The study of English and American literature and language affords outstanding opportunities for both personal satisfaction and pre-professional education suitable to a wide variety of careers. Graduates with an English major may be found in law, journalism, advertising, public relations, publishing, communications, library science, freelance writing, government, business, and education. English study embodies ideals of liberal arts education, and it is particularly useful in helping students to clarify and express their own thoughts as well as to enlarge their abilities to comprehend complex issues. In addition to the departmental major, Ottawa University also offers an English education major and participates in some inter-departmental majors in which literature and language courses are components.

**Required Major Courses:**
36-40 hrs. which include:
- **ENG 110223** Contemporary Literature
- **ENG 20123** World Literature
- **ENG 20323** American Literature I
- **ENG 20423** American Literature II
- **ENG 21923** Major British Writers I
- **ENG 22023** Major British Writers II
- **ENG 31023** Advanced Expository Writing
- **ENG 31723** Minority Literature
- **ENG 31823** Shakespeare Seminar
  or
- **ENG 35123** Seminar in British Literature
- **ENG 32523** The English Language
- **ENG 35023** Seminar in American Literature
- **ENG 40123** Literary Criticism
- **SPH 11023** Speech Preparation and Delivery
- **EDU 30932** Adolescent Literature

**Recommended Courses:** Additional study in psychology, history, drama, philosophy, foreign languages, and participation in theatre, creative writing, and journalism.

**Courses Offered:**
- **ENG 10223 Contemporary Literature** Analytical and reflective reading of contemporary (since 1945) American fiction, poetry, and drama. Attention to developing techniques for critical reading and writing. Basic course for literature majors; study in the humanities, and liberal arts. 3 hrs.
- **ENG 20123 World Literature** Critical readings of timeless and timely works of imaginative literature in translation. Brings students into contact with western traditions. Greek mythology and authors such as Cervantes, Flaubert, Dostoevsky, Tolstoy, Hamsun, Ibsen, Chekhov, Camus, and Garcia Marquez. The course emphasizes skills of perceptive, inferential reading and makes frequent use of the interpretive essay to incorporate insightful response, library research, and group problem solving. 3 hrs.
- **ENG 20323 American Literature I** A survey of important literature from colonial through mid-19th century. Emphasis on key American Renaissance writers: Hawthorne, Melville, Whitman and Dickinson. Alternate years. 3 hrs.
- **ENG 20423 American Literature II** A survey of major literature from late 19th century to 1945. May include such figures as Twain, James, Chopin, Hemingway, Anderson, and Faulkner. Alternate years. 3 hrs.
- **ENG 21923 Major British Writers I** A survey of major British authors from the beginnings through the 18th century. Students examine individual works and their relationship to their historical-cultural contexts. Alternate years. 3 hrs.

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

**Required Certification Courses - Secondary:**
- **ENG 10223** Contemporary Literature
  or
- **ENG 20123** World Literature

*Continued on next page*
ENG 22023 Major British Writers II A survey of major British writers from the 19th century to the modern period. Approaches the works of the various authors in their respective cultural-historical contexts. Alternate years. 3 hrs.

ENG 23723 Intermediate Writing Intensive practice in writing standard English, moving from informal generative techniques to more formal essays. Particular attention to exposition and agreement. Sample essays in the liberal arts tradition function both as models and objects of analysis and for our own writing. LAS 12413 Writing: Freedom and Responsibility or one year of first year composition. 3 hrs.

ENG 31023 Advanced Expository Writing Refinement of students' expository writing skills through analysis of models and through writing practice. 3 hrs.

ENG 31723 Minority Literature The study of works by African-American, Hispanic, Native American, female, and other minority authors specifically to address issues of culture, value, and self-development from the point of view of the minority author. The literature is representative of the critical issues that minorities face in this culture and others. Prerequisite: A Sophomore level English course or instructor consent. Alternate years. 3 hrs.

ENG 31823 Shakespeare Seminar Examines major dramas to discover questions and themes central to individual plays and to the work as a whole. Attention is given to the historical and cultural context of the plays, but the course is primarily concerned with assisting students in reading and exploring the texts. Prerequisite: A Sophomore level English course or consent of instructor. 3 hrs.

ENG 32523 The English Language Treats the history and development of the English language with special attention to grammar, syntax, and phonetics. Various linguistic approaches are applied to the task of understanding the evolution and system of the language. Not designed to treat special problems in speaking or writing English. Only students with appropriate majors or special interest should register. Alternate years. 3 hrs.

ENG 32723 Creative Writing Course develops creative writing skills in writing drama, poetry, and fiction. Development of critical skills is an explicit part of the course as students are encouraged to develop tools to refine their expression. 3 hrs.

ENG 35023 Seminar in American Literature Analysis of major American literature with emphasis on genre, period, or author to gain understanding of the critical approaches necessary to a thorough investigation of literature. Prerequisite: A Sophomore level English course or instructor consent. Alternate years. 3 hrs.

ENG 35123 Seminar in British Literature Analysis of major British literature, with emphasis on genre, period or author, to gain understanding of the critical approaches necessary to a thorough investigation of literature. Prerequisite: A Sophomore level English course or consent of instructor. Alternate years. 3 hrs.

ENG 40123 Literary Criticism Major trends in the history of critical thought from Plato to Derrida. Seeks to discover the position of literary criticism and to apply various critical theories. Library research and writing. Prerequisite: A Junior level English course. Alternate years. 3 hrs.

ENG 40323 Theory of Poetry Students reflect on the poetic mode as it is represented by some of our most important modern writers. Includes work in the craft of poetry, i.e., in analyzing and accounting for the particular structures of poems read. Students write frequent essays in response to course material and library assignments. Prerequisite: A Junior level English course. Alternate years. 3 hrs.

**FRENCH**

Courses Offered:

FRE 10124 Elementary French I Intensive introduction to present day French: basic patterns, pronunciation, beginning vocabulary and idioms. Emphasis designed to develop balanced language skills as needed by a student who pursues an academic program in France or who wants an introduction and appreciation of the language and culture. Laboratory required. Students with previous knowledge of French should consult the instructor as to proper course enrollment. 4 hrs.

FRE 10224 Elementary French II Continuation of basic grammar, refinement of pronunciation, further vocabulary building, systematic practice in comprehension, use of normal conversational patterns, and increased emphasis on reading. Work in language laboratory required. Prerequisite: FRE 10124 Elementary French I or equivalent. 4 hrs.

FRE 20123 Intermediate French I Systematic review of grammar and completion of basic structural patterns with expansion of vocabulary through grammar exercises and limited cultural or descriptive readings. Conversation and translation practice. Prerequisite: FRE 10224 Elementary French II or equivalent. 3 hrs.

FRE 20223 Intermediate French II Completion of review of grammar with supplementary readings. Practice in oral and written composition. Prerequisite: FRE 20123 Intermediate French I or equivalent. 3 hrs.

FRE 35523 Special Topics: Directed readings of French literature and civilization, individually or in small groups. Discussion and written work in French and in English. Prerequisite: FRE 20123 Intermediate French I. 3 hrs.
History is the study of past human activity in all its variety. It is the interpretation of accomplishments and failures. History enables understanding of public events, affairs, and trends of the time. It is the basis of a liberal education since it embraces all facets of human activity from religious and philosophical aspirations to political, social, and economic transactions. History deals with vital contemporary problems, including the interrelationship between society and its environment, issues of war and peace, critical thinking and sound decision making. The study of history enhances basic communication skills, requires the ability to think clearly and critically, and provides one of the few substitutes for direct experience. History majors have become teachers, lawyers, stockbrokers, and doctors, and entered other endeavors which require a broad and disciplined mind. Ottawa University offers a major in both American History and World History.

### American History Emphasis

**Required Major Courses:**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIS 11054</td>
<td>The American Experience</td>
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<tr>
<td>HIS 21854</td>
<td>The American West</td>
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<tr>
<td>HIS 25353</td>
<td>World Civilization I</td>
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<tr>
<td>HIS 25453</td>
<td>World Civilization II</td>
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<tr>
<td>HIS 31654</td>
<td>Twentieth Century America</td>
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<td>HIS 34254</td>
<td>The Civil War</td>
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<tr>
<td>HIS 34354</td>
<td>Seminar in American History and Government</td>
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<td>HIS 34554</td>
<td>The Presidency</td>
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<tr>
<td>PSC 13354</td>
<td>American Government</td>
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**Required Supporting Courses:**

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<th>Course</th>
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<tr>
<td>SPH 11023</td>
<td>Speech Preparation and Delivery</td>
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<tr>
<td>ENG 23723</td>
<td>Intermediate Writing</td>
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<td>or</td>
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<tr>
<td>ENG 31023</td>
<td>Advanced Expository Writing</td>
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<tr>
<td>HIS 30353</td>
<td>World Geography</td>
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<td>MAT 32044</td>
<td>Statistics</td>
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And at least one course in MIS, ECO, SOC, PSY, and REL.

### World History Emphasis

**Required Major Courses:**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIS 11054</td>
<td>The American Experience</td>
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<tr>
<td>HIS 25353</td>
<td>World Civilization I</td>
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<tr>
<td>HIS 25453</td>
<td>World Civilization II</td>
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<tr>
<td>HIS 30353</td>
<td>World Geography</td>
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<tr>
<td>HIS 31454</td>
<td>Russian History</td>
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<td>HIS 35054</td>
<td>Seminar in World History I</td>
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<tr>
<td>HIS 35154</td>
<td>Seminar in World History II</td>
</tr>
<tr>
<td>HIS 36054</td>
<td>Asian History</td>
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**Courses Offered:**

**HIS 11054 The American Experience.** Introduction to the study of American history and its cultural, intellectual, political, economic, religious, racial, and diplomatic topics. Emphasis is placed upon development of the country from discovery through Reconstruction. Fall semester, 4 hrs.

*Continued on next page*
HIS 21052 Kansas History and Politics A study of the settlement and development of Kansas from the time of Coronado's travels to the present. The student is introduced to the study of Kansas government. Keyed to students seeking teaching certification. Spring semester. 2 hrs.

HIS 21854 The American West. Westward expansion as a key to the character of America. Use of primary sources and regional and local materials is encouraged. Prerequisite: One course in history or consent of the instructor. Even numbered years, spring semester. 4 hrs.

HIS 25353 World Civilization I. The beginnings and development of human culture and institutions, western and non-western. A basic introduction to historical study. Fall semester. 3 hrs.

HIS 25453 World Civilization II. The development of civilization, western and non-western, in the modern era. An analysis of the political, economic and cultural revolutions that have created contemporary culture and its tensions. Spring semester. 3 hrs.

HIS 30353 World Geography. An introduction to the study of geography. Learning of the earth's natural resources as a limiting and conditioning influence upon the development of human culture and as a source of political and economic power. Study of developing environmental problems in the world and attempts to address those problems. 3 hrs.

HIS 31454 Russian History. A study of Russia with emphasis upon the Tsarist and Communist periods and the period since 1991. Prerequisite: HIS 25353 World Civilization I or HIS 25453 World Civilization II. Even numbered years, fall semester. 4 hrs.

HIS 31654 Twentieth Century America. A study of the political, social, intellectual, and other aspects of American civilization in this century. Special emphasis is placed on the nation since 1945. Prerequisite: One course in American history. Fall semester. 4 hrs.

HIS 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, offered during the spring semester. Prerequisite: Junior or senior standing and one course in history. 4 hrs.

HIS 34354/34454 Seminar in American History and Government I/II 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 HIS or PSC. Prerequisites: Junior or senior standing and one course in history or political science. Even numbered years, spring semester. 4 hrs.

HIS 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. Prerequisites: Junior or senior standing and one course in history. Offered every four years (presidential year), spring semester. 4 hrs.

HIS 35054 Seminar in World History I A selection of readings and topics in world history. Common theme, assigned readings, and individual projects. Inquire in advance for information on assigned topics. Prerequisites: Junior or senior standing and a course in history or political science. Even numbered years, fall semester. 4 hrs.

HIS 35154 Seminar in World History II A selection of readings and topics in world history. Common theme, assigned readings, and individual projects. Inquire in advance for information on assigned topics. Prerequisites: Junior or senior standing and one course in history or political science. Odd numbered years, fall semester. 4 hrs.

HIS 36054 Asian History A study of the major nations of Asia, with special emphasis upon modern development and economic, social, and cultural factors. Prerequisite: HIS 25353 World Civilization I or HIS 25453 World Civilization II. Even numbered years, spring semester. 4 hrs.
The Human Services major is designed for those who plan to commit their professional lives to serving people. The HUS program is developed through the guidance of the National Organization for Human Services Education to meet the demands for skills and knowledge by professionals in the field. Major course work includes classes focusing on skills, knowledge and values of the profession. In addition, the major requires a solid foundation in the liberal arts which emphasizes the need to think critically about issues and diversity in our world. Students are required to consider and select a focus area within Human Services such as advocacy, children and families, corrections, gerontology, or mental health. An internship requirement provides students with educationally focused opportunities that integrate academic content with field experience. Internship provides a valuable learning experience while preparing students to make significant contributions to the community and to those with whom they work.

Students in Human Services are preparing for careers in private and public sectors such as, but not limited to: welfare agencies, church ministries, community development programs, youth and adult group homes, nursing homes, senior centers, retirement centers, poverty assistance programs, governmental agencies, law enforcement agencies, courts and probation offices and community correction programs.

**Focus Area (one required)**

**Advocacy**
- HUS 20153 Issues in Child Welfare
- HUS 25553 Special Topics: Advocacy

**Children and Families**
- HUS 20153 Issues in Child Welfare
- SOC 30753 Human Sexuality

**Corrections**
- HUS 20153 Issues in Child Welfare
- SOC 40753 Sociology of Deviance

**Gerontology**
- HUS 30153 Issues in Gerontology
- HUS 30953 Death and Dying

**Mental Health**
- HUS 25553 Special Topics: Case Management
- SOC 40753 Sociology of Deviance

Other focus areas can be created and approved by the Social Sciences Department.

**Required Major Courses:**
- HUS 20553 Social Welfare: Introduction to Human Service
- HUS 21253 The Family
- HUS 30253 Social Policy and the Community
- HUS 40053 Methods Seminar - Human Services Practice
- HUS 4105_ Internship in Human Services
- HUS 4205_ Internship in Human Services

Minimum requirement for internship is 8 academic credit hours.

**Required Supporting Courses:**
- ENG 23753 Intermediate Writing
- or
- ENG 31023 Advanced Expository Writing
- PHL 31023 Ethics and Society
- PSY 12053 Principles of Psychology
- PSY 30353 Psychology of Abnormal Behavior
- PSY 32353 Developmental Psychology
- SOC 10453 Introduction to Sociology
- SOC 25553 Special Topics in Sociology
- SOC 30653 Ethnic Relations and Multiculturalism

**Recommended Courses:**
- EDU 20833 Children's Literature
- EDU 31133 Psychology of Exceptional Child
- ENG 23723 Intermediate Writing
- ENG 31053 Advanced Expository Writing
- ENG 31723 Minority Literature
- HIS 25453 World Civilization II
- MAT 32044 Statistics
- MIS 32044 Introduction to Computers
- MUS 10323 Jazz in America
- OAD 30563 Management
- PAC 11231 Nontraditional Team Sports I
- PED 21433 Introduction to Nutrition
- PHL 11023 Basic Issues in Philosophy
- PSC 13354 American Government
- PSY 32253 Research Design and Analysis
- SOC 26053 Cultural Anthropology
- SOC 30753 Human Sexuality
- THE 11421 Applied Theatre
- SPA 10124 Elementary Spanish I
- SPH 11023 Speech Preparation and Delivery

*Continued on next page*
Courses Offered:

**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 by children and families. Prerequisites: SOC 10453 Introduction to Sociology or PSY 12053 Principles of Psychology. Alternate years. 3 hrs.

**HUS 20553 Social Welfare: Introduction to Human Services** An overview of the human services profession and the social welfare system. Examines the historical developments of human services and social welfare and the knowledge, values, and skills required to function in the role of a human services worker. Allows students to evaluate their strengths as potential human services professionals. An introduction to field experience is included. Prerequisites: SOC 10153 Social Thought, or SOC 10453 Introduction to Sociology or PSY 12053 Principles of Psychology. 3 hrs.

**HUS 21253 The Family** Explores the historical, anthropological, 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 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 30253 Social Policy 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, teenage pregnancy, inequality or a problematic services delivery system. Topics in applied social research and social policy are introduced. Prerequisites: HUS 20553 Social Welfare: Introduction to Human Services, SOC 10453 Introduction to Sociology and PSY 12053 Principles of Psychology. 3 hrs.

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

**HUS 40053 Methods Seminar in Human Services Practice** Identifies basic skills for different settings in which helpers work. Describes an array of human services intervention strategies. Particular focus on how to interview and/or counsel clients. Makes students aware of both the technology and the art of human services practice. Prerequisites: HUS 20553 Social Welfare: Introduction to Human Service, HUS 30253 Social Policy 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 field experience is required of HUS majors. Prerequisites: HUS 30253 Social Policy and the Community, PSY 32353 Developmental Psychology, SOC 30653 Ethnic Relations and Multiculturalism, and consent of the instructor.
The major in Management Information Systems is designed to prepare students to assume management-oriented positions within information systems departments of business organizations. This preparation includes the basic concepts and principles of management, skills in analysis and problem-solving, and technical competence in the administration and distribution of information across networks.

**Required Major Courses:**
- OAD 30563 Management
- OAD 30663 Behavior in Organization
- OAD 31863 Marketing
- OAD 42564 Strategies and Policies
- MIS 27163 Introduction to Operating and Database Systems
- MIS 30163 Database Management
- MIS 42263 Networking
- MIS 48064 Management of Information Systems

**Required Supporting Courses:**
- ACC 20364 Accounting for Business Operations
- ACC 30464 Accounting for Financing and Investing Activities
- ECO 20163 Microeconomics
- ECO 20263 Macroeconomics
- MAT 10643 College Algebra
- MAT 32044 Statistics

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

- MIS 12063 Introduction to Computers
- MIS 27163 Introduction to Operating and Database Systems
- MIS 30163 Database Management
- MIS 42263 Networking

**Courses Offered:**
- MIS 12063 Introduction to Computers Windows-based software, including word processing, spreadsheets, and databases with inclusion of graphic images. Overview of operating systems and graphical user interfaces. 3 hrs.
- MIS 16163 Computer Programming An overview of computer programming languages, including PASCAL, COBOL, and Visual Basic. Topics include I/O techniques, general rules, and structured programming methodology. Prerequisite: MIS 12063 or consent of instructor. 3 hrs.
- MIS 27163 Introduction to Operating and Database Systems Basic concepts of database systems, including models, file processing, SQL, design, normalization, and the use of DBMS to support information needs of a business organization; and an introduction to operating systems, including microcomputer and minicomputer. Prerequisites: MIS 12063 Introduction to Computers and MIS 16163 Computer Programming. 3 hrs.
- MIS 30163 Database Management The design, development, and administration of large-scale database applications appropriate to the needs of business organizations. Prerequisite: MIS 27163 Introduction to Operating and Database Systems or consent of instructor. 3 hrs.
- MIS 42263 Networking An overview of the ISO model, network topology, physical networks, error control, transmission and multiplexing, local and wide-area networks (including the Internet and intranets), network security, and network operating systems. Prerequisite: MIS 27163 Introduction to Operating and Database systems or consent of instructor. 3 hrs.
- MIS 45563 Topics in Computer Information Systems Selected topics in computer applications, such as additional programming languages, graphic design, and use of computers in education, etc. Prerequisite: Consent of instructor. 3 hrs.
- MIS 48064 Management of Information Systems Critical examination of information systems which support management decision making and problem solving. Topics include information systems management, data processing systems, decision support systems, office automation, expert systems and organizational information systems. Prerequisites: ACC 20364 Accounting for Business Operations, MIS 30163 Advanced Database Systems, MIS 42263 Networking, OAD 30563 Management, and OAD 30663 Behavior in Organizations. 4 hrs.
The study of mathematics, the most universal of all sciences, can build the foundation for a future in many fields. Providing training in logic and problem solving, a mathematics major can be applied to a wide range of possible careers, from computer science to teaching, from actuarial science to psychology. Recent Ottawa graduates hold positions including university professor, bank loan officer, and high school mathematics teacher and coach. Ottawa's program provides the tools for a wide range of practical problem solving and offers the modern computer facilities required by today's mathematicians.

Ottawa University divides the mathematics major into different emphases to help tailor course work to career goals. The emphases are described below.

**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 31144 Mathematical Statistics
- MAT 33043 Differential Equations
- MAT 42043 Abstract Algebra
- MAT 43443 Numerical Methods
- MAT 45043 Introduction to Real Analysis

**Required Supporting Courses:**
- MIS 16163 Computer Programming
- ACC 20364 Accounting for Business Operations

**Recommended Courses:**
- ECO 20163 Macroeconomics
- ECO 20263 Microeconomics
- ECO 21663 Investments
- ACC 20463 Accounting for Financing and Investments
- OAD 30563 Management
- OAD 31063 Business Law
- OAD 31863 Marketing

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

**Required Certification Courses—Secondary:**
- MAT 20043 Discrete Mathematics
- MAT 21043 Calculus I
- MAT 21144 Calculus II
- MAT 22043 Linear Algebra
- MAT 26043 College Geometry
- MAT 31044 Multivariable Calculus
- MAT 31144 Mathematical Statistics
- MAT 33043 Differential Equations
- MAT 42143 Abstract Algebra
- MAT 43443 Numerical Methods
- MAT 45043 Introduction to Real Analysis

**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, either high school algebra or college beginning level. 3 hrs.
- MAT 10643 College Algebra 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 consent of instructor. 3 hrs.
- MAT 11143 Precalculus 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.

Continued on next page
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.

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 a derivative and an integral with basic techniques and applications to elementary functions. Emphasis on intuitive understanding and theorem application. Prerequisite: MAT 11143 Precalculus, or equivalent. 4 hrs.

MAT 21144 Calculus II Integration techniques and applications of derivatives and integrals 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 consent of 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 21144 Calculus II, recommended MAT 22043 Linear Algebra. 4 hrs.

MAT 31143 Mathematical Statistics Axioms and elementary theorems of probability, random variables, probability distributions, expectation, mean, variance, moment generating functions of probability distributions, multivariate distributions, central limit theorem. Designed to prepare student to take the actuarial exam in probability and statistics. Prerequisite: MAT 31044 Multivariable Calculus or consent of instructor. 3 hrs.

MAT 32044 Statistics Provides an introduction to the basic methods of research design and analysis of data, including both descriptive and inferential statistics. Prerequisites: MAT 10443 Intermediate College Algebra and PSY 12053 Principles of Psychology or ECO 20163 Macroeconomics or SOC 10453 Introduction to Sociology. 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. The historical development of the subject and applications to problems in the sciences are studied. Prerequisite: MAT 31044 Multivariable Calculus. 3 hrs.

MAT 42143 Abstract Algebra Study of groups, rings and fields. The isomorphism theorems are covered. Applications to polynomial equations and number theory are considered. Prerequisite: MAT 21143 Calculus II. 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 45143 Introduction to Real Analysis 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 University 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.

Courses in the music curriculum are designed to aid music students 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.

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

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 information concerning these curriculum options.

**Applied Music Emphasis**

**Required Major Courses:**

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUS 10423</td>
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<tr>
<td>MUS 15124</td>
<td>Styles I</td>
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<td>MUS 15224</td>
<td>Styles II</td>
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<tr>
<td>MUS 22224</td>
<td>Styles III</td>
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<tr>
<td>MUS 22324</td>
<td>Styles IV</td>
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<tr>
<td>MUS 49023</td>
<td>Research and Performance</td>
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</table>

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:**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUS 10423</td>
<td>Introduction to Music</td>
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</tbody>
</table>

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

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

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<tr>
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<td>MUS 15124</td>
<td>Styles I</td>
</tr>
<tr>
<td>MUS 13121</td>
<td>Trumpet/Horn Class</td>
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<tr>
<td>MUS 13221</td>
<td>Clarinet/Double Reed Class</td>
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<tr>
<td>MUS 13321</td>
<td>Violin/Viola</td>
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<tr>
<td>MUS 13421</td>
<td>Percussion/Instrument Repair</td>
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<tr>
<td>MUS 13521</td>
<td>Trombone/Tuba Class</td>
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<tr>
<td>MUS 13621</td>
<td>Flute/Saxophone Class</td>
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<td>MUS 13721</td>
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<tr>
<td>MUS 22324</td>
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<tr>
<td>MUS 24523</td>
<td>Elementary Music Methods</td>
</tr>
<tr>
<td>MUS 32123</td>
<td>Instrumental Conducting, Methods and Literature</td>
</tr>
<tr>
<td>MUS 32223</td>
<td>Choral Conducting, Methods, &amp; Literature</td>
</tr>
<tr>
<td>MUS 34723</td>
<td>Secondary Music Methods</td>
</tr>
<tr>
<td>MUS 49023</td>
<td>Research and Performance</td>
</tr>
</tbody>
</table>

And participation in applied music each semester, participation in an ensemble each semester, demonstration of piano proficiency, and senior recital.

**Music Therapy Certification Emphasis**

Teacher certification courses (see above) prepare students for further studies in Music Therapy at the University of Kansas or University of Missouri at Kansas City.

**Applied Music Courses:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUS 16121</td>
<td>Applied Piano</td>
</tr>
<tr>
<td>MUS 16221</td>
<td>Applied Voice</td>
</tr>
</tbody>
</table>

Continued on next page
MUS 16321 Applied Organ
MUS 16421 Applied Brass
MUS 16521 Applied Percussion
MUS 16621 Applied Strings
MUS 16721 Applied Woodwinds

Ensembles:
MUS 17221 University Concert Choir A 40-member select choir that performs for official University events throughout the school year. Audition required. 1 hr.
MUS 17321 University Ringers A five-octave English handbell ensemble. Performs frequently. 1 hr.
MUS 17421 Oratorio Choir A non-auditioned 30 to 60 member choir comprised of students and community vocalists that performs an oratorio during the spring semester of each academic year. 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 perform 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.

Courses Offered:
MUS 10223 Popular Music in America An introduction to the history of popular music 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 10321 Singing Techniques Development of vocal performance skills, rudimentary music reading skills, and understanding of terminology related to vocal performance. 1 hr.
MUS 10423 Introduction to Music Development of an understanding and enjoyment of music, emphasizing the aural approach and analyzing the sounds that are applicable to all music styles. 3 hrs.
MUS 12922 Class Piano I Required of all first-year music students (unless proficiency in piano is demonstrated), and open to beginning piano students. Course focuses on the rudiments of music notation, scales and beginning keyboarding technique. Emphasis on preparation for Music Styles curriculum. 2 hrs.

MUS 13022 Class Piano II Continuation of MUS 12922 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 an understanding of terminology related to brass instruments. Various methodologies employed and discussed. Trumpet and trombone emphasized. 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. Flute, clarinet, and saxophone emphasized. 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, discussed. Violin emphasized. 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 of trombone and tuba techniques and pedagogy. Includes development of performance skills and understanding of terminology related to woodwind instruments. Various methodologies employed and discussed. 1 hr.
MUS 13621 Flute/Saxophone Class Develops 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.
MUS 15124 Styles I Investigates the principles of voice leading, root position, 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. 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

Continued on next page
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 MUS 13022 Class Piano II, or consent 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 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 consent of instructor. 4 hrs.

MUS 22224 Styles III Studies of secondary chord functions, modulation, mode mixture, the Neapolitan chord, and augmented sixth chords. An assessment of form and further developments of multimovement forms and 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 instructor consent. 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, neoclassicism, serialism, electronism, and minimalism. 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 consent of instructor. 4 hrs.

MUS 22823 Church Music 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 worship performances. 3 hrs.

MUS 23823 Hymnology Musicians and prospective church leaders study 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 24522/3 Elementary Music Methods Designed for majors and non-majors. Examination of sequential materials and methods appropriate for K-8 teaching. Multiculturalism explored. Various methodologies are introduced providing students opportunities to experience movement, rhythm and creative improvisation. Elementary education students experience concepts for integrating music in the total classroom. Performance skills in singing, playing percussion instruments and the recorder are emphasized. 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 and 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 Culminates applied music studies. An independent research course leading to final competency projects that include presentation of senior recital and preparation of program notes, it is a major component of the comprehensive. Prerequisite: MUS 22324 Styles IV. 3 hrs.
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.
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. Each student majoring in physical education must complete one of these emphases as listed below.

- The teacher certification emphasis is designed to prepare students for teaching in traditional educational (K-12) settings.
- The health and fitness emphasis is designed to prepare students for implementing physical fitness or for graduate study in fitness and/or exercise physiology.
- The recreation emphasis is designed to prepare students for teaching and leadership roles in private and/or public recreational programs.

### Health/Fitness Emphasis

**Required Major Courses:**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
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<td>PAC 10131</td>
<td>Coed Weight Training</td>
</tr>
<tr>
<td>PAC 11131</td>
<td>Lifetime Fitness</td>
</tr>
<tr>
<td>PED 10433</td>
<td>Personal and Community Health</td>
</tr>
<tr>
<td>PED 10732</td>
<td>First Aid</td>
</tr>
<tr>
<td>PED 11133</td>
<td>History &amp; Principles of Health, Physical Education and Recreation</td>
</tr>
<tr>
<td>PED 20533</td>
<td>Care and Prevention of Athletic Injuries</td>
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<tr>
<td>PED 30233</td>
<td>Psychology and Sociology of Sports</td>
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<tr>
<td>PED 30333</td>
<td>Advanced Athletic Training</td>
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<tr>
<td>PED 32533</td>
<td>Kinesiology</td>
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<tr>
<td>PED 33532</td>
<td>Adaptive Physical Education</td>
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<tr>
<td>PED 34533</td>
<td>Exercise Physiology</td>
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<tr>
<td>PED 41733</td>
<td>Theory of Administration-Health, Physical Education and Recreation</td>
</tr>
<tr>
<td>PED 4103</td>
<td>Internship in Physical Education (3-16 hrs.)</td>
</tr>
</tbody>
</table>

**Recommended Courses:**

ACC 20364 Accounting for Business Operations
MIS 12043 Introduction to Computers
EDU 31133 Psychology of Exceptional Child
PAC 10831 Beginning Swimming
PAC 11031 Advanced Swimming
PED 31833 Recreational Leadership

Additional courses in BIO, CHE, SOC, PSY, and/or OAD.

### Recreation Administration Emphasis

**Required Major Courses:**

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<td>PAC 10831</td>
<td>Beginning Swimming</td>
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<tr>
<td>PAC 11031</td>
<td>Advanced Swimming</td>
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<tr>
<td>PAC 11931</td>
<td>Lifeguarding</td>
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<tr>
<td>PAC 11231</td>
<td>Nontraditional Team Sports I</td>
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<tr>
<td>PAC 11331</td>
<td>Folk and Square Dance</td>
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<tr>
<td>PAC 1_3</td>
<td>One additional PAC</td>
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<tr>
<td>PED 10732</td>
<td>First Aid</td>
</tr>
<tr>
<td>PED 11133</td>
<td>History and Principles of Health, Physical Education and Recreation</td>
</tr>
<tr>
<td>PED 20533</td>
<td>Care and Prevention of Athletic Injuries</td>
</tr>
<tr>
<td>PED 24733</td>
<td>Teaching Spring Sports</td>
</tr>
<tr>
<td>PED 30032</td>
<td>Elementary and Secondary Rhythms and Dance</td>
</tr>
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<td>PED 30233</td>
<td>Psychology and Sociology of Sports</td>
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<td>PED 30833</td>
<td>Elementary Physical Education Methods</td>
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<tr>
<td>PED 41733</td>
<td>Theory of Administration-Health,</td>
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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
or
SPH 11023 Speech Preparation and Delivery
ENG 23723 Intermediate Writing
or
ENG 31023 Advanced Expository Writing
OAD 30563 Management
OAD 31863 Marketing
PSY 12053 Principles of Psychology
And one coaching methods class.

Recommended Courses:
ART 20222 Elementary Art Methods
MIS 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 current requirements.

Required Courses for Major:
PAC 10131 Coed Weight Training
PAC 11131 Lifetime Fitness
PAC 11231 Nontraditional Team Sports I
PAC 10831 Beginning Swimming
PAC 11031 Advanced Swimming
or
PAC 11931 Lifeguarding
Two additional PAC's
PED 10433 Personal and Community Health
PED 10732 First Aid
PED 11133 History and Principles of Health, Physical Education and Recreation
PED 20533 Care and Prevention of Athletic Injuries
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

Required Supporting Courses:
BIO 10043 Principles of Biology
BIO 10042 Principles of Biology Lab
BIO 20353 Human Anatomy and Physiology
BIO 20352 Human Anatomy and Physiology Lab

National Athletic Trainers Association Certification Program:
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 Care and Prevention of Athletic Injuries
PED 30333 Advanced Athletic Training
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.
- provide proof of graduation in the form of an official transcript from an accredited college or university in the United States of America.
- provide proof of current American Red Cross Standard First Aid Certification and current Basic CPR (American Red Cross or American Heart Association). EMT accepted.
- complete certification application signed by a NATA Certified Athletic Trainer.
- pass the NATA Certification examination (oral, practical, written, and practical simulation).
- student must be supervised by a NATA Certified Athletic trainer. This must be completed over a minimum of two years but not more than five years.

For information concerning additional requirements inquire at the Physical Education Department Office.
Continued on next page
Physical Activity Courses:
Offered, based on availability of instructors with the expertise to teach them. Classes focus on skills, strategies, rules, and drills and/or games directly related to the specific activities.

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. Development of skills and knowledge necessary for successful play in singles and doubles. Students provide their own racket and tennis balls. 1 hr.

PAC 10331 Body Conditioning The principles and techniques of strength and cardiovascular training. 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/Pickleball An understanding of the rules that govern play in singles, doubles, and cutthroat. Development of skills and techniques necessary for successful play and strategies important at all levels of competition. Students provide: racket, eye protectors, 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 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 Kunithe. 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 10931 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 10831 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 variety of health-related aerobic activities designed to help develop a fitness program. 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 that rely on basic fundamental skills, including such games as ultimate frisbee, earthball, flickerball, and Olympic team handball. 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 Active participation in beginning level folk and square dances. The concepts of responsible group membership, group dynamics, and social interaction are explored. 1 hr.

PAC 11431 Intermediate Karate A continuation of PAC 10931 Karate. Actual ranking is allowed; at the end of PAC 11431 Intermediate Karate the student is considered a full yellow belt. 1 hr.

PAC 11631 Nontraditional Team Sports II Participation in activities to generate further realizations about group process, responsible group membership, and moral and ethical behavior. A journal and reading assignments are included. 1 hr.

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

PAC 11831 Bowling Students learn the fundamental skills of bowling, including push away, approach, arm swing, and delivery. Spot bowling and use of the hook are stressed. Students participate in a handicap league learning to calculate their averages and handicaps as well as proper bowling etiquette. A fee for use of the lane must be paid by student (see course schedule for appropriate fee). 1 hr.

PAC 11931 Lifeguarding A certification class delivered through the American Red Cross. For certification in professional CPR, First Aid and Lifeguarding the student must be in attendance for all classes. 1 hr.

PAC 12131 Walking for Fitness Results in improved cardiorespiratory endurance. Students gain knowledge of how walking prepares them for a lifetime of physical fitness. 1 hr.

PAC 12231 Triathlon Activities Proper training and coaching related to the triathlon activities of swimming, cycling, and running. Design a training program relevant to triathlon competition and an understanding of how triathlon activities can contribute to a lifetime of physical fitness. 1 hr.

Physical Education Courses:
PED 10432 Personal and Community Health A study of personal hygiene and community health with a view to favorably influencing habits, attitudes, and knowledge relating to individual and community health. 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. Course fee required. First Aid and CPR certification. 2 hrs.


Continued on next page
PED 20533 Care and Prevention of Athletic Injuries 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 21443 Introduction to Nutrition A study of the fundamental principles of nutrition. The nutritional requirements of the human are discussed for the major segments of the life span. Interrelationship of various nutrients is also discussed. Prerequisite: BIO 10043 Principles of Biology or CHE 10044 Concepts of Chemistry or equivalent. 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.

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. 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. Special attention given to methods of teaching rhythms and dance. Prerequisite: PED 30833 Elementary Physical Education Methods or consent of 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 Advanced Athletic Training Detailed study of athletic injuries including physiology of injuries, theories of rehabilitation, and the use of various modalities in treating athletes. Discuss current issues in sports. Prerequisite: PED 20533 Care and Prevention of Athletic Injuries. 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 consent of instructor. 3 hrs.

PED 33532 Adaptive Physical Education The study of physical education adapted to those whose physical inadequacy or functional deficit 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 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 non-athletic population groups. Prerequisites: BIO 10043 Principles of Biology and Lab and BIO 20343 Human Anatomy and Physiology and Lab or consent of 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 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.
Courses Offered:

PHY 11043 Physical Science Basic method and principles of physical science, examining selected concepts in physics, chemistry, geology and astronomy, with emphasis on relating fundamental physical laws to current environmental and social issues. 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 11143 Precalculus. 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 structure, 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 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 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
- HIS 34254 The Civil War
- PSC 34354 Topics in American History and Government
- HIS 11054 The American Experience
- HIS 25353 World Civilization I or
- HIS 25453 World Civilization II
- HIS 31654 Twentieth Century America

**Required Supporting Courses:**
- MAT 32044 Statistics
- SPH 11023 Speech Preparation and Delivery
- ENG 23723 Intermediate Writing or
- ENG 31023 Advanced Expository Writing
And at least one course from MIS, ECO, SOC, and PSY.

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

**Required Certification Courses - Secondary**
Combination programs in Social Studies: See Teacher Education Handbook.

- HIS 11054 The American Experience
- HIS 21052 Kansas History and Politics
- HIS 25353 World Civilization I or
- HIS 25453 World Civilization II
- HIS 30353 World Geography
- HIS 31654 Twentieth Century America
- HIS 34354 Seminar in American History and Government I or
- HIS 34454 Seminar in American History and Government II
- HIS 35054 Seminar in World History I or
- HIS 35154 Seminar in World History II
- PSC 13354 American Government
- PSC 22454 World Political Communities or
- PSC 33254 International Relations
- PSC 32254 Political Parties
- SOC 10453 Introduction to Sociology or
- SOC 26053 Cultural Anthropology
- SOC 30653 Ethnic Relations and Multiculturalism
- BIO 30643 Environmental Biology
- MAT 32044 Statistics

**Courses Offered:**
**PSC 13354 American Government** An introduction to American government; philosophy, structure, and operation. Study of the performance and problems of American government with emphasis on the question of the citizen's knowledge, role and responsibility. Spring semester. Fall semester, even numbered years. 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 consent 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 consent of the 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 consent of the 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. Prerequisites: Junior or Senior standing and one course in political science. 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. Prerequisites: Junior or Senior standing and one course in political science. Even numbered years, 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 for understanding and working with people in a variety of professional and paraprofessional applications.

**Required Major Courses:**

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<tr>
<td>PSY 11053</td>
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<td>PSY 12053</td>
<td>Principles of Psychology</td>
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<td>PSY 32153</td>
<td>Social Psychology</td>
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<td>PSY 32253</td>
<td>Research Design and Analysis</td>
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<td>PSY 30153</td>
<td>Theories of Personality</td>
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<td>PSY 30353</td>
<td>Psychology of Abnormal Behavior</td>
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<td>PSY 30853</td>
<td>History and Systems of Psychology</td>
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<td>PSY 32353</td>
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<td>PSY 33453</td>
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<td>PSY 40553</td>
<td>Counseling Theories and Dynamics</td>
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<td>PSY 4105</td>
<td>Internship in Psychology</td>
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<td>BIO 20343</td>
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<td>COM 30163</td>
<td>Interpersonal Communications</td>
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<td>MIS</td>
<td>A course in computer applications</td>
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<td>HUS 21253</td>
<td>The Family</td>
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<td>HUS 30953</td>
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<td>MAT 10643</td>
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<td>MAT 11043</td>
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<td>PHL 11023</td>
<td>Basic Issues in Philosophy</td>
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<td>PHL 21723</td>
<td>Introduction to Logic</td>
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<td>SOC 10153</td>
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<td>SOC 11753</td>
<td>Social Problems and American Values</td>
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<td>SOC 26053</td>
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<td>Human Sexuality</td>
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<td>SPH 11023</td>
<td>Speech Preparation and Delivery</td>
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**Courses Offered:**

**PSY 11053 Personal Growth** Focuses on the personal dynamics and psychosocial processes involved in self-actualization, using a theoretical and experiential approach. Opportunities to participate in small group exercises and to explore 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 or SOC 10453 Introduction to Sociology. 3 hrs.

**PSY 30153 Theories of Personality** Emphasis on the psychoanalytic, behavioristic, and humanistic theories of personality development. Included in these studies are the theories of Freud, Jung, Adler, Harney, Fromm, Kelly, Rogers, Maslow, Dollard & Miller, Skinner, Erikson, Allport, Cattell, and Bondura. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

**PSY 30353 Psychology of Abnormal Behavior** Study of the biological, psychological, and sociocultural influences contributing to abnormal behavior patterns. Includes history, etiology, diagnosis and treatment of various psycho-pathological disorders. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

**PSY 30853 History and Systems of Psychology** A review of the historical antecedents of contemporary psychology. Includes Structuralism, Functionalism, Behaviorism, Gestalt and the psychoanalytic approach. Prerequisite: PSY 12053 Principles of Psychology. 3 hrs.

**PSY 32253 Research Design and Analysis** A review of basic research methods in the social sciences ranging from a focus on the quantitative, experimental research to qualitative, naturalistic inquiry. Includes basic design components such as control, sampling, data collection and analysis. Prerequisites: PSY 12053 Principles of Psychology or SOC 10453 Introduction to Sociology and MAT 32044 Statistics. 3 hrs.

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

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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. 3 hrs.

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. Includes dynamics which contribute to an effective therapeutic approach. Prerequisites: PSY 12053 Principles of Psychology, PSY 30153 Theories of Personality or PSY 30353 Psychology of Abnormal Behavior. 3 hrs.

PSY 4105/4205 Internship in Psychology Taken for 1 to 8 hours of academic credit. Students acquire practical experience in their major area of interest. Arranged individually. Usually taken after completion of major courses.

RELIGION

The religious dimension of life and faith is part of the total Ottawa 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.

Some students may study religion to prepare for church vocations. Others study religion because of the value received for individual development and growth of human and personal understanding.

Religion courses may be combined advantageously with the study of philosophy and other areas of the liberal arts. Programs can be developed through the use of the option of the individualized major.

Courses Offered:

REL 11123 Introduction to the Old Testament History of the Hebrew nation. Prophetic literature in its relation to the Christian tradition. 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 A study of some of the more significant themes of Christian thought today, both traditional concepts and contemporary developments in religion with emphasis on one's personal interaction. 3 hrs.

REL 32923 Contemporary Issues in Biblical and Theological Studies Examination of key issues relating to Biblical literature. Includes historical uniqueness of Biblical faith, reliability of the Biblical record, the historical Jesus, and interpretation and authority of the Bible. 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 various historical approaches to the life and ministry of Jesus. Prerequisite: REL 11223 Introduction New Testament, or consent 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 New Testament, or consent of the instructor. 3 hrs.

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 Course:

REL 11323 Contemporary American Religious Groups
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 develops 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 for data gathering and interpretation to explain social behavior. These abilities prepare students for graduate study or 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.

**Anthropology Emphasis**

**Required Major Courses:**
SOC 10153 Introduction to Sociology
SOC 26053 Cultural Anthropology
SOC 25554 Special Topics
SOC 32253 Research Design and Analysis
SOC 40753 Sociology of Deviance
SOC 40854 Field Research

**Required Supporting Courses:**
ART 20623 Art History I
BIO 31143 Field Ecology
ENG 31723 Minority Literature
FRE 10124 Elementary French
SPA 10124 Elementary Spanish
HIS 25353 World Civilization I
HIS 25453 World Civilization II
PSY 32153 Social Psychology
REL 33823 World Religions

**Recommended Courses:**
MIS 20043 Database Systems
PSC 13354 American Government

**Courses Offered:**

**SOC 10153 Social Thought** Focus through the sociological perspective on concepts fundamental to the existence of society. Covers historical development and contemporary manifestation of ideas including freedom, inequality, ethnocentrism, belief, and individual responsibility as they relate to culture in the U. S. 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 U.S. culture, 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** 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 Special Topics in Sociology** Allows students to focus on specific topics and research skills. Focus area

*Continued on next page*
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 and MAT 32044 Statistics. 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 consent of instructor. Prerequisite: SOC 30653 Ethnic Relations and Multiculturalism. 3 hrs.

**SOC 40854 Field Research** Application of social science methods to a research question identified by the student in consultation with the instructor. Prerequisites SOC 32253 Research Design and Analysis and SOC 30653 Ethnic Relations and Multiculturalism. 4 hrs.
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 of class. 4 hrs.

SPA 10224 Elementary Spanish II and Lab Continuation of Elementary Spanish I. 4 hrs.

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 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 20223 Debate and Forensics Principles of argumentation and practice in debate techniques with 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: SPH 11023 Speech Preparation and Delivery. Alternate years. 3 hrs.

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 contemporary 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. Consent of instructor. Alternate years. 3 hrs.

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

Certification Requirements

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
COM 21163 Broadcast Journalism
COM 30163 Interpersonal 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 Debate and Forensics
THE 20023 Acting I
SPH 22023 Debate and Forensics
SPH 20523 Oral Interpretation
THE 40624 Directing
THE 41023 Theatre Practicum

Also see Communication.
Dramatic literature, technical theatre and design, theatrical performance, and appreciation of the fine arts are at the core of the liberal arts education. The theatre program is designed to meet the needs of both the liberal arts education and the major. The theatre program gives students a knowledge of theatre and 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, and 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 Performance Emphasis

Required Major Courses:

SPH 10823 Voice and Diction
SPH 20523 Oral Interpretation
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 4202_ Theatre Practicum (1-3 hrs.)
or
THE 4902 _ Performance Comprehensive (1-3 hrs.)

Applied Theatre is taken each semester except while enrolled in Theatre Practicum or Performance Comprehensive.

Required Supporting Courses:

ENG 31823 Shakespeare Seminar
MUS 16221 Applied Voice
MUS 1_21 Singing Techniques
PSY 12053 Principles of Psychology

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

Certification Requirements

COM 10063 Survey of Mass Communications
SPH 10823 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 4202_ Theatre Practicum (1-3 hrs.)
or
THE 4902 _ Performance Comprehensive (1-3 hrs.)

Courses Offered:

THE 11421-12121 Applied Theatre Designed for students participating in acting or backstage work with 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.
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

Continued on next page
but available to non-majors 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: Consent of instructor. 3 hrs.

**THE 40023 Acting II** Continuation 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 consent of 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. Final project. Prerequisites: THE 14123 Stagecraft, THE 14623 Introduction to Theatre, and THE 20023 Acting I. Alternate years. 4 hrs.

**THE 4102_/4202_ Theatre Practicum** Experience in theatrical production or internship. Requires definition of the area of study and major project. Consent of instructor. 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.

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**University Courses**

**Courses Offered:**

**UNV 11413 Introduction to Basic College Skills** Improvement of basic level reading and writing competencies. Areas dealt with include: reading comprehension and speed, organization, sentence structure, developing ideas, work choice, work forms, and punctuation. Study skills and time management also addressed. 3 hrs.
Individualized Major

Ottawa University's academic program throughout the decade of the 1970s 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 for their needs. The 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 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 a major or specialization. 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 ministry and, therefore, should consider the following courses as especially relevant to their pre-ministerial program, regardless of their particular major:

- ACC 20364 Accounting for Business Operations
- MIS 12063 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 Communication

Pre-Law Program. Admittance to a professional school of law is available to students with 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 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 Introduction to Macroeconomics
- MIS 12063 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 prepare for professional graduate school as well as for the variety of problems that health professionals must handle in serving the needs of clients. A major field may be selected from a variety of different disciplines, as long as the specific courses are included in the undergraduate program to satisfy the expectations for admission to the professional or graduate program of medicine or dentistry.

To assist in the process, the University provides a Health Professions Committee which can be of considerable assistance in both advising and counseling students on appropriate course selection and procedures for pursuing entrance to professional schools. 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 program are adequately prepared and have established the self-confidence necessary for success in and acceptance to professional health care programs. 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 this 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 required major in mathematics and 124 credit hour rule for graduation. 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 credit hour requirement. When official transcripts are received by Ottawa University showing that these additional courses and hours have been completed, a Bachelor of Arts 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 is 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 Pre-Engineering Advisor be contacted as soon as possible so that an individualized plan can be developed. For a list of required courses, see the Mathematics major.

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 technical courses, courses in such areas as English composition, psychology, religion, sociology, and economics not only meet graduation requirements at both Ottawa University and the engineering school, but more importantly, are the foundation of 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 schedules and responsibilities of faculty members. 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:
- The student has reached junior academic standing.
- The student has a cumulative GPA of 3.0 or higher.
- The student has the consent of the instructor who will supervise the independent study.
- The supervisor has worked with the student in a prior course or the student has been recommended to the supervisor by another faculty member.
- The supervisor is a member of the department in which the independent study is a part.
- The chairperson of the appropriate department and the chairperson of the appropriate division must 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, Technology and the Future, The Zen Tradition, Coaching Women's Sports, Community Recreation, Fluid Mechanics, Industrial Psychology, Drugs: Effects and Treatment, Behavior Modification, Paul's Concept of the Church, Modern Roman Catholic Thought.

Directed Study

Ottawa University acknowledges that scheduling conflicts occasionally arise. To facilitate student progress toward 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 is 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:

- The student must have a cumulative GPA of 2.20.
- All Directed Study courses must start at the beginning of a semester or term, that is, before the last day to add a class.
- The Directed Study must have the approval of the faculty member involved as well as the student's advisor and the chairperson of the division.
- Directed Studies 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, recreation, 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 an 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 to work on the job for 20 hours per week for a full 16-week semester. Internship courses are designated by the numbers 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.
FACULTY

Campus Associate Deans:

Division of the Arts and Humanities: Jane Ann Nelson
Division of Business and Science: Dr. Lawrence Gray

Campus Department Chairpersons:

Accounting: Richard L. Andrews
Art: Frank J. Lemp
Biology: Dr. Lawrence Gray
Business Administration: William T. Schwartz
Chemistry: Dr. Tom B. Lewis
Education: Dr. Virginia Haskin
English: Dr. Lora K. Reiter
Foreign Languages: Dr. L. Murle Mordy
History and Political Science: Dr. Ronald A. Averty
Human Services: Tonia Salvini
Management Information Systems: Dr. H. Keith Pratt
Mathematics: Dr. Timothy H. McNicholl
Music: Dr. Byron W. Jensen
Physical Education: Dr. Rosalie R. Hedlund
Psychology: Bill G. Ballinger
Religion and Philosophy: Mark Discher
Sociology: Kelly F. Steanson
Speech, Communication: Barry B. King
Theatre: Larry D. Peters

Emeriti

Charles C. Anderson (1961)

Kenneth Arnold (1980)

W. David Bemmels (1940-1979)
Professor Emeritus of Physics and Mathematics, B.A., Colorado College, 1934; M.A., Syracuse University, 1936; Ph.D., University of Colorado, 1941; M.H.L., Ottawa University, 1970.

Clifford E. Burke (1963)
Assistant Professor of Psychology and Religion, Dean of Students, B.A., Ottawa University, 1955; B.D., Berkeley Baptist Divinity School, 1958; M.S., University of Kansas, 1967.

George L. Chaney (1968)
Professor of Mathematics, B.S., University of Kansas, 1953; M.S., Kansas State College of Pittsburg, 1959; Ph.D., University of Kansas, 1967; M.H.L., Ottawa University, 1972.

Evelyn Kinney (1946-1981)
Professor Emeritus of Physical Education, B.S., University of Kansas, 1941; M.S., University of Colorado, 1952; M.H.L., Ottawa University, 1970.

Dorothy A. McCrossen (1988)
Assistant Professor of Education, B.A., Ottawa University, 1953; M.A., University of Kansas, 1977; Ed.S., ibid., 1990.

Emory J. McKenzie (1948-1985)
Professor Emeritus of English, B.A., Ottawa University, 1945; M.A., Duke University, 1947; Ph.D., University of Nebraska, 1962; M.H.L., Ottawa University 1970.
Callistus W. Milan (1980)

H. William Myers (1954-1985)
Professor Emeritus of Sociology, B.A., William Jewel College, 1944; B.D. Yale Divinity School, 1948; S.T.M., ibid., 1949; Ph.D., Yale University, 1959; M.H.L., Ottawa University, 1970.

J. Marion Rieth (1966-1988)
Assistant Professor Emeritus of Education and Librarian Emeritus, B.A., Ottawa University, 1951; M.E., University of Kansas, 1952; M.L.S., Kansas State Teachers College, 1972.

Joyce A. Stuermer (1971)
Assistant Professor of Music, B.A., Ottawa University, 1952; M.A., University of Kansas City, 1963.

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Active

Richard L. Andrews (1986)
Associate Professor of Accounting, B.A., University of Texas at El Paso, 1971; M.B.A., University of Kansas, 1985; D&GSOL, Ft. Leavenworth, Ks., 1989; M.H.L., Ottawa University, 1993.

Wayne D. Angell (1956)
Professor of Economics, B.A., Ottawa University, 1952; M.A., University of Kansas, 1953; Ph.D., ibid., 1957; M.H.L., Ottawa University, 1971.

Ronald A. Averyt (1961)
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Billy G. Ballinger (1965)
Associate Professor of Psychology, B.A., Southwestern College, 1959; M.S., Mankato State College, 1961; M.H.L., Ottawa University, 1972.

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Chris Creighton (1997)

Barbara Dinneen (1996)
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Robert G. Duffett (1996)

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Associate Professor of Art, B.A., Ottawa University, 1972; M.A., University of Kansas, 1980; M.H.L., Ottawa University, 1987.

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Fredric B. Zook (1967)
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Ottawa University Milwaukee

Donald A. Clauser
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Sherwin L. Snyder
  Associate Dean for Graduate Studies
Frederick Romero
  Associate Dean for Undergraduate Studies


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- Robert G. Duffett, Provost
- Jane Ann Nelson, Associate Dean of Arts and Humanities
- Lawrence Gray, Associate Dean of Business and Science
- Elaine Pyle, Registrar

**Admissions**

- Andrew R. Carrier, Director of Enrollment Management

**Alumni, Gifts, Estate Planning, Public Relations, Church Relations**

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**Bookstore**

- Catherine Peek, Bookstore Manager

**Expenses, Student Loans**

- Paul Foster, Business Manager

**Financial Aid, Scholarships, Student Employment**

- Sheldon Woolery, Director of Financial Aid

**Foreign Students**

- L. Murle Mordy, Director, English Language Institute

**Placement and Career Planning**

- Cherrie Finch, Director of Career Planning and Placement

**Religious Programs**

- Campus Minister

**Student Affairs, Housing, Health Service**

- Paul Rittorf, Dean of Student Development

**Transcripts, Grade Reports**

- Elaine Pyle, Registrar
### ACADEMIC CALENDAR DATES *

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<td>Commencement (Sun.)</td>
<td>May 17</td>
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These dates are tentative and subject to adjustment.

Ottawa University is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools.
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