interpersonal factors, motivation, change and conflict resolution, and communication audit practices and procedures. Students participate in a communication audit of a local organization. Prerequisite: OAD 30563 Management or consent of instructor. 3 hrs.

COM 30963 Electronic Media Advertising and Sales Management Theory and production of radio and television advertising and advertising sales management including campaign strategies, significant differences between print and electronic advertising production and sales presentation, electronic technical considerations, department administration and working relationships. 3 hrs.

COM 31163 Introduction to Video Production Study of the theory and practice of video production including equipment, videography, production and post-production techniques. Emphasis given to corporate video production and usage. Students organize and assist in the video-tape production of Theatre and Music Department events and other assignments. May be repeated once with consent of instructor. 3 hrs.

COM 3136/4136 Management Practicum Students gain In-depth experience as a member of the student executive staff or as an assistant to a member of the student executive staff, of the campus radio station (KTJO). May enroll in a directed study in a specific area of broadcasting. Prerequisites: COM 1063 Survey of Mass Communications, and consent of instructor. 3-6 hrs.

COM 40463 Electronic Media Management The role of the manager as it relates to commercial radio and television operation. Emphasis is placed on the general manager's duties and responsibilities. A study of organizational behavior and communication, unions and federal regulation as they apply uniquely to the electronic media. 3 hrs.

COM 40563 Electronic Media Law and Regulation A study of federal, state and local law, as well as international treaties, regulations the telecommunication industries from development through present day deregulation and the impact of new mass media technologies. Emphasis on Federal Communications Commission role and impact. Prerequisite: COM 40463 Broadcast Management or consent of instructor.

COM 4106/4206 Communication Internship May be taken for 3 to 8 hours of academic credit. Students interested in obtaining practical experience in communication are encouraged to pursue an internship. The internships are arranged individually and are usually taken after the completion of the major course work. Prerequisite: consent of instructor. 3-8 hrs.

COM 40962 Seminar in Media Issues A survey of current issues within the boundaries of the electronic media culminating in an examination fulfilling senior comprehensive requirements for the Broadcast Management emphasis. Prerequisite: Senior standing, completion of or coregistration in COM 40363 Radio Station Operations, and consent of the instructor. 2 hrs.

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ECONOMICS

Courses Offered:

ECO 20163 Macroeconomics The inflationary consequences of monetary and fiscal policies designed to eliminate poverty and unemployment, the significance of money and government deficits on the attainment of the goals of high employment and economic growth in a non-inflationary environment, and the role of the dollar in international trade. 3 hrs.

ECO 20263 Microeconomics A study of the role of prices in allocating and developing scarce resources to meet the needs and demands of consumers. Examines the impact of the profit motive on business size and efficiency. Explores the economic power of large-scale business firms, and investigates the interplay of private and public choice through price controls, business regulation, and taxation. Prerequisite: ECO 20163 Macroeconomics. 3 hrs.

ECO 30363 Money and Banking The role of money and banking in U.S. economic development and in international finance. The significance of money, banking history and development, commercial banking operations and structure, central banking and monetary management, alternative international monetary systems, monetary theory and policy. Prerequisite: ECO 20163 Macroeconomics. 3 hrs.

ECO 31563 Quantitative Business Analysis An application of economic theory and mathematical and statistical methods of business decision making. Prerequisites: MAT 10643 College Algebra and MAT 32044 Statistics. 3 hrs.

ECO 40863 International Business Examines the principal topics of international economics (the balance of payments, exchange rates, free trade, managed trade, protectionism, economic development) examined from the perspective of the business major. Appreciation of the world economic environment as it impinges on choices and decisions made by managers of firms, large and small. Prerequisite: ECO 20163 Macroeconomics and ECO 20263 Microeconomics. 3 hrs.
The training of teachers has long been an integral part of the mission of Ottawa University. The University continues to prepare a large percentage of its graduates for careers in education. Ottawa University is accredited to prepare teachers by the Kansas State Department of Education. The Teacher Education Program plays a coordinating role among all departments of the University for a variety of certification programs that are approved by the State of Kansas including:

**Pre K:** Early Childhood  
**K-9:** Elementary Education  
**K-12:** Physical Education, Music, Art  
**Secondary:** Biology, Drama, English, Health, Mathematics (Pending), U.S. History, U.S. Government, and World History, Psychology

**Governance**

The Teacher Education Committee (TEC) is an advising and consulting body to the Teacher Education Program. This committee is comprised of faculty members from all academic areas that have certification programs, and elected student representatives. See Teacher Education Program Handbook.

**Admission to the Teacher Education Program**

Students apply formally for admission to the Teacher Education Program during EDU 10932 Introduction to Teaching. Transfer students should apply for admission during their first semester at Ottawa University. Applications forms are in the Teacher Education Program Handbook, available at the University Bookstore.

Criteria for admission to the Teacher Education Program are: 2.50 cumulative grade point average (same as the state certification requirement); 2.75 grade point average in professional education and content area courses; Pre-Professional Skills Test (PPST) scores on file in the Teacher Education Department; two recommendations and a current health certificate.

**Required Course Work for Certification**

The Teacher Education Program Handbook used in the course EDU 10932 Introduction to Teaching, contains information regarding the course work required for certification. The handbook serves as the official document regarding specific requirements for certification at Ottawa University. The Teacher Education Program Handbook is distributed to all academic advisors. Students seeking certification are required to purchase a copy of the handbook from the University Bookstore. Students seeking secondary level certification will have an academic major advisor in a particular discipline (described in the catalog section dealing with that discipline). Secondary education majors are required to work closely with both their academic advisor in their content area and Director of Secondary Education.

**General Education Requirements**

The State of Kansas requires that each person seeking certification complete a program that includes course work in the area of general education. This work is designed to develop a broad understanding of the characteristics of the disciplines in the arts, humanities, natural sciences, and the social sciences. It is also designed to assist the student in becoming competent in written and oral communication and in the use of mathematical properties, processes and symbols. Some of the general education requirement is met through the satisfactory completion of Ottawa University’s liberal arts studies courses. The remainder is met by completing courses designated by the Teacher Education Program.

**Admission to Student Teaching**

Students must make formal application to the Teacher Education Committee for student teaching. Applications are reviewed and approved by the University Teacher Education Committee.

To be approved for student teaching, a student must have completed all Teacher Education Program requirements for the specific certification that the student is seeking. The student must maintain a cumulative grade point average no less than the state certification requirement (currently 2.50); earn 2.75 or greater grade point average for all Ottawa University professional education and content area coursework. The student must have no grade lower that “C” in either professional education courses or content area courses and have passing PPST scores on file in Teacher Education Department. Student teaching represents the capstone experience for the professional training and comes at the very end of all coursework.

**Certification**

At the end of student teaching, students complete an application for certification. Students must have fulfilled all requirements of the program and successfully completed their student teaching experience. Information concerning grade point averages, PreProfessional Skills Test (PPST) scores, and Professional Learning Test (PLT) scores are supplied on the application form. This application, with a recommendation from the Certification Officer of the University, accompanied by a small fee paid by the student, is sent to the Kansas State Department of Education in Topeka. Teaching certificates are issued by the Kansas State
Department of Education. Students seeking teaching certification for states other than Kansas should consult with the Director of Teacher Education Program for information.

Pre-Professional Requirements
**Required for all Teacher Education Programs**
- EDU 10932 Introduction to Teaching
- EDU 31132 Psychology of the Exceptional Child
- PSY 32353 Developmental Psychology

Professional Education Requirements
Required of all certification candidates. Must have been admitted to the program and have taken PPST, or consent of Director of Teacher Education Program to enroll in the following:
- EDU 31233 Educational Psychology
- EDU 31333 Elementary Methods and Materials
- EDU 31433 Secondary Methods and Materials
- EDU 32333 Schools in a Multicultural Society
- EDU 33034 History and Philosophy of Education
- EDU 40632 Managing the Educational Environment

Student Teaching Semester:
- EDU 40931 Student Teaching Seminar
- EDU 41037 Student Teaching
- EDU 42037 Student Teaching

Content Area Coursework
Education students must develop an academic major in a particular discipline and complete additional coursework required in that content area. Education programs offered at Ottawa University are listed at the beginning of this Education section. Specific coursework for Teacher Certification is defined in each content area section.

Certification requirements are updated regularly. Students should consult with the Teacher Education Program advisor for current requirements.

Elementary Education
**Required Courses for Elementary Education Certification**
All elementary majors must develop a 20-hour area of emphasis in a discipline outside the Teacher Education Program (i.e. math, language arts, social studies, or science) plus the following courses:
- EDU 20832 Children's Literature
- MAT 11243 Math for Elementary Teachers

All elementary majors must have been admitted to the Teacher Education Program and have taken the PPST to enroll in the following:
- EDU 30432 Elementary Science and Health Methods
- EDU 31533 EC/Elementary Reading Practicum
- EDU 32133 Elementary Math Methods I
- EDU 32233 Elementary Math Methods II
- EDU 32633 Elementary Reading Methods
- EDU 32733 Elementary Language Arts Methods
- EDU 32832 Elementary Social Studies Methods

ART 20222 Elementary Art Methods
MUS 24522 Elementary Music Methods
PED 30833 Elementary Physical Education Methods

Early Childhood Certification
**Required Courses for Early Childhood/Elementary**
The Early Childhood program is built upon the foundation of a major in Elementary Education, with an emphasis in Early Childhood Education Dual certification is highly recommended. Students should consult their advisors.

All elementary education majors with an early childhood emphasis must develop a 15-hour area of emphasis in a discipline outside the Teacher Education Program (i.e. math, language arts, social studies, or science). Early childhood/Elementary emphasis will substitute the following courses for Elementary Art Methods, Elementary Music Methods and Elementary Physical Education Methods.
- EDU 37233 Early Childhood/Elementary Creative Experience Workshop
- EDU 37333 Constructs of Early Childhood Education
- EDU 37433 Early Childhood Curriculum
- EDU 37533 Leadership in Early Childhood Education
- EDU 37633 Working with Individual Needs in the Early Childhood Classroom

Secondary School Certification Requirements
**Required Courses for Secondary Education Certification**
Secondary level certification students must develop an academic major in a particular discipline and take the following additional courses.
- EDU 31632 Reading in the Content Area
- EDU 34832 Health
- EDU 35232 Drama
- EDU 35332 English
- EDU 35432 Mathematics
- EDU 35732 Science (Biology)
- EDU 35832 Social Studies
  - (U S/World History, US Government, Psychology*)
- EDU 32532 Secondary and Middle School Practicum

*Available only in conjunction with another discipline. Enroll in Methods in primary content area.

Courses Offered:
**EDU 10932 Introduction to Teaching** Explores the roles of teachers, schools, and learners in seminars, on-campus practicum experiences and off-campus classroom observations. Fall and spring. 2 hrs.
**EDU 20832 Children's Literature** Designed to acquaint future teachers, librarians, and parents with a wide variety of literature for children and the criteria for selecting literature. Emphasis on developing ways to make reading a lifetime involvement. Fall. 2 hrs.

Continued on next page
EDU 30432 Elementary Science and Health Methods
Develops methodology for teaching science and health in the elementary school. Emphasizes knowledge of science concepts and the use of these concepts in developing an understanding of the world by children. Stresses scientific inquiry and discovery methods. Spring. 2 hrs

EDU 30932 Adolescent Literature
Examines a wide range of literary works appropriate to readers of middle school and high school age. A study of the types and themes of adolescent literature and issues related to its use in school programs. Designed for teachers, librarians and parents. Spring. 2 hrs.

EDU 31132 Psychology of the Exceptional Child
With the child's normative development as a reference point, behavioral problems, emotional disorders, physical and health dysfunction, and intellectual impairments are studied from a psychological perspective. Focus on etiology, alternative interventions, methods of dealing with parents, school administrators, and various agency personnel. Learning problems from different cultural or ethnic backgrounds are studied. Field experience required. Prerequisite: PSY 12053 Principles of Psychology. Spring. 2 hrs.

EDU 31233 Educational Psychology
Psychological focus on the learning process and its relationship to a diverse student body, motivation, theories and strategies of effective teaching, lesson planning, individualization, classroom management, cooperative learning and appropriate assessment methods. Prerequisite: PSY 12053 Principles of Psychology. Fall. 3 hrs.

EDU 31333 Elementary Methods and Materials
Builds on a variety of topics that represent basic knowledge for elementary teachers. A foundation course in which materials and strategies become specialized for subject and grade levels. Includes the use of technology in the classroom. Students develop resources for teaching, become familiar with current literature in their fields, and develop an awareness of major issues and trends in education. Prerequisite: EDU 10932 Introduction to Teaching. Fall. 3 hrs.

EDU 31433 Secondary Methods and Materials
Designed to build on a variety of topics that represent basic knowledge for secondary teachers. Provides the foundation for courses in which materials and strategies become more specialized for subject and grade level. Includes the use of technology in the classroom. Students develop resources for teaching, become familiar with current literature in their fields of teaching, and develop an awareness of major issues and trends in the field of education. Prerequisite: EDU 10932 Introduction to Teaching. Fall. 3 hrs.

EDU 31533 Early Childhood/Elementary Education Reading Practicum
Students practice skills teaching language, literacy, and reading. Early Childhood (birth-8 years) varied educational settings, including K-3 classrooms. Elementary (K-9) school classrooms. Corequisites: EDU 32633 Elementary Reading Methods and EDU 32733 Elementary Language Arts Methods. Fall. 3 hrs.

EDU 31632 Reading in the Content Area
For current or prospective teachers grades 5-12. Topics include assessing readability of materials, evaluating student reading skills, teaching vocabulary, comprehension, and study skills, working with "at risk" students, and incorporating writing into the curriculum. Prerequisite: EDU 31433 Secondary Methods and Materials. Fall. 2 hrs.

EDU 32133 Elementary Math Methods I
Focus on how to teach mathematics in classrooms K-9. Students work toward learning to value mathematics, to become confident in the ability to do mathematics, to become mathematical problem solvers, and to learn to communicate and reason mathematically. Emphasis on hands-on learning. Prerequisite: EDU 31333 Elementary Methods and Materials. Corequisite: EDU 32233 Elementary Math Methods II. Spring. 3 hrs.

EDU 32233 Elementary Math Methods II
Students learn about diagnosis, assessment and remediation techniques used in the area of mathematics. Field experience with children, some of whom may have learning problems in the area of arithmetic. Prerequisite: EDU 31333 Elementary Methods and Materials. Corequisite: EDU 32133 Elementary Math Methods I. Spring. 3 hrs.

EDU 32333 Schools in a Multicultural Society
Emphasis on understanding the organization and control of schools, and the legal framework within which teachers and schools operate. Presentations by state and local level representatives. Field experience in multicultural settings. Prerequisite: EDU 10932 Introduction to Teaching. Spring. 3 hrs.

EDU 32532 Practicum
Provides the student with an opportunity to observe, develop and practice skills under the guidance of an effective classroom teacher in the student's major area of interest. Prerequisites: EDU 31233 Educational Psychology and EDU 31433 Secondary Methods and Materials. Corequisite: EDU 3_ _32 Specialized Secondary School Methods. Spring. 2 hrs.

EDU 32633 Elementary Reading Methods
Designed to assist prospective teachers in exploring and questioning how reading is taught. Students develop skills in a variety of methods and approaches to reading programs in the elementary school. Fall. 3 hrs

EDU 32733 Elementary Language Arts Methods
Emphasis on approaches and methodologies used in teaching language arts in the elementary school. Presents techniques for teaching, listening, oral language, writing, spelling, grammar and handwriting. Fall. 3 hrs

EDU 32832 Elementary Social Studies Methods
Provides methods used in social studies classrooms in the elementary school. Emphasis on developing skills in multicultural settings, human relations, and in content areas such as: geography, economics and civics. Fall. 2 hrs.

EDU 33032 History and Philosophy of Education
Investigates the school and its relationship to society and learner in the past, present, and future. Includes historical and philosophical perspectives, as well as approaches of major educational philosophers. Spring. 2 hrs.

Continued on next page
EDU 37633 Working with Individual Needs in the Early Childhood Classroom Focus is on working with diverse educational abilities and needs in the typical early childhood classroom. Topics include: Children with disabilities, children at risk, and gifted children. Preschool classroom observations, preschool micro-teaching, and preschool classroom presentations included. Fall. 3 hrs.

EDU 40632 Managing the Educational Environment Provides familiarity with resources for instruction and classroom management. Discusses how to use the Internet and Net resources for educators. Discusses contemporary discipline strategies for the classroom. Students formulate working philosophy of classroom discipline. Exposure to communication issues that affect relationships with students of different cultures and backgrounds. Spring. 2 hrs.

EDU 40931 Student Teaching Seminar Part of the student teaching semester, this course provides an opportunity for student teachers to interact as a group, to provide support to each other, and to develop a deeper understanding of teaching. Seminars cover such topics as credentials, interviewing, child abuse, human sexuality, and obtaining a teaching certificate. Course meets 6-8 times during the semester. Corequisites: EDU 41037 and 42037 Student Teacher Elementary and/or Secondary. Fall and spring. 1 hr.

EDU/E 41037 Student Teaching/Elementary The culminating field experiences for elementary pre-service teachers. Provides the opportunity to observe and to teach in an elementary school setting. All professional education courses and courses in the major must be completed prior to enrollment in student teaching. Fall and spring. 7 hrs.

EDU/E 42037 Student Teaching/Elementary The culminating field experiences for elementary pre-service teachers. Provides the opportunity to observe and to teach in an elementary school setting. All professional education courses and courses in the major must be completed prior to enrollment in student teaching. Fall and spring. 7 hrs.

EDU/S 41037 Student Teaching/Secondary The culminating field experiences for secondary pre-service teachers. Provides the opportunity to observe and to teach in a secondary school setting. All professional education courses and courses in the major must be completed prior to enrollment in student teaching. Fall and spring. 7 hrs.

EDU/S 42037 Student Teaching/Secondary The culminating field experiences for secondary pre-service teachers. Provides the opportunity to observe and to teach in a secondary school setting. All professional education courses and courses in the major must be completed prior to enrollment in student teaching. Fall and spring. 7 hrs.
The context of English study at Ottawa University encourages reflective inquiry. Faculty work carefully to ask essential questions about both texts and approaches to learning. They try to provide an environment for students to explore possibility, seek connections, and contribute to class work with respect and good will. The department's highest aims are to assist students in discovering the insights of literature, then relating them to their own lives as they attempt to become productive, sensitive, and ethical problem-solvers in a vastly complex world.

Not only is English study an essential component of the liberal arts, it provides excellent opportunities for both personal satisfaction and pre-professional education. Graduates with an English major may be found in law, journalism, advertising, public relations, publishing communications, library science, technical writing, government, business, and education.

**English Major**

**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 Multicultural Literature
- ENG 32523 The English Language
- ENG 35023 Seminar in American Literature
- ENG 31823 Shakespeare Seminar
- or
- ENG 35123 Seminar in British Literature
- ENG 40123 Literary Criticism
- ENG 40323 Theory of Poetry

**Recommended Courses:**
Two courses in Spanish and two courses from the following:
- HPS 11054 The American Experience
- PSY 30153 Theories of Personality
- REL 20323 The Pentateuch
- ART 13023 Art Fundamentals

Additional course work in music and drama is encouraged.

**English Certification Emphasis:**

**Required for Certification in English:**
- EDU 30932 Adolescent Literature
- EDU 31632 Reading in the Content Area
- EDU 32432 Secondary Practicum
- EDU 35332 Specialized Secondary Methods
- ENG 10223 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 Multicultural 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

**Recommended Courses:**
Additional participation in drama, newspaper, and yearbook productions.

**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 Consists of critical readings of timeless and timely works of imaginative literature in translation. Principal aim is to bring students into contact with their western traditions. Substantial time is spent on Greek mythology as well as such authors as Cervantes, Flaubert, Dostoevsky, Tolstoy, Hamsun, Ibsen, Chekhov, Camus, and Garcia Marquez. Stresses the skills of perceptive, inferential reading and makes use of the interpretive essay incorporating insightful response. 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.
- 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.

*Continued on next page*
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 consent of instructor. 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, primary consideration in reading and exploring the texts. Prerequisite: A 200 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 200 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 200 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 300 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 300 level English course. Alternate years. 3 hrs.
History is the study of past human activity in all its variety. Political science studies the nature, purpose, and principles of governments. Together, history and political science enable an understanding of public events and trends of the past and present in American as well as international societies. They deal with vital contemporary problems, including the interrelationship between society and the environment, issues of war and peace, and movements for social and political change. They are the basis of a liberal education since they embrace all facets of human activity from religious and philosophical aspirations to political, social, and economic transactions.

Within the liberal arts context, the study of history and political science enhances basic communication skills and the ability to think critically and make sound decisions, and provides one of the few substitutes for direct experience. History and political science courses provide valuable preparation for a variety of careers including government service, the law, teaching, politics, business administration, research, medicine, and other endeavors which require a broad and disciplined mind.

**History and Political Science**

**Required Major Courses:**

- HPS 10053 Introduction to World Geography
- HPS 11053 The American Experience
- HPS 13353 American Government
- HPS 25353 World Civilization I
- HPS 25453 World Civilization II
- HPS 31653 Twentieth Century America
- HPS 32253 Political Parties
- HPS 33253 International Relations
- HPS 34354 Seminar in American History and Government I
- or HPS 34454 Seminar in American History and Government II
- HPS 35054 Seminar in World History I
- or HPS 35154 Seminar in World History II

**Required Supporting Courses:**

- SPH 11023 Speech Preparation and Delivery
- ENG 23723 Intermediate Writing
- or ENG 31023 Advanced Expository Writing
- MAT 32044 Statistics

And at least one course in MIS, ECO, SOC, and PSY.

**Teacher Certification Emphasis:**

*Required for Certification in U.S. History and Government, World History*

- BIO 30643 Environmental Biology
- ECO 21063 Macroeconomics
- EDU 31632 Reading in the Content Area
- EDU 32432 Secondary Practicum
- EDU 35332 Specialized Secondary Methods
- HPS 10053 Introduction to World Geography
- HPS 11053 The American Experience
- HPS 13353 American Government
- HPS 21052 Kansas History and Politics
- HPS 25353 World Civilization I
- or HPS 25453 World Civilization II
- HPS 31653 Twentieth Century America
- HPS 32253 Political Parties
- HPS 33253 International Relations
- HPS 34354 Seminar in American History and Government I
- or HPS 34454 Seminar in American History and Government II
- HPS 35054 Seminar in World History I
- or HPS 35154 Seminar in World History II
- MAT 32044 Statistics
- SOC 10453 Introduction to Sociology
- or SOC 26053 Cultural Anthropology
- SOC 30653 Ethnic Relations and Multiculturalism

**Courses Offered:**

**HPS 10053 Introduction to World Geography** Study 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 contemporary environmental problems in the world. 3 hrs.

**HPS 11053 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. 3 hrs.


**HPS 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, even years. 2 hrs.

**HPS 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.

**HPS 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.

*Continued on next page*
HPS 31653 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. 3 hrs.

HPS 32253 Political Parties A study of the American political party system, its organization, strengths, weaknesses, functions, and techniques, with emphasis on the post-World War II era and trends of the U. S. political party system. Even numbered years, fall semester. 3 hrs.

HPS 33253 International Relations An introduction to international relations and foreign policy. Emphasis on the study of the independence of nations, including the nature of cooperative arrangements of nations, the causes of conflicts between nations, and the resolution of conflict. An exploration of concepts ideas and skills needed for analyzing international relations. Prerequisite: HPS 13353 American Government or consent of the instructor. Odd numbered years, fall semester. 3 hrs.

HPS 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. Prerequisites: Junior or senior standing and one course in history or political science. Even numbered years, spring semester. 4 hrs.

HPS 35054/35154 Seminar in World History I/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 a course in history or political science. Even numbered years, fall semester. 4 hrs.

HPS 4105/4205_ Internship Supervised field work at international, national, state, or local levels of government. The internship experience can also be earned or with political parties, political interest groups, or law firms.
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.

**Advocacy Emphasis**

**Required Courses**

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**Children and Families Emphasis**

**Required Courses**

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**Corrections Emphasis**

**Required Courses**

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**Gerontology Emphasis**

**Required Courses**

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<tr>
<th>HUS</th>
<th>30153</th>
<th>Issues in Gerontology</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUS</td>
<td>30953</td>
<td>Death and Dying</td>
</tr>
</tbody>
</table>

**Mental Health**

**Required Courses**

<table>
<thead>
<tr>
<th>HUS</th>
<th>25553</th>
<th>Special Topics: Case Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC</td>
<td>40753</td>
<td>Sociology of Deviance</td>
</tr>
</tbody>
</table>

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

**Human Service Major**

**Required Major Courses:**

<table>
<thead>
<tr>
<th>HUS</th>
<th>20553</th>
<th>Social Welfare: Introduction to Human Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUS</td>
<td>21253</td>
<td>The Family</td>
</tr>
<tr>
<td>HUS</td>
<td>30253</td>
<td>Social Policy and the Community</td>
</tr>
<tr>
<td>HUS</td>
<td>40053</td>
<td>Methods Seminar - Human Services Practice</td>
</tr>
<tr>
<td>HUS</td>
<td>4105_</td>
<td>Internship in Human Services</td>
</tr>
<tr>
<td>HUS</td>
<td>4205_</td>
<td>Internship in Human Services</td>
</tr>
</tbody>
</table>

Minimum requirement for internship is 8 academic credit hours.

**Required Supporting Courses:**

<table>
<thead>
<tr>
<th>ENG</th>
<th>23753</th>
<th>Intermediate Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG</td>
<td>31023</td>
<td>Advanced Expository Writing</td>
</tr>
<tr>
<td>PHL</td>
<td>31023</td>
<td>Ethics and Society</td>
</tr>
<tr>
<td>PSY</td>
<td>12053</td>
<td>Principles of Psychology</td>
</tr>
<tr>
<td>PSY</td>
<td>30353</td>
<td>Psychology of Abnormal Behavior</td>
</tr>
<tr>
<td>PSY</td>
<td>32353</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>SOC</td>
<td>10453</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC</td>
<td>25553</td>
<td>Special Topics in Sociology</td>
</tr>
<tr>
<td>SOC</td>
<td>30653</td>
<td>Ethnic Relations and Multiculturalism</td>
</tr>
</tbody>
</table>

**Recommended Courses:**

<table>
<thead>
<tr>
<th>EDU</th>
<th>20833</th>
<th>Childrens Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU</td>
<td>31133</td>
<td>Psychology of Exceptional Child</td>
</tr>
<tr>
<td>ENG</td>
<td>23723</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>ENG</td>
<td>31053</td>
<td>Advanced Expository Writing</td>
</tr>
<tr>
<td>ENG</td>
<td>31723</td>
<td>Minority Literature</td>
</tr>
<tr>
<td>HPS</td>
<td>25453</td>
<td>World Civilization II</td>
</tr>
<tr>
<td>MAT</td>
<td>32044</td>
<td>Statistics</td>
</tr>
<tr>
<td>MIS</td>
<td>12043</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>MUS</td>
<td>10323</td>
<td>Jazz in America</td>
</tr>
<tr>
<td>OAD</td>
<td>30563</td>
<td>Management</td>
</tr>
<tr>
<td>PAC</td>
<td>11231</td>
<td>Nontraditional Team Sports I</td>
</tr>
<tr>
<td>PED</td>
<td>21433</td>
<td>Introduction to Nutrition</td>
</tr>
<tr>
<td>PHL</td>
<td>11023</td>
<td>Basic Issues in Philosophy</td>
</tr>
<tr>
<td>HPSC</td>
<td>13354</td>
<td>American Government</td>
</tr>
<tr>
<td>PSY</td>
<td>32253</td>
<td>Research Design and Analysis</td>
</tr>
<tr>
<td>SOC</td>
<td>26053</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>SOC</td>
<td>30753</td>
<td>Human Sexuality</td>
</tr>
<tr>
<td>THE</td>
<td>11421</td>
<td>Applied Theatre</td>
</tr>
<tr>
<td>SPA</td>
<td>10124</td>
<td>Elementary Spanish I</td>
</tr>
<tr>
<td>SPH</td>
<td>11023</td>
<td>Speech Preparation and Delivery</td>
</tr>
</tbody>
</table>

**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.

*Continued on next page*
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.

Management of Information Systems Major

**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

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 & Database Systems or consent of instructor. 3 hrs.

**MIS 40163 Business Information Systems** Managerial perspective on the effective use of information technology and systems in global organizations for the facilitation and management of business and its use for strategic advantage. Telecommunications, data management, office automation, hardware and software concepts and uses. Social and ethical issues arising from the use of information technologies. **Prerequisite:** MIS 30163 Database Management or the permission of the instructor. 3 hrs.

**MIS 41863 Methodologies of Project Development** Various methodological approaches to software acquisition, development, testing and implementation. Understanding of the relevance of methodologies to Capability Model Theory, the interdependence of phase deliverables, quality control techniques and methods and tools for testing. **Prerequisites:** OAD 30563 Management and OAD 30063 Behavior in Organizations of the consent of the 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 43063 Decision support and Expert Systems** Examines the utilization and application of decision support systems and expert systems within an organizational context. Provides a focused approach to understanding and building a Decision Support System. **Prerequisites:** MIS 30163 Database Management of the consent of the 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 30063 Behavior in Organizations. 4 hrs.
Mathematics is both a language and a way of thinking. The study of mathematics, the most universal of all sciences and a part of a classical liberal arts education, can build the foundation for a future in many fields. Providing training in logic and problem solving, the mathematics major can be applied to a wide range of possible careers, from computer science to teaching, from actuarial science and business to psychology. Ottawa University's math program provides the tools for a wide range of practical problem solving careers. Recent Ottawa University graduates hold positions including high school teacher and coach, university professor, aeronautical engineer, physician, and bank loan officer.

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 21044 Calculus I
- MAT 21144 Calculus II
- MAT 22043 Linear Algebra
- MAT 26043 College Geometry
- MAT 30143 History of Mathematics
- MAT 31044 Calculus III
- MAT 33044 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

**Actuarial Science Emphasis**

**Required Major Courses:**
- MAT 21044 Calculus I
- MAT 21144 Calculus II
- MAT 22043 Linear Algebra
- MAT 31044 Calculus III
- MAT 31144 Mathematical Statistics
- MAT 33043 Differential Equations
- MAT 43443 Numerical Methods
- MAT 42043 Abstract Algebra

Three semesters of Actuarial Seminar MAT 36141, 36241, 36341, 46141, 46241, or 46341.

**Required Supporting Courses:**
- MIS 16161 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**

**Required for Certification in Mathematics**
- EDU 31632 Reading in the Content Area
- EDU 32432 Secondary Practicum
- EDU 35332 Specialized Secondary Methods
- MAT 21043 Calculus I
- MAT 21144 Calculus II
- MAT 22043 Linear Algebra
- MAT 26043 College Geometry
- MAT 30143 History of Mathematics
- MAT 31044 Calculus III
- MAT 31144 Mathematical Statistics
- MAT 42143 Abstract Algebra

**Required Supporting Course:**
- MIS 12063 Introduction to Computers
- MIS 16163 Computer Programming

**Recommended Courses:**
- MAT 33043 Differential Equations
- or
- MAT 43443 Numerical Methods

**Courses Offered:**

**MAT 10243 Introduction to College Algebra** Introduction to algebra with an examination of the real number system. Major emphasis on symbol manipulation, solving equations, and translation of verbal problems to algebraic form. Designed to prepare students for Intermediate College Algebra. 3 hrs.

**MAT 10443 Intermediate College Algebra** Emphasis is on algebraic skill development. Linear equations, quadratic equations, rational exponents, radicals, and systems of equations. Designed to prepare students for College Algebra. **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. **Prerequisite:** Two years of high school algebra, or MAT 10443 Intermediate College Algebra, or consent of instructor. 3 hrs.

**MAT 11143 Precalculus** A review of basic algebra and trigonometry, with emphasis placed on skills and concepts needed in the calculus sequence. Includes a study of polynomial, exponential and logarithmic, and trigonometric functions, trigonometric identities, and an introduction to sequences and series. **Prerequisite:** MAT 10443 Intermediate College Algebra, or permission of instructor. 3 hrs.

**MAT 11243 Math for Elementary Teachers** Designed to enhance the mathematical skills and knowledge as well as the pedagogical approach. Emphasis is on mathematical content.

Continued on next page
and methods of presentation. Students learn to communicate mathematical ideas, organize and analyze information, solve problems readily, and construct logical arguments. 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. Includes computer laboratory component. Prerequisite: MAT 11143 Precalculus, or equivalent. 4 hrs.
MAT 21144 Calculus II Integration techniques, the study of infinite series, and applications of derivatives and integrals to a wide variety of geometric, physical, and behavioral problems. Includes computer laboratory component. 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. This course is also an introduction to reading and writing rigorous mathematical proofs. Prerequisite/Corequisite: MAT 21044 Calculus I or 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. Prerequisite: MAT 21044 Calculus I or consent of instructor. 3 hrs.
MAT 30143 History of Mathematics Covers mathematical concepts and personalities in their historical context. Topics include: primes, continued fractions, diophantine equations, efforts to solve cubic, quartic, and quintic equations, geometric constructions, early attempts to approximate pi, and graph coloring problems. Emphasis on the interests and people of mathematics through the 1700s. Prerequisite/Corequisite: MAT 21144 Calculus II. 3 hrs.
MAT 31044 Calculus III An extension of the study of differentiation and integration to vector function and functions of several variables. Emphasis is placed on an intuitive understanding of the concepts and on applications. Includes computer laboratory component. Prerequisites: MAT 21144 Calculus II. 4 hrs.
MAT 31143 Mathematical Statistics Axioms and theorems of elementary probability, random variables, probability distributions, expectation, mean, variance, moment generating functions of probability distributions, multivariate distributions, and the central limit theorem. Designed to prepare student to take the actuarial exam in probability and statistics. Intended for math majors. Prerequisite: MAT 31044 Multivariable Calculus. 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. Intended for non-math majors. 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, 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 36141, 36241, 36341 Actuarial Seminar Focuses on preparing for the actuarial exams given by the actuarial societies. Work is done on old exams and other projects. Prerequisite: MAT 31044 Calculus III and MAT 31144 Mathematical Statistics. 1 hr.
MAT 42143 Abstract Algebra Study of elementary number theory, groups, rings and fields. Includes induction, fundamental theorem of arithmetic, congruence relations, the isomorphism theorems, and quotient structures. Culminates with a survey of Galois theory. Prerequisite: MAT 22043 Linear Algebra and MAT 31044 Calculus III. 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, MAT 31044 Multivariable Calculus, and MIS 16163 Computer Programming. 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 22043 Linear Algebra and MAT 31044 Multivariable Calculus. 3 hrs.
MAT 46141, 46241, 46341 Actuarial Seminar Focuses on preparing for the actuarial exams given by the actuarial societies. Work is done on old exams and other projects. Prerequisite: MAT 31044 Calculus III and MAT 31144 Mathematical Statistics. 1 hr.
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, Symphontette, 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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 10123</td>
<td>Introduction to Creative Listening</td>
</tr>
<tr>
<td>MUS 15124</td>
<td>Styles I</td>
</tr>
<tr>
<td>MUS 15224</td>
<td>Styles II</td>
</tr>
<tr>
<td>MUS 22224</td>
<td>Styles III</td>
</tr>
<tr>
<td>MUS 22324</td>
<td>Styles IV</td>
</tr>
<tr>
<td>MUS 49023</td>
<td>Research and Performance</td>
</tr>
</tbody>
</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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 10123</td>
<td>Introduction to Creative Listening</td>
</tr>
<tr>
<td>MUS 15124</td>
<td>Styles I</td>
</tr>
<tr>
<td>MUS 15224</td>
<td>Styles II</td>
</tr>
<tr>
<td>MUS 16321</td>
<td>Applied Organ</td>
</tr>
<tr>
<td>MUS 22224</td>
<td>Styles III</td>
</tr>
<tr>
<td>MUS 22324</td>
<td>Styles IV</td>
</tr>
</tbody>
</table>

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.

Teacher Certification Emphasis:

**Required Major Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 31632</td>
<td>Reading in the content Area</td>
</tr>
<tr>
<td>EDU 32532</td>
<td>Secondary/Middle School Practicum</td>
</tr>
<tr>
<td>MUS 10123</td>
<td>Introduction to Creative Listening</td>
</tr>
<tr>
<td>MUS 13121</td>
<td>Trumpet/Horn Class</td>
</tr>
<tr>
<td>MUS 13221</td>
<td>Clarinet/Double Reed Class</td>
</tr>
<tr>
<td>MUS 13321</td>
<td>Violin/Viola</td>
</tr>
<tr>
<td>MUS 13421</td>
<td>Percussion/Instrument Repair</td>
</tr>
<tr>
<td>MUS 13521</td>
<td>Trombone/Tuba Class</td>
</tr>
<tr>
<td>MUS 13621</td>
<td>Flute/Saxophone Class</td>
</tr>
<tr>
<td>MUS 15124</td>
<td>Styles I</td>
</tr>
<tr>
<td>MUS 15224</td>
<td>Styles II</td>
</tr>
<tr>
<td>MUS 22224</td>
<td>Styles III</td>
</tr>
<tr>
<td>MUS 22324</td>
<td>Styles IV</td>
</tr>
<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.

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>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 16121</td>
<td>Applied Piano</td>
</tr>
<tr>
<td>MUS 16221</td>
<td>Applied Voice</td>
</tr>
<tr>
<td>MUS 16321</td>
<td>Applied Organ</td>
</tr>
<tr>
<td>MUS 16421</td>
<td>Applied Brass</td>
</tr>
<tr>
<td>MUS 16521</td>
<td>Applied Percussion</td>
</tr>
<tr>
<td>MUS 16621</td>
<td>Applied Strings</td>
</tr>
<tr>
<td>MUS 16721</td>
<td>Applied Woodwinds</td>
</tr>
</tbody>
</table>

**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.

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

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 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 Develops understanding of brass instrument techniques and pedagogy. 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 Develops understanding of woodwind instrument techniques and pedagogy. 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 Develops understanding of string instrument techniques and pedagogy. 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 Develops understanding of percussion instrument techniques pedagogy, 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 Develops understanding of trombone and tuba techniques, pedagogy, performance skills, and terminology related to brass instruments. Various methodologies employed and discussed. 1 hr.

MUS 13621 Flute/Saxophone Class Develops understanding of flute and saxophone techniques and pedagogy, performance skills and understanding of terminology related to woodwind 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 simple part forms. Discussion of music 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, rondos, variation forms, and sonata form, development of the concerto, and the orchestration of string instruments. Discussion of music 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 multi-movement 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, neo-classicism, 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 (3 hrs.) and non-majors (2 hrs.). 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 Standards for Music 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.

PHILOSOPHY

Courses Offered:

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

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

PHL 31023 Ethics and Society An overview of philosophical and Christian ethical systems and their application in personal and social contexts. Emphasis on understanding one’s own ethical system. Prerequisite: PHL 11023 Basic Issues in Philosophy or consent of instructor. Alternate years. 3 hrs.
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 **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 Administration** emphasis is designed to prepare students for teaching and leadership roles in private and/or public recreational programs.
- The **Teacher Certification** emphasis is designed to prepare students for teaching in traditional educational (K-12) settings.

### Health/Fitness Emphasis

**Required Major Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PAC 10131</td>
<td>Coed Weight Training</td>
</tr>
<tr>
<td>PAC 11131</td>
<td>Lifetime Fitness</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>
</tr>
<tr>
<td>PED 30233</td>
<td>Psychology and Sociology of Sports</td>
</tr>
<tr>
<td>PED 30333</td>
<td>Advanced Athletic Training</td>
</tr>
<tr>
<td>PED 32533</td>
<td>Kinesiology</td>
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<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>
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**Required Supporting Courses:**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 10043</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td>BIO 10042</td>
<td>Principles of Biology Lab</td>
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<tr>
<td>BIO 20343</td>
<td>Human Anatomy and Physiology</td>
</tr>
<tr>
<td>BIO 20342</td>
<td>Human Anatomy and Physiology Lab</td>
</tr>
<tr>
<td>BIO 21443</td>
<td>Introduction to Nutrition</td>
</tr>
<tr>
<td>CHE 10044</td>
<td>Concepts of Chemistry and Lab</td>
</tr>
<tr>
<td>CHE 12044</td>
<td>General Chemistry and Lab</td>
</tr>
<tr>
<td>COM 30163</td>
<td>Interpersonal and Small Group Communications</td>
</tr>
<tr>
<td>SPH 11023</td>
<td>Speech Preparation and Delivery</td>
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</table>

**End of Health/Fitness Emphasis**

### Recreation Administration Emphasis

**Required Major Courses:**

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<tr>
<td>PAC 11131</td>
<td>Lifetime Fitness</td>
</tr>
<tr>
<td>PAC 11231</td>
<td>Nontraditional Team Sports I</td>
</tr>
<tr>
<td>PAC 11331</td>
<td>Folk and Square Dance</td>
</tr>
<tr>
<td>PAC 1_3</td>
<td>One additional PAC</td>
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<tr>
<td>PED 10732</td>
<td>First Aid</td>
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<td>PED 11133</td>
<td>History and Principles of Health, Physical Education and Recreation</td>
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<tr>
<td>PED 20533</td>
<td>Care and Prevention of Athletic Injuries</td>
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<tr>
<td>PED 24733</td>
<td>Teaching Spring Sports</td>
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<tr>
<td>PED 30032</td>
<td>Elementary and Secondary Rhythms and Dance</td>
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<tr>
<td>PED 30233</td>
<td>Psychology and Sociology of Sports</td>
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<tr>
<td>PED 30833</td>
<td>Elementary Physical Education Methods</td>
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<td>PED 31833</td>
<td>Recreational Leadership</td>
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<tr>
<td>PED 34533</td>
<td>Exercise Physiology</td>
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<tr>
<td>PED 4103</td>
<td>Internship in Physical Education (3-16 hrs.)</td>
</tr>
<tr>
<td>PED 41733</td>
<td>Theory of Administration-Health, Physical Education and Recreation</td>
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</table>

And one coaching methods class.

**Required Supporting Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACC 20364</td>
<td>Accounting for Business Operations</td>
</tr>
<tr>
<td>BIO 10043</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td>BIO 10042</td>
<td>Principles of Biology Lab</td>
</tr>
<tr>
<td>BIO 20343</td>
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</tr>
<tr>
<td>COM 30163</td>
<td>Interpersonal Communications</td>
</tr>
<tr>
<td>SPH 11023</td>
<td>Speech Preparation and Delivery</td>
</tr>
<tr>
<td>ENG 23723</td>
<td>Intermediate Writing</td>
</tr>
<tr>
<td>ENG 31023</td>
<td>Advanced Expository Writing</td>
</tr>
<tr>
<td>OAD 30563</td>
<td>Management</td>
</tr>
<tr>
<td>OAD 31863</td>
<td>Marketing</td>
</tr>
<tr>
<td>PSY 12053</td>
<td>Principles of Psychology</td>
</tr>
</tbody>
</table>

Continued on next page
**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
- HPS 13354 American Government

Additional PAC's and coaching methods classes.

**Teacher Certification Emphasis**

*Dual certification in Physical Education and Health is highly recommended. Most school districts require this dual certification for employment.*

**Physical Education/Health Certification**

*Required for dual certification in Physical Education and Health:*

**PAC**
- 10131 Coed Weight Training
- 11131 Lifetime Fitness
- 11231 Nontraditional Team Sports I

Two additional PAC's

**PED**
- 10433 Personal and Community Health
- 10732 First Aid
- 11133 History and Principles of Health, Physical Education and Recreation
- 20533 Care and Prevention of Athletic Injuries
- 23733 Teaching Fall Sports
- 24733 Teaching Spring Sports
- 30032 Elementary and Secondary Rhythms and Dance
- 30233 Psychology and Sociology of Sports
- 30833 Elementary Physical Education Methods
- 33532 Adaptive Physical Education
- 34533 Exercise Physiology
- 41031 Internship in Health
- 41733 Theory of Administration-Health, Physical Education and Recreation

**Required Supporting Courses:**

**EDU**
- 31632 Reading in the content Area
- 32532 Secondary/Middle School Practicum
- 34832 Specialized Secondary Health Methods

**BIO**
- 10043 Principles of Biology
- 10042 Principles of Biology Lab
- 20353 Human Anatomy and Physiology
- 20352 Human Anatomy and Physiology Lab
- 21452 Introduction to Nutrition

**Health Certification**

*Required Courses:*

**BIO**
- 10043 Principles of Biology
- 10042 Principles of Biology Lab
- 20353 Human Anatomy and Physiology
- 20352 Human Anatomy and Physiology Lab
- 21452 Introduction to Nutrition

**EDU**
- 31632 Reading in the content Area
- 34832 Specialized Secondary Health Methods
- 11131 Lifetime Fitness

**PED**
- 10433 Personal and Community Health
- 10732 First Aid
- 11133 History and Principles of Health, Physical Education and Recreation
- 33532 Adaptive Physical Education
- 41031 Internship in Health

**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
- 10042 Principles of Biology Lab
- 20343 Human Anatomy and Physiology
- 20342 Human Anatomy and Physiology Lab
- 20533 Care and Prevention of Athletic Injuries

**PED**
- 30333 Advanced Athletic Training
- 32533 Kinesiology
- 34533 Exercise Physiology

And 1500 hours of 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.

*Continued on next page*
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 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 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 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.

Physical Education Courses:
PED 10433 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.
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 22732 Methods of Coaching Football Theory of coaching, officiating, and administering intramural, recreational and interscholastic football programs. Field work required. 2 hrs.

Continued on next page
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 swimming, 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 defect can be improved through physical activity. The purpose is to develop and understand a physical education program for gifted, retarded, handicapped and disadvantaged individuals. 2 hrs.

PED 34533 Exercise Physiology The study of 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 career 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.

PED 41031 Internship in Health Provides practical experiences in health related areas for students who are seeking teacher certification in health. 1 hr.
**PHYSICS**

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.

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**PSYCHOLOGY**

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.

**Psychology Major**

**Required Major Courses:**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PSY 32253</td>
<td>Research Design and Analysis</td>
</tr>
<tr>
<td>PSY 30153</td>
<td>Theories of Personality</td>
</tr>
<tr>
<td>PSY 30353</td>
<td>Psychology of Abnormal Behavior</td>
</tr>
<tr>
<td>PSY 30853</td>
<td>History and Systems of Psychology</td>
</tr>
<tr>
<td>PSY 32353</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>PSY 40553</td>
<td>Counseling Theories and Dynamics</td>
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<tr>
<td>PSY 4105</td>
<td>Internship in Psychology</td>
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<tr>
<td>MAT 32044</td>
<td>Statistics</td>
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<td>COM 30163</td>
<td>Interpersonal Communications</td>
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<tr>
<td>HUS 21253</td>
<td>The Family</td>
</tr>
<tr>
<td>HUS 30953</td>
<td>Death and Dying</td>
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**MAT 10643** | College Algebra |
**MIS** | A course in computer applications |
**PHL 11023** | Basic Issues in Philosophy |
**PHL 21723** | Introduction to Logic |
**PHL 31023** | Ethics and Society |
**HPS 13354** | American Government |
**SOC 10153** | Social Thought |
**SOC 10454** | Introduction to Sociology |
**SOC 11753** | Social Problems and American Values |
**SOC 26053** | Cultural Anthropology |
**SOC 30753** | Human Sexuality |
**SPH 11023** | Speech Preparation and Delivery |

**Teacher Certification Emphasis**

*Certiﬁcation in Psychology may be obtained only in conjunction with certiﬁcation in another content area. The following courses are required in addition to coursework in the student’s primary content area.

**Required for Certification in Psychology**

<table>
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<tr>
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<tr>
<td>PSY 12053</td>
<td>Principles of Psychology</td>
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<tr>
<td>PSY 30353</td>
<td>Psychology of Abnormal Behavior</td>
</tr>
<tr>
<td>PSY 30853</td>
<td>History and Systems of Psychology</td>
</tr>
<tr>
<td>PSY 31354</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>PSY 32353</td>
<td>Developmental Psychology</td>
</tr>
</tbody>
</table>

*Continued on next page*
Courses Offered:

**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 20053 Psychology of Religion** Consideration of the psychosocial and phenomenological antecedents of religious experience. Looks at the nature of religious experience and the behavioral consequences of religion for a position of “critical sympathy” rather than deconstruction. Emphasizes modern social science perspective and method in exploring research relevant to religious though, feeling, belief, and behavior with contemporary psychological theory as the backdrop. Readings from the works of Weber, Durkheim, Jung, Douglas, Eliade, and James among others. 3 hrs.

**PSY 30153 Theories of Personality** Emphasis on the psychoanalytic, behavioristic, and humanistic theories of personality development. Included 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 psychopathological 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 31354 Physiological Psychology** Examines physical basis on human behavior and experience, how the brain and nervous system work, information flow and processing at higher levels of organization. Addresses issues of intelligence, consciousness, addictions, and deviant behavior from a neurophysiological standpoint. 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.

**PSY 32353 Developmental Psychology** Theory and research on human growth and development through the lifespan focus on biological, psychological, and sociological patterns. Prerequisite: PSY 12053 Principles of Psychology. 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 41354 Brain and Behavior** Physiology of brain/behavior relationships and topics related to the biological basis of behavior. Explores the basic physiology of neuronal and synaptic transmission, neurochemistry, and clinical neuropharmacology. Emphasis on understanding how brain biology relates to issues surrounding human motivation, appetite, reward, language, hemispheric lateralization, and certain disease processes such as schizophrenia and bipolar illness. A weekly MacLab component is included in the course. Prerequisites: PSY 30153 Theories of Personality, PSY 30353 The Psychology of Abnormal Behavior, BIO 10043/42 Principles of Biology and Lab, and BIO 20343/42 Human Anatomy and Physiology. 4 hrs.

**PSY 41053/42053 Internship in Psychology** Taken after completion of major courses. 1-8 hrs.
RELIGION and PHILOSOPHY

The disciplines of religion and philosophy are of crucial importance and urgent relevance. First, they are important and relevant because they seek to investigate systematically the most basic and profound questions which human beings ask. Questions of origins, meaning and purpose cut to the core of human existence and experience; how they are answered profoundly shapes who we become. Religion and philosophy take on the “big questions” of life.

These disciplines are important for the perspective of the humanities branch of the liberal arts. A liberal arts education seeks to prepare an individual not just for a job, but for living a truly human life. It is in this sense that religion and philosophy are indispensable components of the humanities. These disciplines stretch beyond the mere development of technical and vocational competence to the development of intellectual skills and capacities in general, intellectual skills and capacities which may be applicable to any number of vocations and situations. For example, it is good to know how to fix a motor or split an atom. But even these skills must be located within the broader context of how to think and how to live. Questions of how to think and how to live are religious and philosophical questions, questions concerning what it means to be fully human, questions for the humanities.

Ottawa University, being committed to “it Christian heritage (and) its liberal arts emphasis,” remains deeply committed to the study of religion and philosophy. The religion and philosophy course offerings aim at helping the student to: 1) gain Biblical, theological and philosophical knowledge; 2) develop cognitive skills through disciplined analysis and construction of arguments; 3) deepen moral understanding; 4) consider Christian commitment in relation to other religions and worldviews, and 5) put his or her convictions into practice through serving others. The courses have been designed to deepen and clarify the commitments of students who enroll for personal enrichment as well as to assist the preparation of those who may be aiming at a more formal vocation within the church.

Courses Offered:
REL 10223 Introduction to the Gospels Examines historical background to the Gospels, the uniqueness of the genre, and the content of the four Gospels with sensitivity to the particular theological emphases of each of the evangelists. 3 hrs.
REL 11023 Christian Thought Introduces basic theological categories traditionally included within Christian systematic theologies: Revelation, God Christology (the doctrine of Christ) and Ecclesiology (the doctrine of the Church). Categories are approached from both a historical and a contemporary perspective. 3 hrs
REL 20123 Biblical Book An in-depth study of a particular Biblical book, varies from year to year. 3 hrs.
REL 20323 Pentateuch Survey of the theologically central documents of the Hebrew Bible. Designed to acquaint students with the characters, concepts, and events which lay the foundations for the Jewish, Christian (and in some cases, Muslim) religious traditions. 3 hrs
REL 21023 Christian Thought II Promotes further reflection upon central Christian doctrines: Pneumatology (the doctrine of the Holy Spirit); Anthropology (the doctrine of humanity); Soteriology (the doctrine of salvation) and Eschatology (the doctrine of the last things). 3 hrs
REL 30224 Christian Ethics Survey of various approaches to Christian ethics from the standpoint of various Christian traditions. Application will be made to contemporary issues such as abortion, euthanasia, environmental and sexual ethics. Prerequisites: REL 10223 Introduction to the Gospels and REL 11023 Christian Thought I. 3 hrs.
REL 30623 Christian Worldview and Challenge Examines concept of worldview and its importance. Surveys a number of viable contemporary worldview options (e.g., Marxist, Darwinian Evolutionistic, New Age, Postmodern) and analyzes them in light of their philosophical coherence and relationship to orthodox Christianity. 3 hrs.
REL 31523 Issues in Science & Religion Explores scientific methodology, religious methodology and the relationship between these domains of inquiry. Brief survey of the historical relationship between science and religion (e.g., Christianity and the rise of western scientific method, the Galileo affair, etc.) and contemporary controversies issues such as BIG BANG and evolution. 3 hrs.
REL 33823 Christianity and World Religions Set in historical perspective. Basic teachings. Alternate years. Prerequisites: REL 10223 Introduction to the Gospels and REL 11023 Christian Thought I. 3 hrs.
REL 41023/42023 Internship Supervised field work in a church, religious or social organization. The internship is designed to provide opportunity for those aiming at a vocation within the church to confirm their vocational calling, gain practical experience in a ministry setting, and to put moral and theological principles and reflection into practice. 2-4 hrs.

Required Major Courses:

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PHL 11023</td>
<td>Basic Issues in Philosophy</td>
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<tr>
<td>PHL 31023</td>
<td>Ethics and Society</td>
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<tr>
<td>REL 10223</td>
<td>Introduction to the Gospels</td>
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<tr>
<td>REL 11023</td>
<td>Christian Thought I</td>
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<td>REL 21023</td>
<td>Christian Thought II</td>
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<td>REL 20123</td>
<td>Biblical Book</td>
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<td>REL 20323</td>
<td>Pentateuch</td>
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<td>REL 30224</td>
<td>Christian Ethics</td>
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<td>REL 30623</td>
<td>Christian Worldview and Challenge</td>
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<tr>
<td>REL 31523</td>
<td>Issues in Science and Religion</td>
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Required Supporting Courses (choose one)

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<th>Course Code</th>
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<tbody>
<tr>
<td>ENG 23723</td>
<td>Intermediate Writing</td>
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<tr>
<td>ENG 31053</td>
<td>Advanced Expository Writing</td>
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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.

Sociology Emphasis

Required Major Courses:

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<tr>
<td>SOC 10153</td>
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<td>SOC 10453</td>
<td>Introduction to Sociology</td>
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<td>SOC 11753</td>
<td>Social Problems and American Values</td>
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<tr>
<td>SOC 26053</td>
<td>Cultural Anthropology</td>
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<td>SOC 25553</td>
<td>Special Topics</td>
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<tr>
<td>SOC 30653</td>
<td>Ethnic Relations and Multiculturalism</td>
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<td>SOC 30753</td>
<td>Human Sexuality</td>
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<tr>
<td>SOC 32253</td>
<td>Research Design and Analysis</td>
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<tr>
<td>SOC 40753</td>
<td>Sociology of Deviance</td>
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<tr>
<td>SOC 40854</td>
<td>Field Research</td>
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<td>HPS 25453</td>
<td>World Civilization II</td>
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<td>ECO 20163</td>
<td>Macroeconomics</td>
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<td>MAT 32044</td>
<td>Statistics</td>
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<td>PSY 32153</td>
<td>Social Psychology</td>
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<tr>
<td>MIS 20043</td>
<td>Database Systems</td>
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<tr>
<td>HPS 13354</td>
<td>American Government</td>
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<tr>
<td>SPA 10124</td>
<td>Elementary Spanish</td>
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Anthropology Emphasis

Required Major Courses:

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<td>SOC 10453</td>
<td>Introduction to Sociology</td>
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<td>SOC 26053</td>
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<td>SOC 25553</td>
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<td>SOC 32253</td>
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<tr>
<td>ART 20623</td>
<td>Art History I</td>
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<td>BIO 31143</td>
<td>Field Ecology</td>
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<tr>
<td>ENG 31723</td>
<td>Multicultural Literature</td>
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<tr>
<td>SPA 10124</td>
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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 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 Intergroup and intragroup experiences of the various ethnic populations within the U. S. The impact of integration, discrimination, prejudice, and the social dynamics of conflict and assimilation are examined in relationship to various groups. Prerequisite: SOC 10153 Social Thought or SOC 10453 Introduction to Sociology. 3 hrs.

SOC 30753 Human Sexuality An interdisciplinary approach based on the fact that sexual behavior reflects biological capabilities, psychological characteristics, and social and cultural influences. Topics include gender roles, sexual attitudes and behaviors, sexual health and sexually responsible decision making. 3 hrs.

Continued on next page
SOC 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.

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.

SPANISH

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

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.

*Applied Theatre is taken each semester (maximum of eight) except while enrolled in Theatre Practicum or Performance Comprehensive.

**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, 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 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.

**Continued on next page**

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.

UNIVERSITY COURSES

Courses Offered: UNV 11011 Principles of Academic and Personal Development Attention to the development of skills necessary for the successful student: study skills, test taking, overcoming test anxiety, time management, and note taking. Brings students into contact with personal issues such as conflict resolution, stress management, money management, goal setting, and career development 1 hr.

UNV11112 Introduction to College Skills: Reading Develops increased depth and rate of reading comprehension, Concentrated emphasis on critical reading skills and vocabulary expansion. 2 hrs.

UNV 11213 Introduction to College skills: Writing Concentrated review and practice of sentence structure, grammar, paragraph development, and essay format. Writing essays of various types with revisions is stressed. 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 uniquely designed for the particular student. For that reason, no courses are listed as part of the individualized major.

Pre-Professional Programs

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

In keeping with the need for a broad background of knowledge, pre-ministerial students are urged to be sure that they have an adequate introduction to the major areas of liberal arts study and, in particular, to the disciplines dealing with the study of society, government, economics, ethics, philosophy, literature, human behavior, and the arts. In addition, pre-ministerial students are encouraged to acquire particular kinds of managerial and interpersonal skills that will be of use in their 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 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 the preparation for the use of the English language in its written and oral forms. In addition, students are encouraged to consider that the practice of law involves the handling and administration of other people's money and estates and will also involve dealing with all types of individuals. Thus, students are well advised to seek those courses which prepare them to understand human growth and development, general psychological principles, and sufficient accounting or related business courses to familiarize them with the administrative details of the handling of financial affairs. Therefore, in addition to the student's specific major field, the following courses should be considered as recommended for pre-law majors:

- ENG 23723 Intermediate Writing
- ENG 31023 Advanced Expository Writing
- SPH 11023 Speech Preparation and Delivery
- ACC 20364 Accounting for Business Operations
- ACC 20464 Accounting for Financing and Investing Activities
- ECO 20163 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 be prepared 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 in a variety of different disciplines as long as the specific courses are included in the under-graduate program to satisfy some of the expectation for admission to the professional or graduate program of medicine or dentistry.

To assist in the process, the University provides a Health Professions Committee that can be of considerable assistance in both advising and counseling students on the appropriate course selection and procedures for pursuing entrance to professional school. Faculty in the department in which the student is majoring provides graduate school advising. 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 just such a liberal arts education. The pre-engineering curriculum is designed to do this while providing a grounding in science and mathematics courses to prepare the student for the upper level engineering courses which he/she will encounter after transferring to an engineering college to complete his/her studies.

The pre-engineering program operates as follows: The student meets with the Pre-Engineering Advisor at Ottawa University and develops a contract. In most cases all the requirements for a degree from Ottawa can be met in the three-year period except for the 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 is made concerning the 124 credit hour requirement. When Ottawa University receives official transcripts showing that these additional courses and hours have been completed, a Bachelor of Arts degree 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 mathematics courses at Ottawa University, see the required major courses for mathematics in this catalog.

The student should be prepared with a solid mathematics background in high school work, including geometry, two years of algebra and trigonometry or pre-calculus. In addition to the technical courses, courses in such areas as English composition, psychology, religion, sociology, and economics not only to 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**

Instructors design a selected number of courses so that they may be taken by arrangement during a regular enrollment period: fall, spring, or summer. Not all such courses will be available at any given time depending upon the schedule and responsibilities of 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 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 another faculty member has recommended the student to the supervisor.
- 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 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’s Office. 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 scheduling conflicts occasion-ally arise. To facilitate student progress toward their educational goals, selected courses in the catalog have been designed by instructors to be available
for enrollment without the usual frequent classroom meeting schedule. The courses are pre-designed rather than open to a variety of topics as would be the case in Independent Study enrollments. Nevertheless, only students with considerable motivation and self-direction should attempt these courses. To make Directed Studies a viable option for students and faculty, the following must be satisfied:

- 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 are treated like other regularly scheduled classes and 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 work on the job for 20 hours/week for a full 16 week semester. Internship courses are designated by the number 410 _ _ and 420 _ _. Participation in these courses requires an approved contract as well as approval from the academic supervisor of the internship and the student's program advisor.
FACULTY

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- Division of Business and Science:
  Dr. Robert G. Duffett

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  Jim Herron
- Psychology
  Mark Discher
- Religion and Philosophy
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- Sociology
  Barry B. King
- Speech, Communication
  Larry D. Peters
- Theatre

Division Listing by Department
Arts and Humanities
- Art
- Education
- English
- History/Political Science
- Language
- Music
- Physical Education
- Religion
- Philosophy
- Theatre

Business and Sciences
- Academic Achievement Program
- Accounting
- Biology
- Business
- Chemistry
- Communication
- Human Services
- Math
- Management of Information Systems
- Physics
- Psychology
- Sociology
Emeriti
Charles C. Anderson (1961–1997)

Professor Emeritus 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 (1961–1999)
Professor Emeritus of History and Political Science, B.A., Texas Technological University, 1956; M.A., ibid., 1958; Ph.D., University of Kansas, 1970; M.H.L., Ottawa University 1972.

Billy G. Ballinger (1965–1999)
Associate Professor Emeritus of Psychology, B.A., Southwestern College, 1959; M.S., Mankato State College, 1961; M.H.L., Ottawa University, 1972.

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 (1963–1994)
Assistant Professor Emeritus 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 (1968–1996)
Professor Emeritus 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.

Stanley DeFries (1968–1988)
Professor Emeritus of Music, B.M., Ottawa University, 1950; M.Mus., Indiana University, 1959; Ph.D., ibid., 1966; M.H.L., Ottawa University, 1972.


Professor Emeritus of Education, B.S. University of Kansas, 1942; M.S., ibid., 1952.

Assistant Professor Emeritus 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.


J. Edward Morrissey (1968–1999)
Professor Emeritus of Biology, B.A., St. Ambrose College, 1956; M.S., Northwestern University, 1958; Ph.D., University of Missouri, 1968; M.H.L., Ottawa University, 1972.

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.

Professor Emeritus of Economics and Organization Administration, Associate Dean for Graduate Studies, B.S., Kent State University, 1955; M.A., Ohio State University, 1958; D.B.A., Indiana University, 1969; M.H.L., Ottawa University, 1971.

Joyce A. Steurer (1971–1996)
Assistant Professor Emeritus of Music, B.A., Ottawa University, 1952; M.A., University of Kansas City, 1963.


Active

Arabie Adams (1996)

Rodrigo Arrija (1998)
Associate Professor of International Business, B.S., National University of Mexico; MBA, National Polytechnic Institute (Mexico); Ph.D., University of Colorado.

Mary Ann Benner (1996)
Assistant Professor of Education, Director of Teacher Education Program, B.A., Webster University, M.A., Webster University, M. A., Central Michigan University, Ed.D., University of Missouri, Columbia

James C. Billick (1968)
Professor of Political Science, Vice President, The College and Academic Affairs, B.A., Ohio State University, 1963; M.P.I.A., University of Pittsburgh, 1965; Ph.D., ibid., 1970; M.H.L., Ottawa University, 1972.

Virginia Boyle (1992)
Associate Professor of Education, B.S., Youngstown State University 1956; M.Ed., Westminster College 1967; Ph.D., University of Pittsburgh, 1972.

William A. Breyspraka (1977)

Andrew R. Carrier (1990)
Assistant Professor of Physical Education, Head Men's Basketball Coach, B.A., Bethany College, 1981; M.S., Emporia State University, 1986.

June W. Clark (1990)
Assistant Professor of Human Services, B.A., Marymount College, 1981; M.S.W., Arizona State University, 1986; M.H.L., Ottawa University, 1997.

Donald A. Clauzer (1994)
Assistant Professor of Anthropology, Director of Milwaukee Center, B.S., University of Wisconsin-Milwaukee, 1971; M.S., ibid., 1973; Ph.D., ibid., 1980.

Kim E. Coffman (1994)

Christopher Creighton (1997)

Deaton, Nevin K. (1999)

Barbara Dinneen (1996)
Assistant Professor of English, A.B., Oberlin College; M.A., Washington University, 1985; Ph.D., Washington University, 1990.

Mark Discher (1997)
Assistant Professor of Religion, B.A., Wheaton College, 1986; M. Div., Fuller Theology Seminary, 1991; M.S.Th., Yale University, 1993; D. Phil., Oxford University, 1997.

Robert G. Duffett (1996)

Associate Professor of Psychology, B.A., Presbyterian College, 1969; M.A., University of South Carolina, 1971; Ph.D., ibid., 1973; A.B.P.P. (Dipl.), 1983.

Daniel L. Fox (1982)
Associate Professor of History, B.A., Brigham Young University, 1969; M.A., ibid., 1970; M.H.L., Ottawa University, 1989.

Ronald A. Frost (1990)
Professor of Psychology, Wheaton College, 1958; B.S., M.A., Arizona State University, 1965; Ph.D., ibid., 1973; M.H.L., Ottawa University, 1993.
Victoria A. Gamber (1996)
Associate Professor of Psychology, B.A., University of Oklahoma, 1965; Graduate Certification in Education, University of California, 1966; Ph.D., University of Pittsburgh, 1975.

Harold D. Germer (1989)
Associate Professor of Religion, University President, B.A., Denison University, 1957; B.D., Andover Newton Theological School, 1961; M.H.L., Ottawa University, 1971; D.Ed., Alderson-Broaddus College, 1988.

Alan Goldman (1997)
Associate Professor of Communications and Psychology, B.Ed., University of Miami, 1968; M.A., San Francisco State University, 1971; Ph.D., University of Colorado, 1976.

Elise Jepson Green (1999)

Susan D. Harmison (1991)
Assistant Professor of Education, B.Ed., Washburn University, 1975; M.S., Kansas State University, 1984.

Rosalie R. Hedlund (1981)

James D. Herron (1997)
Assistant Professor of Psychology, Campus Pastor, B.A., Wichita State University, 1980; M.A. Wichita State University, 1983; M.Div., Central Baptist Theological Seminary, 1991.

Byron W. Jensen (1990)
Associate Professor of Music, B.M.E., University of Northern Colorado, 1979; M.M., Kansas State University, 1987; Ph.D., ibid., 1990, M.H.L., Ottawa University, 1996.

H. Dean Jernigan (1996)
Associate Professor of Education, Director of Secondary Education, Ottawa Campus, B.S.E., Emporia State University, 1963; M.S., ibid., 1964; Ed.D., University of Kansas, 1974.

Gregory R. Jones (1995)
Associate Professor of Communication, A.B., Dartmouth College, 1968; M.F.A. Smith College, 1973; Ph.D., University of Massachusetts, 1986.

Barry B. King (1990)
Assistant Professor of Communication, B.S., West Texas State University, 1969; M.A., ibid., 1990, M.H.L., Ottawa University, 1996.

Paulette Krenke (1993)
Assistant Professor of Education, B.A., Lea College 1970; M.S., Mankato State University, 1974; EdD., Ariona State University, 1993.

Janice E. Lee (1967)
Associate Professor of Education, B.A., Ottawa University, 1964; M.L.S., Kansas State Teachers College of Emporia, 1970; M.S., Emporia State University, 1985; M.H.L., Ottawa University, 1989.

Frank J. Lemp (1980)
Associate Professor of Art, B.A., Ottawa University, 1972; M.A., University of Kansas, 1980; M.H.L., Ottawa University, 1987.

Donna M. Levene (1993)
Professor of Administration, Provost of Kansas City Center, B.S., Southwest Missouri State University, 1968; M.A., California State University, Long Beach, 1972; Ph.D., The Claremont Graduate School, 1980; J.D., University of Missouri at Kansas City, 1990; M.H.L., Ottawa University, 1996.

Alice Joy Lewis (1967)

Tom B. Lewis (1965)

Jerry Malizia (1994)
Associate Professor of Education, B.A., Aquinas Institute, 1961; M.A., ibid., 1962; M.A., Ottawa University, 1996; Ph.D., University of Arizona, 1972.

John G. Mansour (1996)

Wade A. Mauland (1996)
Assistant Professor of Education and Administration, B.S., Illinois State University, 1983; M.S., Illinois State University, 1986; Ph.D., University of Wisconsin-Milwaukee, 1996.
Jack D. Maxwell (1983)
Instructor of Management Information Systems and Director of Information Technology, B.S., Purdue University, 1968; M.S., Washington State University, 1969; M.S., Purdue University, 1972; Ph.D., ibid., 1974.

William Maxwell (1993)
Professor of Education and Educational Psychology, B.S., Oregon State University, 1952; Ed.D., Harvard University, 1964; Ed.D., ibid., 1967.

Richard Menninger (1999)

Karen Mitchell (1976)
Associate Professor of Political Science, B.A., Upsala College, 1963; M.A., University of Missouri at Kansas City, 1976; M.H.L., Ottawa University, 1983.

L. Murle Mordy (1973)
Professor of French, Director of English Language Institute, and International Student Advisor, B.A., Kansas State University, 1963; M.A., ibid., 1965; M.Ph., University of Kansas, 1969; Ph.D., ibid., 1979; M.H.L., Ottawa University, 1989.

John Neal (1977)
Associate Professor of Education, Vice President for Adult and Professional Studies, B.S., Free Will Baptist College, 1981; M.A., Middle Tennessee State University, 1986; Ed.D., George Peabody College of Vanderbilt University, 1990.

Neal Neathery (1997)

Robert F. Oberstein (1993)
Assistant Professor of Social Science, B.A., St. John's University, 1971; M.S., Long Island University, 1977.

Larry D. Peters (1988)
Associate Professor of Speech and Theatre, B.A., Buena Vista College, 1975; M.A., University of South Dakota, 1978; M.H.L., Ottawa University, 1994.

Jeff Poet (1998)
Assistant Professor of Mathematics, B.A., Ottawa University, 1990; M.S., Kansas State University, 1991; Ph.D., University of Wyoming, 1998.

Jeffery Port (1999)
Assistant Professor of Biology, B.S., Bethel College, 1990; Ph.D., University of Minnesota, 1998.

Lora K. Reiter (1969)
Professor of English, B.A., University of Kansas, 1961; M.A., St. Louis University, 1965; Ph.D., University of Kansas, 1975; M.H.L., Ottawa University, 1972.

Thomas P. Roche (1994)

Frederick Romero (1988)
Associate Professor of Psychology and Human Services, Dean of Phoenix Center, B.A., Ottawa University, 1980; M.A., Northern Arizona University, 1981; M.H.L., Ottawa University, 1995.

Mark Roselli (1999)
Assistant Professor of Management, B.A. Webster University, 1992; MBA Avila College, 1995; Ph.D. (ABD) University of Missouri at Kansas City

Tonia L. Salvini (1991)
Assistant Professor of Human Services, B.A., Baker University, 1979; M.S.W., University of Kansas, 1983.

Michael A. Sancho (1968)
Professor of Chemistry, B.S., Massachusetts Institute of Technology, 1961; Ph.D., University of Kansas, 1967; M.H.L., Ottawa University, 1972.

Peter G. Sandstrom (1968)
Professor of Philosophy, B.A., Amherst College, 1960; B.D., Yale Divinity School, 1963; M.A., Yale University, 1966; Ph.D., ibid., 1970; M.H.L., Ottawa University, 1971.

William T. Schwartz (1996)

Mark Smith (1999)
Assistant Professor of History and Political Science, B.A., Quincy College, 1984; M.A., University of Kansas, 1988; J.D. University of Kansas School of Law, 1993; Ph.D., University of Kansas, 1995.
Kelly K. Steanson (1987)
Assistant Professor of Sociology, B.A., Ottawa University, 1981; M.A., University of Kansas, 1989; M.H.L., Ottawa University, 1995.

Associate Professor of Education, Director of Academic Affairs, B.A., University of Oklahoma, 1969; M.A., Ottawa University, 1990; M.H.L., ibid., 1995.

Jeanne K. Swarthout (1993)
Assistant Professor of Anthropology, B.A., Arizona State University, 1970; M.A., Florida State University, 1974; Ph.D., Arizona State University, 1986.

Assistant Professor of Music, B.A., Cumberland College, 1986; M.M., Eastern Kentucky University, 1988; D.M.A, University of Memphis, 1999.

Henry S. Tillinghast (1999)
Associate Professor of Biology, B.S. Kansas State University, 1971; M.S., Kansas State University, 1973; D.Phil. (Ph.D.) Oxford University, 1985.


Joyce Werner (1996)

Kirk Wren (1996)
Instructor of Physical Education and Head Men’s and Women’s Track and Cross Country Coach, B.S., Fort Hays State University, 1989; M.A., University of Missouri at Kansas City, 1994.

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Student Affairs, Housing, Health Service

Paul Rittof, Dean of Student Development  Ext. 5560
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