
MUS 16621	Applied Strings
MUS 16721	Applied Woodwinds

Ensembles

MUS 17121 University Choir A 40 to 60 member choir that performs for official University events throughout the school year. 1 hr.

MUS 17321 University Ringers A five-octave English handbell ensemble. Performs frequently. 1 hr.

MUS 17621 Symphonette A 40 piece orchestra comprised of student and community musicians that performs one concert per semester and at Vespers. 1 hr.

MUS 17721 Jazz Ensemble A 20 piece big band emphasizing jazz education and improvisation that performs several times throughout the school year. 1 hr.

MUS 19221 Adelante Singers A select group of 16 to 20 students that performs a diversified choral repertoire. Must be a member of University Choir to be in Adelante Singers. 1 hr.

MUS 19621 Wind Ensemble A 15 or more member band comprised of students and community musicians that generally functions with Symphonette. 1 hr.

MUS 19721 Pep Band Performs at basketball and football games. Generally, only students participate. 1 hr.

MUS 10123 Introduction to Creative Listening Development of an understanding and enjoyment of music, emphasizing the aural approach and analyzing the sounds that are applicable to all styles of music. 3 hrs.

MUS 10323 Jazz in America An introduction to the history of jazz from its development in America at the turn of the 20th century through the present. Emphasis on the recognition of styles, prominent innovators, and development of listening skills important for all forms of music. 3 hrs.

MUS 12922 Class Piano I Required of all first-year music students (unless proficiency in piano is demonstrated), and beginning piano students, course focuses on the rudiments of music notations, scales and beginning keyboarding technique. Emphasis on preparation for Music Styles curriculum. 2 hrs.

MUS 13022 Class Piano II A continuation of Class Piano I. 2 hrs.

MUS 13121 Trumpet/Horn Class A methods course designed to develop understanding of brass instrument techniques and pedagogy. Includes development of performance skills and understanding of terminology related to brass instruments. Various methodologies employed and discussed. 1 hr.

MUS 13221 Clarinet/Double Reed Class A methods course designed to develop understanding of woodwind instrument techniques and pedagogy. Includes development of performance skills and understanding of terminology related to woodwind instruments. Various methodologies employed and discussed. 1 hr.

MUS 13321 Violin/Viola Class A methods course designed to develop understanding of string instrument techniques and pedagogy. Includes development of performance skills and understanding of terminology related to string instruments. Various methodologies, including Suzuki Method are discussed. 1 hr.

MUS 13421 Percussion/Instrument Repair A methods course designed to develop understanding of percussion instrument techniques and pedagogy. Includes development of performance skills and understanding of terminology related to percussion instruments. Various methodologies discussed. Snare drum, timpani, and xylophone emphasized. Basic repair for all instruments is addressed. 1 hr.

MUS 13521 Trombone/Tuba Class Designed to develop understanding trombone and tuba techniques and pedagogy. Includes development of performance skills and understanding of terminology related to brass instruments. Various methodologies employed and discussed. 1 hr.

MUS 13621 Flute/Saxophone Class Designed to develop understanding of flute and saxophone techniques and pedagogy. Includes development of performance skills and understanding of terminology related to woodwind instruments. Various methodologies employed and discussed. 1 hr.

MUS 13721 Cello/String Bass Class Designed to develop understanding of cello and string bass techniques and pedagogy. Includes development of performance skills and understanding of terminology related to string instruments. Various methodologies employed and discussed. 1 hr.

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MUS 15124 Styles I Investigates the principles of voice leading, root part-writing, harmonic progressions, and triads in first and second inversions; initial procedures of form analysis through the study of rhythm, melody, phrase, and phrase groupings; progression of music from antiquity to the Renaissance period with emphasis on liturgical music, the rise of international European styles, emergence of imitative and non-imitative polyphonic music; development of and scoring for early wind and string instruments, and the development of simple part forms. Discussion of musics from the Near and Far East provides a multicultural perspective. Sight-singing and dictation skills furthered in class and in coordination with computer software. Prerequisite: One year of Class Piano, or permission of instructor. 4 hrs.

MUS 15224 Styles II Pursues further understanding of voice leading and part-writing principles, with use of cadences, non-chord tones, and diatonic seventh chords; music history from the Baroque era emphasizing polyphonic models and development of opera, to the waning Classical era with advancements in composite part forms, rondo, variation forms, and sonata form, development of the concerto, and the orchestration of string instruments. Discussion of musics from the Near and Far East provides a multicultural perspective. Sight-singing and dictation skills furthered both in class and in coordination with computer software. Prerequisite: MUS 15124 Styles I or permission of instructor. 4 hrs.

MUS 22224 Styles III Progresses with studies of secondary chord functions, modulation, mode mixture, the Neapolitan chord, and augmented sixth chords; continued assessment of form and further developments of multimovement forms; an assessment of nineteenth-century music with emphasis on tonal advancements, complexities of orchestral technique as related to expanded usage of woodwinds and brass, augmentation of standardized forms, and the rise of nationalism. Sight-singing and dictation skills furthered both in class and in coordination with computer software. Prerequisite: MUS 15224 Styles II or permission of instructor. 4 hrs.

MUS 22324 Styles IV Investigates enharmonic spellings, expansion of the harmonic vocabulary, tonal harmony in late-nineteenth and early twentieth-century music and other innovative practices of the twentieth century; investigation of twentieth-century "isms" as applied to music including but not limited to: impressionism, expressionism, atonalism, neo-classicism, serialism, electronicism, and minimalism; and study of orchestration with the inclusion of percussion instruments. Sight-singing and dictation skills furthered both in class and in

coordination with computer software. Prerequisite: MUS 22224 Styles III or permission of instructor. 4 hrs.

MUS 22823 Church Music The study of music, history, and liturgy of the Christian Church; the biblical relationships between music and Christian theology; the roles of the organ, choir, and congregation; planning and selection of liturgy and music for worship; and performance practices for worship. 3 hrs.

MUS 23823 Hymnology For musicians and prospective church leaders, the study of hymns from a historical perspective in the worship context. Includes study of hymnwriters and hymn texts as found in chorales, psalms, traditional hymns, gospel songs, and contemporary hymns. Also, the use of hymns as a teaching medium and as a basis for other compositions. 3 hrs.

MUS 2452_ Elementary Music Examines sequential materials and methods appropriate for teaching music in a multicultural environment grades K-8, including developmentally-challenged students. Through the study of Dalcroze, Orff, Kodaly, and Suzuki methodologies, emphasis on movement, rhythm, creative improvisation, and ear training. 2 or 3 hrs.

MUS 32123 Instrumental Conducting, Methods, and Literature Emphasizes reading, analyzing, and interpreting scores; integrating concepts from instrument method courses with ensemble settings; and selecting sequential literature from various eras for instrumental ensembles. Opportunities for conducting ensembles are provided. 3 hrs.

MUS 32223 Choral Conducting, Methods, and Literature Emphasizes reading, analyzing, and interpreting scores; integrating concepts from technique courses with ensembles; and selecting sequential literature from various eras for vocal ensembles. Opportunities for conducting ensembles are provided. 3 hrs.

MUS 34723 Secondary Music Methods Emphasizes general music; instrumental ensembles; vocal ensembles; student development, motivation, and classroom control. Overall administration of middle/ secondary school music programs. Current educational policies at the national and state levels, e.g., National Goals for America and Kansas Q. P. A., are studied for their impact on music educators. 3 hrs.

MUS 49023 Research and Performance An independent research course leading to final competency projects that include presentation of senior recital and preparation of program notes. Research and Performance culminates applied music studies, and is a major component of the comprehensive. Prerequisite: MUS 22324 Styles IV. 3 hrs.

PHILOSOPHY

Courses Offered:

PHL 11023 Basic Issues in Philosophy Introduction to the nature and purpose of philosophical reflection. Emphasis on questions concerning metaphysics, epistemology, religion, ethics, and social/political philosophy. Students are encouraged to develop their own ideas in dialogue with selected readings and other class members. 3 hrs.

PHL 21723 Introduction to Logic. Examination of the nature and structure of reason as it bears upon communication, inquiry, and argument. Emphasis on normative and critical functions of reason, basic rules of clear thinking and speaking, and the evaluation of arguments. 3 hrs.

PHL 31023 Ethics and Society An overview of philosophical and Christian ethical systems and their application in personal and social contexts. Emphasis on understanding one's own ethical system. Prerequisite: PHL 11023 Basic Issues in Philosophy or consent of instructor. Alternate years. 3 hrs.

PHYSICAL EDUCATION

The recent renewed interest in America in the need for physical fitness, preventive health care, the value of a sound body to meet the stress of a busy life, and the development of a healthy mental attitude has only enhanced the role of the physical education major. Physical Education is a rapidly expanding field involving many specialized areas. The physical educator is involved not only in the teaching and coaching of games and sports, but also in recreational leadership, counseling, administration, research, and work with disabled persons. Ottawa University's physical education program provides a departmental major with a variety of different emphases. The teacher certification emphasis is designed to prepare students for teaching in traditional educational settings. The health/fitness emphasis is designed to prepare students for implementing physical fitness or for graduate study in fitness or exercise physiology. The recreation emphasis is designed to prepare students for teaching and leadership roles in private or public recreational programs. Each student majoring in physical education must complete one of these emphases as listed below.

Health/Fitness Emphasis

Required Major Courses:

PAC 10131	Coed Weight Training
PAC 11131	Lifetime Fitness
PED 10732	First Aid
PED 11133	History and Principles of Health, Physical Education and Recreation
PED 20533	Athletic Training I
PED 30233	Psychology and Sociology of Sports
PED 30333	Athletic Training II
PED 32533	Kinesiology
PED 33532	Adaptive Physical Education
PED 34533	Exercise Physiology
PED 41733	Theory of Administration - Health, Physical Education and Recreation
PED 4103_	Internship in Physical Education(3-16 hrs)

Required Supporting Courses

BIO 10043	Principles of Biology
BIO 10042	Principles of Biology Lab
BIO 20343	Human Anatomy and Physiology
BIO 20342	Human Anatomy and Physiology Lab
BIO 21443	Introduction to Nutrition
CHE 10044	Concepts of Chemistry and Lab
or	
CHE 12044	General Chemistry and Lab
COM 30163	Interpersonal and Small Group Communications

ENG 23723	Intermediate Writing
or	
ENG 31023	Advanced Expository Writing
OAD 30563	Management
PSY 12053	Principles of Psychology

Recommended Courses:

ACC 20364	Accounting for Business Operations
CIS 12043	Introduction to Computers
EDU 31133	Psychology of Exceptional Child
PAC 10831	Beginning Swimming
PAC 11031	Advanced Swimming
PED 31833	Recreational Leadership
Additional biology, chemistry, sociology, psychology, or business courses.	

Recreation Administration Emphasis

Required Major Courses:

PAC 10131	Coed Weight Training
PAC 11131	Lifetime Fitness
PAC 10831	Beginning Swimming
or	
PAC 11031	Advanced Swimming
PAC 11231	Nontraditional Team Sports
PAC 1__3_	Two additional PAC's
PED 10732	First Aid
PED 11133	History and Principles of Health, Physical Education and Recreation
PED 20533	Athletic Training I
PED 24733	Teaching Spring Sports
PED 30032	Elementary and Secondary Rhythms and Dance
PED 30233	Psychology and Sociology of Sports
PED 30833	Elementary Physical Education Methods
PED 31833	Recreational Leadership
PED 34533	Exercise Physiology
PED 4103_	Internship in Physical Education(3-16 hrs)
PED 41733	Theory of Administration-Health Physical Education and Recreation

Required Supporting Courses:

ACC 20364	Accounting for Business Operations
BIO 10043	Principles of Biology
BIO 10042	Principles of Biology Lab
BIO 20343	Human Anatomy and Physiology
BIO 20342	Human Anatomy and Physiology Lab
COM 30163	Interpersonal Communications
CHE 10044	Concepts of Chemistry and Lab

or

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CHE 12044	General Chemistry I and Lab
ENG 23723	Intermediate Writing
or	
ENG 31023	Advanced Expository Writing
OAD 30563	Management
OAD 31863	Marketing
PSY 12053	Principles of Psychology
SPH 11023	Speech Preparation and Delivery

Recommended Courses:

ART 20222	Elementary Art Methods
CIS 12043	Introduction to Computers
OAD 31063	Business Law
PED 23733	Teaching Fall Sports
PED 33532	Adaptive Physical Education
PSC 13354	American Government

additional PAC's and coaching methods classes.

Teacher Certification Emphasis: See Teacher Education Handbook for Professional Education requirements.

Required Courses for Major:

PAC 10131	Coed Weight Training
PAC 11131	Lifetime Fitness
PAC 11231	Nontraditional Team Sports I
PAC 10831	Beginning Swimming
or	
PAC 11031	Advanced Swimming
two additional PAC's (Other than Folk and Square Dance)	
PED 10732	First Aid
PED 11133	History and Principles of Health, Physical Education and Recreation
PED 20533	Athletic Training I
PED 23733	Teaching Fall Sports
PED 24733	Teaching Spring Sports
PED 30032	Elementary and Secondary Rhythms and Dance
PED 30233	Psychology and Sociology of Sports
PED 30833	Elementary Physical Education Methods
PED 33532	Adaptive Physical Education
PED 34533	Exercise Physiology
PED 41733	Theory of Administration-Health, Physical Education and Recreation

Additional Courses Required for Teacher Certification

BIO 10043	Principles of Biology
BIO 10042	Principles of Biology Lab
BIO 20343	Human Anatomy and Physiology
BIO 20342	Human Anatomy and Physiology Lab
HUS 21253	The Family

National Athletic Trainers Association Certification Program: (Please note: This is not a major. Students pursuing this certification must also have a major to satisfy graduation requirements):

BIO 10043	Principles of Biology
BIO 10042	Principles of Biology Lab
BIO 20343	Human Anatomy and Physiology
BIO 20342	Human Anatomy and Physiology Lab
PED 20533	Athletic Training I
PED 30333	Athletic Training II
PED 32533	Kinesiology
PED 34533	Exercise Physiology

and 1500 hours of a supervised internship.

To be certified, in the National Athletic Trainers Association Certification Program, students must present proof of completion of the above courses.

Students need to provide proof of graduation in the form of an official transcript from an accredited college or university in the United States of America.

Students must provide proof of current American Red Cross Standard First Aid Certification and current Basic CPR (American Red Cross or American Heart Association) EMT accepted.

Certification application must be signed by a NATA Certified Athletic Trainer.

Students must pass the NATA Certification examination (oral, practical, written, and practical simulation).

Students must complete a minimum of 1500 hours under direct supervision of a NATA Certified Athletic trainer. This must be completed over a minimum of two years and not more than five years. For information concerning additional requirements inquire at the Physical Education Department Office.

Courses Offered:

Physical Activity Courses

PAC 10131 Coed Weight Training Principles and techniques of strength training and their application during active participation in weight lifting. Students are assisted in devising a personal weight training program consistent with health related fitness principles developed to meet their personal goals. 1 hr.

PAC 10231 Coed Tennis An understanding of the rules that govern play in tennis, and development of the skills and knowledge necessary for successful play in both singles and doubles. Students must provide their own racket and tennis balls. 1 hr.

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PAC 10331 Body Conditioning The principles and techniques of strength and cardiovascular training and various testing techniques are applied during active participation in weight lifting and aerobic exercise. Focus is on the application of health related fitness principles to personal fitness programs. 1 hr.

PAC 10431 Racquetball An understanding of the rules that govern play in singles, doubles, and cutthroat games of racquetball. Development of skills and techniques necessary for successful play and strategies important at all levels of competition. Students provide: racket, eye protectors, and racquetball. 1 hr.

PAC 10831 Beginning Swimming Skills and knowledge in the Red Cross beginner program. Included are safety, basic survival skills and work on basic strokes. Besides developing competency in these skills, this course includes a physical fitness focus using swimming and water exercise as a means of developing and maintaining health related fitness. 1 hr.

PAC 10931 Karate The Korean style of karate, called "toe kwon," is considered to be both physical and mental focusing on self evaluation. The physical training is divided into three basic parts — Kibon, Kota, and Kunité. Proper behavior, safety, conditioning, and attitude are stressed in this course. Actual ranking is allowed; the student starts with a white belt and at the end of PAC 13091 is a 9th Kup or yellow tip belt. 1 hr.

PAC 11031 Advanced Swimming An extension of the progression of knowledge and skills started in PAC 13081 as designed by the American Red Cross. It includes safety, basic survival and rescue skills as well as diving and work on more advanced strokes. 1 hr.

PAC 11131 Lifetime Fitness Students participate in a great variety of health related aerobic activities designed to help the student develop a health related fitness program for him/herself. Activities include walking, stair stepping, jogging, aerobic dance, aerobic game play, and rope jumping. Current health and fitness concepts and basic nutrition concepts are studied. 1 hr.

PAC 11231 Nontraditional Team Sports I Activities of a nontraditional nature and games relying on basic fundamental skills, including ultimate frisbee, earthball, flickerball, and Olympic team handball are used for the purpose of examining values and beliefs related to moral and ethical behavior and responsible group memberships. Because physical fitness is a secondary goal, all activities included require students to be active throughout the play. 1 hr.

PAC 11331 Folk and Square Dance Through active participation in beginning level folk and square dances, students explore the concepts of responsible group membership, group dynamics, and social interaction. 1 hr.

PAC 11431 Intermediate Karate The Korean style of karate, called "toe kwon," is considered to be both physical and mental focusing on self evaluation. The physical training is divided into three basic parts — Kibon, Kota, and Kunité. Proper behavior, safety, conditioning, and attitude are stressed in this course. Actual ranking is allowed; at the end of PAC 11431 the student is considered a full yellow belt. 1 hr.

PAC 11631 Nontraditional Team Sports II Students participate in activities and use them to generate further realizations about group process, responsible group membership, and moral and ethical behavior. In addition to the journal, a variety of reading assignments are included in this course. 1 hr.

PAC 11731 Golf Students learn and understand the rules that govern play and develop the skills and techniques necessary for successful play. Green fees must be paid by students for off-campus play. 1 hr.

Physical Education Courses:

PED 10433 Personal and Community Health A study of holistic health and lifetime wellness relating to individual and community health. Focuses on stress, human sexuality, nutrition, exercise, impact of the environment, and death. Includes physical activity related to developing health-related physical fitness. 3 hrs.

PED 10732 First Aid Practical applications in resuscitation and in emergency treatment of: strokes, heart attacks, life saving for water emergencies, burns, cuts, abrasions, and broken bones. Red Cross certification in First Aid and CPR is awarded at completion of the course. 2 hrs.

PED 11133 History and Principles of Health, Physical Education, and Recreation History, philosophy, and principles of health, physical education, and recreation. Resource materials, professional literature, and current research. 3 hrs.

PED 20533 Athletic Training I An introduction to the prevention, care, and rehabilitation of athletic injuries. Students learn skills to evaluate injuries common to sports as well as preventive taping and wrapping of different anatomical joints. 3 hrs.

PED 22732 Methods of Coaching Football Theory of coaching, officiating, and administering intramural, recreational and interscholastic football programs. Field work required. 2 hrs.

PED 22832 Methods of Coaching Volleyball Theory of coaching, officiating, and administering intramural, recreational and interscholastic volleyball programs. Field work required. 2 hrs.

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PED 23733 Teaching Fall Sports Principles of teaching rules, strategies, and skill performance in badminton, volleyball, soccer, and soccer type games. 3 hrs.

PED 23832 Methods of Coaching Track Theory of coaching, officiating, and administering intramural, recreational and interscholastic track programs. Field work required. 2 hrs.

PED 23932 Methods of Coaching Soccer Theory of coaching, officiating, and administering intramural, recreational and interscholastic soccer programs. Extensive field work required. 2 hrs.

PED 24733 Teaching Spring Sports Principles of teaching rules, strategies, and skill performance in basketball, tennis, tumbling and gymnastics, and softball type games. 3 hrs.

PED 24832 Methods of Coaching Basketball Theory of coaching and administering intramural, recreational and interscholastic basketball programs. Field work required. 2 hrs.

PED 30032 Elementary and Secondary Rhythms and Dance An introduction to the principles and practices of various kinds of rhythmic activities. Prerequisite: PED 30833 Elementary Physical Education Methods or permission of the instructor. 2 hrs.

PED 30233 Psychology and Sociology of Sport An examination of the centrality of sports in modern society, this course is an essential component in the professional preparation for careers in physical education, recreation, and related areas. Topics include the psychological effects of sport, the roles of sport in modern society, aggression, drugs-alcohol-gambling in sports, fear of failure and fear of success, youth sports, team cohesion, and the psychology of injury rehabilitation. Prerequisite: PSY 12053 Principles of Psychology or SOC 10153 Social Thought. 3 hrs.

PED 30333 Athletic Training II Detailed study of athletic injuries including physiology of injuries, theories of rehabilitation, and the use of various modalities in treating athletes. Includes discussion of current issues in sports. Prerequisite: PED 20533 Athletic Training I. 3 hrs.

PED 30833 Elementary Physical Education Methods Knowledge of the physical development of the child and an awareness of resources for the child's activity and recreation. Emphasis on materials and activities which

provide optimal physical development for each individual. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

PED 31833 Recreational Leadership Emphasis on development of a personal philosophy of recreation and the importance of recreation in modern life. The student develops skills needed to administer recreation programs in schools, churches, and community. 3 hrs.

PED 32533 Kinesiology The study of the science of human motion, the movement of the body and its parts. Emphasis on the factors affecting the use of implements, such as force, friction, elasticity, projection, and angles, to analyze and improve performance. Prerequisites: BIO 10043 Principles of Biology and Lab and BIO 20343 Human Anatomy and Physiology and Lab or permission of the instructor. 3 hrs.

PED 33532 Adaptive Physical Education The study of physical education adapted to those whose physical inadequacy or functional defect can be improved through physical activity. The purpose is to develop and understand a physical education program for gifted, retarded, handicapped and disadvantaged individuals. 2 hrs.

PED 34533 Exercise Physiology The study of the physical responses of the human body to the stress induced by physical activity. The course is designed to prepare students interested in the physical training of both athletic and nonathletic population groups. Prerequisites: BIO 10043 Principles of Biology and Lab and BIO 20343 Human Anatomy and Physiology and Lab or permission of the instructor. 3 hrs.

PED 4103_/4203_ Internship in Physical Education Course places the student in a recreational setting dealing with program, management, and leadership roles beyond the formal course study. Prerequisite: Approval by department chairperson. 3- 8 hrs.

PED 41733 Theory of Administration in Health, Physical Education and Recreation Course includes the study of administrative philosophies and processes including administrative behavior, leadership, and organizational procedures. Includes theory and practice involving tests and measurements in physical education and sport as well as program evaluation procedures. Off campus work is required. 3 hrs.

PHYSICS

Courses Offered:

PHY 11043 Physical Science Basic method and principles of physical science, examining selected problems in physics, chemistry, geology and astronomy, with particular emphasis on relating fundamental physical laws to current environmental, energy, and other societal problems. Corequisite: PHY 11041 Physical Science Lab. 3 hrs.

PHY 11041 Physical Science Lab Corequisite: PHY 11043 Physical Science. 1 hr.

PHY 22043 College Physics I Designed primarily for students with specific interest in the sciences. Fundamental laws of physics with application to contemporary problems. Topics include mechanics, relativity, heat, wave motion, and sound. Prerequisite: MAT 11043 Elementary Functions. Corequisite: PHY 22041 College Physics I Lab. Alternate Years. 3 hrs.

PHY 22041 College Physics I Lab Corequisite: PHY 22043 College Physics I. 1 hr.

PHY 22143 College Physics II Topics include electricity and magnetism, light, optics, atomic and nuclear struc-

ture, and wave/particle duality. Prerequisite: PHY 22043 College Physics I. Corequisite: PHY 22141 College Physics II Lab. Alternate Years. 3 hrs.

PHY 22141 College Physics II Lab Corequisite: PHY 22143 College Physics II. 1 hr.

PHY 24743 University Physics I Calculus based version of PHY 22043 College Physics I, recommended for pre-engineering students. Prerequisite: MAT 21044 Calculus I. Corequisite: PHY 24741 University Physics I Lab. Alternate Years. 3 hrs.

PHY 24741 University Physics I Lab Corequisite: PHY 24743 University Physics I. 1 hr.

PHY 24843 University Physics II Calculus based version of PHY 22143 College Physics II. Three one-hour lectures, one three-hour laboratory per week. Prerequisite: MAT 21044 Calculus I. Corequisite: PHY 24841 University Physics II Lab. Alternate Years. 3 hrs.

PHY 24841 University Physics II Lab Corequisite: PHY 24843 University Physics II. 1 hr.

POLITICAL SCIENCE

Political Science courses provide valuable preparation for a variety of careers. These careers include government service at the national, state, and local levels. Many attorneys have chosen political science as their undergraduate major. People active in various movements for social change have taken advantage of the knowledge provided by the study of political science to support their cause more actively and effectively. Many undergraduates who study political science enter business careers where a knowledge of politics has become increasingly necessary as relationships between government and business become more complex. In every vocation, knowledge of political science has become crucial as the role of government expands in our society.

Required Major Courses:

PSC 13354	American Government
PSC 22454	World Political Communities
PSC 32254	Political Parties
PSC 33254	International Relations
PSC 34254	The Civil War
PSC 34354	Seminar in American History and Government
or	
PSC 34554	The Presidency
HIS 11054	The American Experience
HIS 25353	World Civilization I
or	
HIS 25453	World Civilization II
HIS 31654	Twentieth Century America

Required Supporting Courses:

ENG 23723	Intermediate Writing
or	
ENG 31023	Advanced Expository Writing
MAT 32044	Statistics
SPH 11023	Speech Preparation and Delivery
and at least one course from Computer Information Systems, Economics, Sociology, and Psychology.	

Teacher Certification Emphasis: See Teacher Education Handbook for current requirements.

Required Certification Courses — Secondary Level Combination Programs in Social Studies: See Teacher Education Handbook.

Courses Offered:

PSC 13354 American Government An introduction to American government; philosophy, structure, and operation. Study is made of the performance and problems of American government with emphasis on the question of the citizen's knowledge, role and responsibility. Fall semester. 4 hrs.

PSC 22454 World Political Communities The study and comparison of foreign nation-states. Emphasis is placed on the questions of what is important to know about foreign nation-states and how it can be known. Prerequisite: PSC 13354 American Government or permission of the instructor. Odd numbered years, spring semester. 4 hrs.

PSC 32254 Political Parties A study of the American political party system—its organization, strengths, weaknesses, function, and techniques—with emphasis on the post-World War II era and trends of the U.S. political party system. Prerequisite: One course in political science or permission of instructor. Even numbered years, fall semester. 4 hrs.

PSC 33254 International Relations An introduction to international relations and foreign policy. Emphasis on the study of the causes of international conflict, the resolution of conflict, and the study of war, particularly its prevention. Prerequisite: PSC 13354 American Government or permission of instructor. Odd numbered years, fall semester. 4 hrs.

PSC 34254 The Civil War A study of the Civil War with a special view of and from the perspective of Abraham Lincoln. Odd numbered years, spring semester. 4 hrs.

PSC 34354 Seminar in American History and Government A selection of readings and topics on American history and government. Common theme, assigned readings, individual projects. Inquire in advance for information on selected topics. Credit in either history or political science. Prerequisites: Junior or senior standing and one course in history or political science. Even numbered years, spring semester. 4 hrs.

PSC 34554 The Presidency An examination of the American presidency from the perspectives of history and political science. Study of the institution and some of the men who have held the office. Particular emphasis on the development of the modern presidency, the period since 1933, the last presidential campaign and election, and the current nomination campaign. Offered every four years (presidential year), spring semester. 4 hrs.

Psychology is the scientific study of behavior. The discipline utilizes a variety of approaches including the nature of scientific investigation and its methodology; experimentation and data analysis; theory and measurement. Psychology is an interesting field of study and a useful discipline in understanding and working with people in a variety of professional and paraprofessional applications.

Required Major Courses:

PSY 11053	Personal Growth
PSY 12053	Principles of Psychology
PSY 30153	Theories of Personality
PSY 30353	Psychology of Abnormal Behavior
PSY 30853	History and Systems of Psychology
PSY 32153	Social Psychology
PSY 32253	Research Design and Analysis
PSY 32353	Developmental Psychology
PSY 33453	Tests and Measurements
PSY 40553	Counseling Theories and Dynamics
MAT 32044	Statistics

Recommended Courses:

BIO 10043	Principles of Biology
BIO 10042	Principles of Biology Lab
BIO 20343	Organismic Biology
BIO 20342	Organismic Biology Lab
COM 30163	Interpersonal and Small Group Communications
CIS	a course in computer applications
HUS 20153	Issues in Child Welfare
HUS 21253	The Family
MAT 10643	College Algebra
or	
MAT 11043	Elementary Functions
PHL 11023	Basic Issues in Philosophy
PHL 21723	Introduction to Logic
PHL 31023	Ethics and Society
PSY 4105_/4205_	Internship in Psychology
SOC 10153	Social Thought
SOC 11753	Social Problems and American Values
SOC 26053	Cultural Anthropology
SPH 11023	Speech Preparation and Delivery

Teacher Certification Emphasis: See Teacher Education Handbook for Professional Education requirements.

PSY 11053	Personal Growth
PSY 12053	Principles of Psychology
PSY 30353	Psychology of Abnormal Behavior
PSY 32353	Developmental Psychology

PSY 33453 Tests and Measurements

Courses Offered:

PSY 11053 Personal Growth Focuses on the personal dynamics and psychosocial processes involved with self-actualization, using a theoretical and experiential approach. Students have an opportunity to participate in small group exercises and to explore their personal life styles, strategies of coping, defense mechanisms, and communication skills. 3 hrs.

PSY 12053 Principles of Psychology An introduction to understanding human behavior. Emphasis on basic concepts and terminology of psychology, including the biological basis of behavior, sensation, perception, history of psychology, growth and development, motivation, learning, measurement and scientific methodology, emotion, personality, abnormal behavior, and psychotherapy. 3 hrs.

PSY 32153 Social Psychology Examines social influences on human behavior, including attitude formation and change, influence and persuasion, social attraction, theories of aggression, conformity, cultural impact, leadership styles, power and status, social roles, and environmental influences. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

PSY 30153 Theories of Personality Emphasis on the modern psychoanalytic, behavioristic, and humanistic theories of personality development. Prerequisite: PSY 12053 Principles of Psychology. 4 hrs.

PSY 30353 Psychology of Abnormal Behavior Study of the biological, psychological, and sociocultural influences contributing to abnormal behavior patterns. Includes history, identification, diagnosis and treatment of various psychopathological disorders. Prerequisite: PSY 12053 Principles of Psychology. 4 hrs.

PSY 30853 History and Systems of Psychology A review of the historical antecedents of contemporary psychology. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

PSY 32253 Research Design and Analysis A review of basic research methods focusing on the conceptual basis for experimentation. Includes basic design components such as control, sampling, data collection and analysis. Prerequisites: PSY 12053 Principles of Psychology and MAT 32044 Statistics. 3 hrs.

PSY 32353 Developmental Psychology An overview of theory and research on human growth and development through the lifespan focusing on biological, psychological, and sociological patterns. Prerequisite: PSY 12053 Principles of Psychology. 4 hrs.

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PSY 33453 Tests and Measurements A survey of the types of tests and other measurement tools. Includes construction, application, and interpretation with various populations. Prerequisites: PSY 12053 Principles of Psychology and MAT 32044 Statistics. 3 hrs.

PSY 40553 Counseling Theories and Dynamics An introduction to the major systems and theories of counseling and psychotherapy, including the dynamics which contribute to an effective therapeutic approach. Use of both didactic and experiential teaching methods. Prereq-

uisites: PSY 12053 Principles of Psychology and PSY 30153 Theories of Personality or PSY 30353 Psychology of Abnormal Behavior. 4 hrs.

PSY 4105_/4205_ Internship in Psychology May be taken for 1 to 8 hours of academic credit. Students interested in obtaining practical experience in their major area of interest are encouraged to pursue an internship. The internships are arranged individually and are usually taken after the completion of the major course work.

RELIGION

The religious dimension of life and faith is part of the total University mission and is manifested in various ways. The formal study of religion enables students to deepen and clarify the understanding of their faith. Formal religious study is provided for the Biblical, historical, and comparative dimensions of faith. Students may study religion to prepare for church vocations, others because of the value for individual development and growth of human and personal understanding. Religion courses may also be combined advantageously with the study of philosophy and other areas of the liberal arts. These programs can be developed through the use of the option of the individualized major.

Required Major Courses:

REL 11123	Introduction to the Old Testament
REL 11223	Introduction to the New Testament
REL 20123	Biblical Book
REL 23723	Dimensions of Faith
REL 32923	Contemporary Issues in Biblical and Theological Studies
REL 33823	World Religions
REL 34723	The Life and Meaning of Jesus
REL 34823	The Life and Thought of Paul

Recommended Courses:

REL 11323	Contemporary American Religious Groups
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Courses Offered:

REL 11123 Introduction to the Old Testament History of the Hebrew nation. The Old Testament in light of the historical situation. Prophetic literature in its relation to the Christian tradition. 3 hrs.

REL 11223 Introduction to the New Testament Literature and teaching of the New Testament in light of the historical situation. Authority of the New Testament for faith and practice. 3 hrs.

REL 11323 Contemporary American Religious Groups An analysis of current American religious bodies. Consideration of both the more traditional bodies and the more recent arrivals. 3 hrs.

REL 20123 Biblical Book An in-depth study of a particular Biblical book, varies from year to year. 3 hrs.

REL 23723 Dimensions of Faith An introduction to some of the more significant themes of Christian thought today. Themes include both traditional concepts and more contemporary developments in religious thought. Emphasis on one's personal interaction with these themes. Alternate years. 3 hrs.

REL 32923 Contemporary Issues in Biblical and Theological Studies Examination of key issues that relate to the Biblical literature, including historical uniqueness of the Biblical faith, reliability of the Biblical record, the historical Jesus, and interpretation and authority of the Bible. Alternate years. 3 hrs.

REL 33823 World Religions Set in historical perspective. Basic teachings. Alternate years. 3 hrs.

REL 34723 The Life and Meaning of Jesus Examination of Gospel literature as it relates to Jesus. Consideration of various historical approaches to the life and ministry of Jesus. The significance of Jesus. Prerequisite: REL 11223 Introduction to the New Testament, or approval of instructor. 3 hrs.

REL 34823 The Life and Thought of Paul An examination of the life of Paul in relation to his career and his epistles. Prerequisite: REL 11223 Introduction to the New Testament, or approval of instructor. 3 hrs.

Sociology is the systematic study of human social behavior. Students of sociology study the processes of social interaction in and between groups and societies. The program incorporates the flexibility needed to meet various student interests through the special topics option. This means that every student will develop an expertise in a specific interest area. Students may also choose to focus on anthropology as a part of the sociology curriculum. Another important facet of the program involves the field research component in the senior year. This course requirement is the equivalent of an internship which provides the student with practical experience in the field.

This program is preparatory for careers which require a knowledge of the various ways in which ethnic groups interact; the relationship between an individual and patterns of behavior in society, particularly as they relate to problem oriented issues; an ability to do program assessment and evaluation; and an ability to do data gathering and interpretation to explain social behavior. These abilities prepare students for work in occupations which might include social research and analysis, consulting, teaching, law enforcement, marketing, community organization and city planning, organizational development, personnel services, and administration in social agencies. Graduate school is an additional option for sociology majors.

Required Major Courses:

SOC 10153	Social Thought
SOC 10453	Introduction to Sociology
SOC 11753	Social Problems and American Values
SOC 26053	Cultural Anthropology
SOC 30653	Ethnic Relations and Multiculturalism
SOC 31553	Directions of Social and Cultural Change
SOC 40053	Theory and Method in Sociology
SOC 40753	Sociology of Deviance
SOC 4205_	Internship in Sociology /Field Research (3-8 hrs)
SOC 45553	Special Topics in Sociology

Required Supporting Courses:

PSY 12053	Principles of Psychology
PSY 32153	Social Psychology
PSC 13354	American Government
MAT 32044	Statistics

Recommended Courses:

CIS 20043	Database Systems
ECO 20163	Macroeconomics

Anthropology Focus

SOC 10453	Introduction to Sociology
SOC 26053	Cultural Anthropology
SOC 30653	Ethnic Relations and Multiculturalism
SOC 31553	Directions of Social and Cultural Change
SOC 40053	Theory and Method in Sociology
SOC 4205_	Internship in Sociology/Field Research
PSC 13354	American Government
PSY 12053	Principles of Psychology
PSY 32153	Social Psychology
FRE 10124	Elementary French
or	
SPA 10124	Elementary Spanish
HIS 25353	World Civilization I
BIO 31143	Field Ecology
REL 33823	World Religions

Courses Offered:

SOC 10153 Social Thought Focus on concepts fundamental to the existence of society through a sociological perspective. Covers historical development and contemporary manifestation of ideas including freedom, inequality, ethnocentrism, belief, and individual responsibility as they relate to culture in the United States. 3 hrs.

SOC 10453 Introduction to Sociology Introduces theory and method in the social sciences as they relate to key concepts in the field of sociology including: socialization, culture, status, stratification, conflict and change. 3 hrs.

SOC 11753 Social Problems and American Values Analysis of human maladjustments as they relate to the culture of the U.S., concentrating on the social factors operative in both personal and social problems. Additional analysis of programs to alleviate or eliminate social problems. 3 hrs.

SOC 26053 Cultural Anthropology An introductory course that surveys history, theory and method in the field through an examination of basic concepts in anthropology including culture, adaptation, cooperation, social order and change. 3 hrs.

SOC 25553/45553 Special Topics in Sociology Allows students to focus on specific topics and research skills. Focus area determined by the student and approved by the professor. Course is divided into three sections: research, application, and synthesis. SOC and HUS majors. 3 hrs.

SOC 30653 Ethnic Relations and Multiculturalism A study of the intergroup and intragroup experiences of the various ethnic populations within the U.S. The impact of integration, discrimination, prejudice, and the social dynamics of conflict and assimilation are examined in relationship to various groups. Prerequisite: SOC 10153 Social Thought or SOC 10453 Introduction to Sociology. 3 hrs.

SOC 31553 Directions of Social and Cultural Change Analysis of the processes of social change at various levels of society. Application of sociological theory regarding cause, manifestation and consequence of change agents. Prerequisites: SOC 10453 Introduction to Sociology and SOC 11753 Social Problems and American Values or SOC 26053 Cultural Anthropology. 3 hrs.

SOC 40053 Theory and Method in Sociology Applica-

tion of social science methods to theory testing. Particular attention given to qualitative methods and computer applications. SOC and HUS majors only. Prerequisite: SOC 30653 Ethnic Relations and Multiculturalism. 3 hrs.

SOC 40753 Sociology of Deviance Explores various theoretical definitions and explanations of the frequency and extent of deviance and crime in society. Includes treatment of criminology with consideration of the social characteristics of offenders, victims, crime rates and various punishment strategies. SOC and HUS majors only, or by permission of instructor. Prerequisite: SOC 30653 Ethnic Relations and Multiculturalism. 3 hrs.

SOC 42053 Field Research 3-8 hrs.

SOC 45553 Special Topics 3 hrs.

SPANISH

Courses Offered:

SPA 10124 Elementary Spanish I and Lab. Introduction to pronunciation, basic language structure and vocabulary, simple conversation, reading, writing, and culture. Special emphasis on oral comprehension to serve as an introductory model for speaking. Extensive practice with audio tapes outside class. 4 hrs.

SPA 10224 Elementary Spanish II and Lab. Continuation of Elementary Spanish I.

SPA 20123 Intermediate Spanish I Advanced language structure, expanded vocabulary, intensive reading, continuing emphasis on oral comprehension and speaking, directed and free composition practice, and advanced study of Hispanic cultures. Extensive practice with audio tapes outside of class. 3 hrs.

SPA 20223 Intermediate Spanish II Continuation of Intermediate Spanish I, with supplementary work in discipline specific vocabulary and style. Optional introduction to Hispanic literature. 3 hrs.

SPEECH

Courses Offered:

SPH 10121-10821 Intercollegiate Forensics This course is designed to give students active training in speech communications, and will include traveling on the competitive speech and debate teams. May be taken up to eight semesters. Prerequisite: Instructor permission. 1 hr.

SPH 10923 Voice and Diction Study of the speech organs and their functions, building awareness of the individual speaking voice. Study of the International Phonetic Alphabet with the goal of achieving Standard American speech. Training and development of articulation, projection, rhythm and melody. Alternate years. 3 hrs.

SPH 11023 Speech Preparation and Delivery Course designed to give students instruction and practice in speaking before a group. Practical study of processes of development of a speech and its delivery, with oral practice in various forms of public address. Development of criteria for judging and evaluating effective speaking. 3 hrs.

SPH 20223 Argumentation and Debate The study of the principles of argumentation and practice in debate techniques with special emphasis on reasoning and research, case construction, refutation and rebuttal. Use of the collegiate debate question to give practical experience in various forms of debate. Prerequisite: SCT 11023 Speech Preparation and Delivery. 3 hrs. (Alternate Years)

SPH 20523 Oral Interpretation Development and understanding of prose, poetry and dramatic literature from selection through analysis to performance, both individually and in groups. Alternate years. 3 hrs.

SPH 30023 Seminar in Speech Communication An advanced study in rhetorical and social theories of communication. Applications of traditional and contempo-

rary methods of studying human discourse may include one of the following topic areas: intercultural communication, organizational communication, communication and the arts, or advanced public speaking. Prerequisite: Permission of the instructor. 3 hrs. (Alternate Years)

Also see Communication.

Teacher Certification Emphasis: See Teacher Education Handbook for Professional Education requirements.

Must have passing PPST scores for the following:

EDU 31632	Reading in the Content Area
EDU 36032	Secondary Methods: Speech
EDU 32532	Secondary and Middle School Practicum
COM 10063	Survey of Mass Communication
SPH 10923	Voice and Diction
SPH 11023	Speech Preparation and Delivery
THE 11421	Applied Theatre
THE 14123	Stagecraft
THE 14623	Introduction to Theatre
SPH 10121-10821	Intercollegiate Forensics
THE 20023	Acting I
COM 30163	Interpersonal and Small Group Communication
SPH 22023	Argumentation and Debate
SPH 20523	Oral Interpretation
COM 21163	Broadcast Journalism
THE 40624	Directing
THE 41023	Theatre Practicum

THEATRE

Dramatic literature, theatrical performance, technical theatre and design, and an appreciation of the fine arts are at the core of a liberal arts education. The theatre program is designed to meet the needs of both the liberal arts education and the major. It gives students a knowledge of theatre, emphasizes the importance of the arts in our lives, and allows us to better understand ourselves, others, and the world. The theatre major receives an academic foundation and practical experience with main stage productions, co- and extracurricular activities, and preparation for study in graduate/professional schools or for a career in professional theatre. The teacher education theatre major is provided an academic and production program that will prepare the student for a career in education.

Theatre/Theatre Performances Emphasis

Required Major Courses:

SPH 10923 Voice and Diction
 THE 14123 Stagecraft
 THE 14623 Introduction to Theatre
 THE 20023 Acting I
 THE 31523 History of Theatre I
 THE 31623 History of Theatre II
 THE 35523 Topics in Theatre
 THE 40023 Acting II
 THE 40624 Directing
 THE 4102_/4202_ Theatre Practicum (1-3 hrs)
 or 4902_ Performance Comprehensive (1-3 hrs)
 Applied Theatre must be taken each semester except during the semester the student is enrolled in Theatre Practicum or Performance Comprehensive.

Required Supporting Courses:

ENG 31823 Shakespeare Seminar
 MUS 16221 Applied Voice
 PSY 12053 Principles of Psychology

Teacher Certification Emphasis: See Teacher Education Handbook for Professional Education requirements.

Certification Requirements

COM 10063 Survey of Mass Communications
 SPH 10923 Voice and Diction
 SPH 11023 Speech Preparation and Delivery
 THE 14123 Stagecraft
 THE 14623 Introduction to Theatre
 THE 20023 Acting I
 THE 31523 History of Theatre I

THE 31623 History of Theatre II
 THE 40023 Acting II
 THE 40624 Directing
 THE 4102_/4202_ Theatre Practicum (1-3 hrs)
 or 4902_ Performance Comprehensive (1-3 hrs)
 Applied Theatre must be taken each semester except during the semester the student is enrolled in Theatre Practicum or Performance Comprehensive.

Courses Offered:

THE 11421, 11521, 11621, 11721, 11821, 11921, 12021, 12121 Applied Theatre Designed for students participating in -- acting or backstage work -- the theatre productions of the University. Course work arrangements made individually with the theatre director. 1 hr.

THE 14123 Stagecraft Theory and practice of technical phases of play production, including stagecraft, lighting, costuming, makeup, design, and theatre management. Understanding of coordination and management of all phases of production. Includes practical work on productions. Alternate years. 3 hrs.

THE 14623 Introduction to Theatre A basic knowledge of the theatre, its origins and development. Focuses on the creative work and joy that are involved in theatre from playwright, director and actor, to designer, technician and critic. Introduces some of the world's great dramas with emphasis on modern plays. 3 hrs.

THE 20023 Acting I The basic techniques for comprehension of the theory and practice of acting. An exploration of both "inner" and "outer" techniques to create a role. Follows the working steps from analysis of the script to the creation in performance of a fully realized characterization. Designed as an introduction for beginning students and a basis for advanced study. 3 hrs.

THE 31523 History of Theatre I Study of the origins and development of the theatre from the Greeks to the seventeenth century. Examination and analysis of major playwrights and plays with emphasis on European and Eastern works. Includes overview of history of theatre criticism. Alternate years. 3 hrs.

THE 31623 History of Theatre II Development of the theatre from the late seventeenth century, development of Realism through the twentieth century to contemporary movements. Examination and analysis of major playwrights and plays of Europe and America. Alternate years. 3 hrs.

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THE 35523 Topics in Theatre An advanced study in theatrical theory and practice of a specialized area within the discipline of theatre. Especially designed for theatre majors but available to nonmajors wishing to specialize. Includes historical, traditional, and contemporary approaches and techniques, and in-depth study in an area such as theatrical make-up, children's theatre, contemporary dramatic literature, or concepts in theatre set, lighting, or costume design. Prerequisites: Permission of instructor and appropriate basic courses. 3 hrs.

THE 40023 Acting II An advanced acting course continuing development of skills acquired from Acting I. Emphasis on acting styles required for successful performance of historical period plays and genres and the techniques to interpret, analyze, and portray roles from historic literature. Prerequisite: THE 20023 Acting I or permission of the instructor. 3 hrs.

THE 40624 Directing Theory and practice of directing: composition, picturization, movement, rhythm and pantomimic dramatization. Examines directing of the last one hundred years, from proscenium to central experimental staging. Requires final project. Prerequisites: THE 14123 Stagecraft, THE 14623 Introduction to the Theatre, and THE 20023 Acting I. Alternate years. 4 hrs.

THE 4102_/4202_ Theatre Practicum Experience in theatrical production or internship. Requires definition of area of study and major project. Consent of instructor required. May be taken for credit in Senior Comprehensive. 1-3 hrs.

THE 4902_ Performance Comprehensive. This course presents senior theatre performance majors with an opportunity to demonstrate their maturity of performance skills and techniques. Prerequisites: Senior status and a declared and approved major in theatre. 1-3 hrs.

UNIVERSITY COURSES

Courses Offered:

UNV 11413 Introduction to Basic College Skills Attention to the improvement of basic and developmental level reading and writing competencies. Areas dealt with include: reading comprehension and speed, organization, sentence structure, developing ideas, word choice, word forms, and punctuation. Study skills and time management also addressed. 3 hrs.

UNV 20311 Newspaper Production Participation in news gathering, production, editing, and publication of

the campus newspaper. Prerequisite: Completion of or co-registration in COM 12163, Introduction to Print Journalism I, or permission of the instructor. May be repeated for a total of 8 semester hours of credit. 1 hr.

UNV 20411 Yearbook Production Participation in production, editing, and publication of the campus yearbook. Prerequisite: Completion of or co-registration in COM 12163, Introduction to Print Journalism I, or permission of the instructor. May be repeated for a total of 8 semester hours of credit. 1 hr.

Individualized Major

Throughout the decade of the 1970s, Ottawa University's academic program was one which required all students enrolled to develop a unique statement of their own vocational and avocational interests and expectations and to construct an educational program with the aid of an advisory committee. Through that process each student, therefore, developed his or her own major, and no traditional academic major program was published or expected to be followed by those students. As a result of that experience, Ottawa University has developed a tradition of working with students to help them explore and consider options that depart from standard major programs.

Students whose interests involve several disciplines and who would like to develop a course of study that combines a number of academic areas around a common theme will find the individualized major ideally suited to their needs. A student works with a faculty member to develop the statement of the program and its content and submits the program for review to the Academic Council. Each student's program is uniquely designed for the particular student. For that reason, no courses are listed as part of the individualized major.

Pre-Professional Programs

Pre-Ministerial Program. Study for the ministry does not presuppose any particular undergraduate course of study. In addition to a sense of vocation for the ministry, most seminaries are more concerned with whether an applicant has acquired a broad background of knowledge and the skills of communication and critical thinking than with his/her undergraduate major. As a result, students may attend seminary having pursued virtually any area of concentration. It is clear, however, that some majors may be more helpful to seminary studies than others, and pre-ministerial students are urged to choose a course of study that will enhance their effectiveness both in seminary and in the ministry. Thus pre-ministerial students often major in psychology, sociology, English, human services, philosophy, or religion (though some seminaries discourage applicants from an undergraduate major in religion since so much of that study will be duplicated in their seminary training).

In keeping with the need for a broad background of knowledge, pre-ministerial students are urged to be sure that they have an adequate introduction to the major areas of liberal arts study and, in particular, to the disciplines dealing with the study of society, government, economics, ethics, philosophy, literature, human behavior, and

the arts. In addition, pre-ministerial students are encouraged to acquire particular kinds of managerial and interpersonal skills that will be of use in their ministries and, therefore, should consider the following courses as especially relevant to the pre-ministerial program, regardless of particular major:

ACC 20364	Accounting for Business Operations
CIS 12043	Introduction to Computing
ENG 23723	Intermediate Writing
ENG 31023	Advanced Expository Writing
PSY 32153	Social Psychology
PHL 21723	Introduction to Logic
SPH 11023	Speech Preparation and Delivery
COM 30163	Interpersonal Communications

Pre-Law Program. Admittance to a professional school of law is available to students from a variety of major fields of concentration. Law schools are less interested in a specific program of study which could be called a pre-law major, but rather are interested in a number of specific skills most of which are concentrated in the use of language and in the communication arts.

Students seeking admittance to law schools are advised to select a major appropriate to their own interests but to be sure to include as many courses as possible to assist them in the preparation for the use of the English language in its written and oral forms. In addition, students are encouraged to consider that the practice of law involves the handling and administration of other people's money and estates and will also involve dealing with all types of individuals. Thus, students are well advised to seek those courses which prepare them to understand human growth and development, general psychological principles, and sufficient accounting or related business courses to familiarize them with the administrative details of the handling of financial affairs. Therefore, in addition to the student's specific major field, the following courses should be considered as recommended for pre-law majors:

ENG 23723	Intermediate Writing
ENG 31023	Advanced Expository Writing
SPH 11023	Speech Preparation and Delivery
ACC 20364	Accounting for Business Operations
ACC 20464	Accounting for Financing and Investing Activities
ECO 20163	Macroeconomics
CIS 12043	Introduction to Computing
PHL 21723	Introduction to Logic
PSY 12053	Principles of Psychology
PSY 32153	Social Psychology
SOC 10153	Social Thought

Pre-Health Professional Program for Graduate Studies. Health professional schools are looking for college graduates who are able to cope with many facets of an individual's life. They know that physicians must help patients with personal, social, and spiritual problems as well as attending to their physical well-being. Ottawa University's pre-professional programs are designed to build the foundation which will help the student be prepared for professional graduate school as well as for the variety of problems that students must handle in serving the needs of clients. A major field may be selected in a variety of different disciplines as long as the specific courses are included in the undergraduate program in order to satisfy the expectation for admission to the professional or graduate program of medicine or dentistry.

To assist students in the process, the University provides a Health Professions Committee that can be of considerable assistance in both advising and counseling students on the appropriate course selection and procedures for pursuing entrance to professional school. Graduate school advising is provided by faculty in the department in which the student is majoring. The program is demanding and requires commitment on the part of the student. However, students who complete the programs are adequately prepared and have established the self-confidence necessary for success and acceptance to professional health care programs. Please see program advisor in the Biology Department for course requirements.

Pre-Engineering Studies. Many of the problems facing our society need technological solutions which will come only with a strong work force of engineers and scientists. To be technically trained will not be sufficient. Engineers must be sensitive to the environmental, societal, and human implications of both problems and solutions. It is essential that engineers be liberally educated to meet the demands of a changing world. At Ottawa University, the primary objective is to provide just such a liberal arts education. The pre-engineering curriculum is designed to do this while providing a grounding in science and mathematics courses to prepare the student for the upper-level engineering courses which he/she will encounter after transferring to an engineering college to complete his/her studies.

The pre-engineering program operates as follows:

The student meets with the Pre-Engineering Advisor at Ottawa University and develops a contract. In most cases all the requirements for a degree from Ottawa can be met in the three-year period except for the major in Mathematics and 124 credit hour requirement for gradu-

ation. The contract specifies that after appropriate courses in applied mathematics are completed at the engineering school chosen by the student, the major in mathematics will be considered fulfilled. The same type of specifications are made concerning the 124 hour requirement. When official transcripts are received by Ottawa University showing that these additional courses and hours have been completed, a B.A. degree from Ottawa University is granted. This program is the same regardless of the engineering school chosen and the area of interest: Civil, Mechanical, Electrical, etc. In the advising process, it would be beneficial for the student to be guided by a catalog from the school to which he/she wishes to transfer. It is important that the student contact the Pre-Engineering Advisor as soon as possible so that an individualized plan can be developed. For a list of required mathematics courses at Ottawa University, see the required major courses for Mathematics. In addition, courses included are:

CHE 12044	General Chemistry I and Lab
CHE 12144	General Chemistry II and Lab
CHE 23043	Organic Chemistry I and Lab
CHE 23143	Organic Chemistry II and Lab
PHY 24743	University Physics I and Lab
PHY 24843	University Physics II and Lab
	A Computer Language Course

The student should be prepared with a solid mathematics background in high school work, including geometry, two years of algebra and trigonometry or pre-calculus. In addition to the technical courses, the student will take courses in such areas as English composition, psychology, religion, sociology, and economics not only to meet graduation requirements at Ottawa University and the engineering school but, more importantly, to be a liberally educated person.

Special Study Opportunities

A selected number of courses are designed by instructors so that they may be taken by arrangement during a regular enrollment period: fall, spring, or summer. Not all such courses will be available at any given time depending upon the schedule and responsibilities of the faculty member teaching the course. Information about these courses should be obtained from the academic advisor. The following descriptions identify the kinds of special opportunities which are available.

Independent Study. A student who has already demonstrated academic ability in a particular field and who seeks to go beyond the formal courses available at Ottawa University may do so under certain conditions.

A student may request an Independent Study provided:

1. The student has reached junior standing.
2. The student has a cumulative GPA of 3.0 or higher.
3. The student has the consent of the instructor who will supervise the independent study.
4. The supervisor has worked with the student in a prior course or the student has been recommended to the supervisor by another faculty member.
5. The supervisor is a member of the department in which the independent study is a part.
6. The Chairperson of the appropriate department and the Provost approve the request.

The purposes, methods of learning, and evaluation processes for the independent study are explained on a form which can be obtained from the Registrar. The following independent study work has been undertaken in recent years and illustrates the range and variety available for the prepared student: Plant Pathology, Chemical Equilibrium, Personnel Administration, History through Literature, Music Therapy, The Institution of the Presidency, The Philosophy of Death, Coaching Women's Sports, Industrial Psychology, Behavior Modification, Paul's Concept of the Church, Modern Roman Catholic Thought.

Directed Study. Ottawa University acknowledges scheduling conflicts occasionally arise. To facilitate students' progress toward their educational goals, selected courses in the catalog have been designed by instructors to be available for enrollment without the usual frequent classroom meeting schedule. The courses are pre-designed rather than open to a variety of topics as would be the case in Independent Study enrollments. Nevertheless, only students with considerable motivation and self-direction should attempt these courses.

To make Directed Studies a viable option for students

and faculty, the following must be satisfied:

1. The student must have a cumulative GPA of 2.20.
2. All Directed Study courses must start at the beginning of a semester or term, that is, before the last day to add a class.
3. The Directed Study must have the approval of the faculty member involved as well as the student's advisor and the Provost.
4. Directed Studies, like other regularly scheduled classes, should be completed by the end of the term in which they are taken.

Internships. Internships are job-related experiences in which students work in the community and apply concepts, ideas, and techniques learned in the classroom. Internships are available in a number of majors and pre-professional programs, including banking, business, education, health, human services, and pre-law. Internships can be a very valuable part of a student's educational program. Academic credit is available for internships, but the academic credit is not given simply for satisfactory performance in the internship. Students in internships must also produce satisfactory written work demonstrating understanding of concepts, ideas, and techniques in the context of work in the community.

As a general guideline for determining the credit value of a given internship, 40 hours of work over 16 weeks (i.e., an average of 2.5 hours per week) along with the appropriate written and reflective requirements may be given 1 hour of academic credit. Thus an internship that is given 8 hours of academic credit will require the student work on the job for 20 hours/week for a full 16-week semester. Internship courses are designated by the number 410_ _ and 420_ _. Participation in these courses requires an approved contract as well as approval from the academic supervisor of the internship and the student's program advisor.

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Ottawa University is a collegiate institution of study recognized and accredited by the North Central Association of Colleges and Schools.

ACADEMIC CALENDAR DATES*

	1995-1996	1996-1997
Orientation (Sat. - Tues.)	Aug. 19 - 22	Aug. 17 - 20
Fall Registration (Mon., Tues.)	Aug. 21, 22	Aug. 19, 20
First Day of Fall Classes (Wed.)	Aug. 23	Aug. 21
Labor Day	Sept. 4 (no classes)	Sept. 2 (no classes)
Fall Family Weekend	Sept. 19 - Oct. 1	TBA
Stop Day	Oct. 16 (no classes)	Oct. 17 (no classes)
Homecoming	Oct. 28	TBA
Thanksgiving Holiday (Thurs. - Sun.)	Nov. 22 - 26	Nov. 27 - Dec. 1
Fall Semester Ends, Last Day of Classes (Fri.)	Dec. 8	Dec. 6
Fall Final Examinations (Mon.-Wed.)	Dec. 11, 12, 13	Dec. 9, 10, 11
Christmas Holiday	Dec. 14 - Jan. 14	Dec. 12 - Jan. 12
Spring Registration (Mon., Tues.)	Jan. 15, 16	Jan. 13, 14
First Day Spring Classes (Wed.)	Jan. 17	Jan. 15
Spring Break	March 16 - 24	March 15 - 23
Easter Holiday (Fri. - Mon.)	April 5 - 8	March 28 - 31
Last Day of Spring Classes (Fri.)	May 10	May 9
Spring Final Examinations (Mon.-Wed.)	May 13, 14, 15	May 12, 13, 14
Commencement (Sun.)	May 19	May 18

* These dates are tentative and subject to adjustment.

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