

## **ADDITIONAL GRADUATE COURSE OFFERINGS**

Anthropology .....	189
Board of Study for the Teaching of Science and Mathematics .....	190
Computer Science .....	191
Criminal Justice .....	193
Earth Sciences .....	195
Foreign Languages and Literatures.....	197
Music .....	199
Philosophy .....	200
Political Science and International Studies .....	201
Professions .....	202
Sociology .....	203
Theatre .....	204
Women's Studies .....	205

## DEPARTMENT OF ANTHROPOLOGY

(585) 395-2682

*Co-chairpersons and Associate Professors:* Charles R. Edwards, PhD, SUNY Buffalo; and LouAnn Wurst, PhD, SUNY Binghamton; *Professors:* Margaret B. Blackman, PhD, Ohio State University; Douglas A. Feldman, PhD, SUNY Stony Brook; Jack R. Rollwagen, PhD, University of Oregon.

While the Department of Anthropology does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through the advisement process.

### ANTHROPOLOGY COURSES

**ANT 501 Native American Art and Culture (A).**

Provides a survey of Native-American visual arts (north of Mexico) viewed within the context of Native-American cultures and through the framework of anthropology. Considers Native-American arts by culture area: their roots, traditional expressions, changes with European contact, and contemporary expressions. Relies heavily upon the use of audiovisual material. *3 Cr.*

**ANT 503 Biography and Life History (A).**

*Cross-listed as WMS 503.* Studies the expression of life stories, their collection and recording, and their presentation in written format. Includes the evolution of the life history in anthropology and oral history; genres of life history; gender and life stories; the life history as an expression of the self vs. the life history as a window on culture; and the limitations of life history research. *3 Cr.*

**ANT 505 Applied Anthropology (A).**

Examines applied anthropology as the subfield of anthropology that uses anthropological perspectives to analyze and provide solutions for societal problems in the US and globally. Using case studies and hands-on projects, explores the theoretical, practical and ethical implications of applied anthropology. Primarily for students who will ultimately need to address a variety of applied problems in multicultural or nonwestern settings. *3 Cr.*

**ANT 540 Historical Archaeology (A).**

Provides a survey of the field of American historical archaeology. Examines the rationale, methods and theories for the archaeological investigation of the recent past. Explores the insights gained on particular social issues, such as class, ethnicity and slavery, where historical archaeology has played a role. *3 Cr.*

**ANT 541 Archaeological Analysis (A).**

Presents contemporary laboratory methods used to identify patterns in artifacts and field data recovered from archaeological site surveys and excavations.

Students learn to analyze, interpret, manage, and conserve artifacts and field data. *3 Cr.*

**ANT 542 Field Methods in Archaeology (A).**

As a field-based course, introduces students to the methods used by archaeologists to collect data in the field. Allows students to participate in an archaeological dig at an actual site off-campus, and perform all the duties involved in that work. Includes activities such as survey, mapping, testing, excavation, documenting and recording finds, and processing artifacts in the lab. *6 Cr. Summer*

**ANT 545 Teaching Archaeology in Elementary Schools (A).**

Considers archaeology as a unique discipline that integrates techniques of the natural sciences with a critical inquiry approach found in the social sciences to collect data and interpret aspects of the human past. Explores the strategies that archaeologists use to collect, process and interpret their data. Provides the framework to explore strategies for integrating archaeology as a way of knowing across the elementary curriculum. *3 Cr.*

**ANT 590 Topics in Anthropology (A).**

As an advanced course, addresses current topics, issues, controversies, etc. of anthropological significance. Specific topics vary from semester to semester and may address issues in physical anthropology, archaeology, cultural anthropology or applied/developmental anthropology. Descriptions of specific topics courses offered in any particular semester may be obtained through the department. May be taken more than once for credit if topics differ. *3 Cr.*

**ANT 599 Independent Study in Anthropology (A).**

Established in consultation between student and instructor. *1-6 Cr. By Arrangement.*

**ANT 699 Independent Study in Anthropology (A).**

Established in consultation between student and instructor. *1-6 Cr. By Arrangement.*

## BOARD OF STUDY FOR THE TEACHING OF SCIENCE AND MATHEMATICS

(585) 395-5576

*Chairman and Associate Professor, Physics:* Richard V. Mancuso, PhD, SUNY Buffalo; *Members: Distinguished Service Professor, Education and Human Development:* Betsy C. Balzano, PhD, Florida State University; *Assistant Professor Emeritus, Education and Human Development:* Walter F. Brautigan, PhD, Cornell University; *Associate Professor, Chemistry:* Kenneth D. Schlecht, PhD, University of Iowa.

The Board of Study was created in natural and mathematical sciences to work for the improvement of science and mathematics teaching. Its intent is to supplement departmental efforts and to carry out functions and programs not within the interest of a single department or appropriately administered through one department.

Graduate-level subject-matter courses emphasizing the fundamental principles of the sciences and mathematics are scheduled by the Board of Study. Advisement services and courses specifically designed for teachers at the elementary and secondary school levels are available on a regular basis. Acceptability of natural science courses toward a graduate degree is determined in consultation with the student's major advisor.

### NATURAL SCIENCE COURSES

**NAS 525 Peer-Led Workshops for College Chemistry CHM 205/206 (A).** Students receive training in peer leading workshop chemistry session averaging 1 hour per week before leading small groups of CHM 205/206 students in solving of problems for 2 hours per week. Training includes pedagogical aspects, group dynamics and chemistry content. Students will also learn how to develop workshop modules. Instructor's permission required. *1 Cr.*

**NAS 586 Laboratory Science Safety (A).** Covers safe lab teaching practices for science teachers with no prior safety instruction. Emphasizes hazard potential in biology, chemistry, earth science/geology, and physics, especially when working with chemicals. Includes three hours of lecture/lab per week. *3 Cr.*

**NAS 599 Independent Study in Natural Science (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-6 Cr. By Arrangement.*

**NAS 611 Science for Elementary Teachers (A).** Designed for elementary teachers with little formal science background. Investigates selected major concepts through the lab approach using simple, easily obtainable materials that can be used by teachers in the classroom. *3 Cr.*

**NAS 663 Field Natural History (A).** Studies the principles of ecology and conservation in actual field locations. Uses taxonomic principles and field recognition of common species to develop an understanding of natural relationships. Students develop individual projects related to their interests. *3 Cr.*

**NAS 673 Physics for Teachers I (A).** Covers selected topics in kinematics, mechanics and thermodynamics.

Gives considerable attention to student participation in planning and performing experiments and demonstrations. Entails eighty hours of workshop. *4 Cr.*

**NAS 678 Astronomy for Teachers (A).** Studies the solar system, interrelationships of its members, and its place in the cosmos; of the sun as a star; and of theories of the origin and evolution of stars, systems, and of the universe. Stresses the evaluation of evidence; and through lab, field and planetarium work, emphasizes familiarity with the sky. Requires a project. *4 Cr.*

**NAS 683 Physics for Teachers II (A).** Covers selected topics in optics and electromagnetism. Gives considerable attention to student participation in planning and performing experiments and demonstrations. Entails eighty hours of workshop. *4 Cr.*

**NAS 693 Physics for Teachers III (A).** Covers selected topics in modern physics. Gives considerable attention to student participation in planning and performing experiments and demonstrations. Entails eighty hours of workshop. *4 Cr.*

**NAS 695 Chemical Lecture Demonstrations (A).** Helps teachers use, develop and practice chemistry lecture demonstrations. Requires participants to obtain detailed instructions and practice several demonstrations and present them to their classmates. *1 Cr.*

**NAS 698 Research for Teachers (A).** Enables students to participate in research projects in the natural sciences. May consist of construction of electronic and/or mechanical devices, computations, data collection and analysis and interpretation of results.

*1-6 Cr. By Arrangement.*

## DEPARTMENT OF COMPUTER SCIENCE

(585) 395-2146

*Chairperson and Professor:* Kadathur B. Lakshmanan, PhD, Ohio State University; *Professors:* Kulathur S. Rajasethupathy, PhD, Tata Institute; Thambrahalli M. Rao, PhD, Indian Institute of Science; *Associate Professors:* Joan M. Lucas, PhD, Princeton University; Sandeep R. Mitra, PhD, SUNY Binghamton; Anthony Scime DA, George Mason University; *Assistant Professors:* Vishal Anand, PhD, SUNY Buffalo; Wan Huang, PhD, University of Alabama, Tuscaloosa; Alexander R. Yakhnis, PhD, Cornell University; *Lecturer:* Daniel F. Rogers, MS, Syracuse University.

Computer science is the study of theory and practice of computation. It incorporates aspects of several other fields: mathematics, to analyze the properties of algorithms and data structures; engineering, to design and construct practical programs and machines; the experimental sciences, both to investigate the behavior of programs running on real machines and to use programs for modeling scientific phenomena; and the cognitive sciences, to develop "intelligent" programs and to study computation in relation to human intelligence.

Computer science is a young and rapidly developing field. Its chief areas of specialization, reflected in regular course offerings at SUNY Brockport, are: programming methodology; design and analysis of algorithms, software engineering and programming languages; database systems; e-commerce; computer architecture; systems programming; computer security; artificial intelligence; and networking. Other areas are covered in independent-study and topics courses.

Although the department does not offer a graduate degree program, a variety of courses are offered at the graduate level.

### COMPUTER SCIENCE COURSES

**CSC 501 Theory of Programming Languages (A).** *Prerequisite:* CSC 311. Covers programming language concepts, description, design and evaluation. Includes these topics: language families and history; design principles; BNF and other syntax notations; compilation vs. interpretation; implementation concepts; comparison of features and conventions of various languages, including: data types, structures, declaration, abstraction, binding, scope, conversion and protection; computational primitives; control structures; sub-programs; I/O; exceptions; concurrency; preprocessors; and programming environments. Requires extensive programming. *3 Cr. Every Semester.*

**CSC 506 Algorithms and Data Structures (A).** *Prerequisites:* CSC 205 and MTH 481. Covers the design and analysis of data structures and associated algorithms. Includes these topics: arrays, strings, stacks, linear and generalized lists, multilists, multirings, queues, sets, hashing, trees, graphs, recursion, searching and sorting, and applications such as text processing, polynomials, sparse matrices, storage management and unlimited-precision arithmetic. Requires extensive programming and supervised lab sessions. *4 Cr. Every Semester.*

**CSC 511 Computer Architecture (A).** *Prerequisites:* CSC 303 and CSC 311. Covers the design and organization of digital computers. Includes these topics: digital logic and circuit design, data representation, registers, memories and memory management, CPU and ALU architectures, instruction sets, busses and I/O systems, interrupt structure and microprogramming. Also includes virtual machines, parallelism, pipelining and data flow machines. *3 Cr. Every Semester.*

**CSC 512 Operating Systems (A).** *Prerequisites:* CSC 303 and CSC 311. Recommended: CSC 319 or knowledge of C and UNIX. Covers basic principles of operating systems. Includes these topics: file systems, CPU scheduling and context switching, memory management and virtual memory, disk scheduling, deadlock, concurrent processes and programming, protection mechanisms, design principles and attempts at standardization. Also includes an in-depth study of the UNIX operating system. Requires extensive programming. *3 Cr. Spring.*

**CSC 519 Computer Networks (A).** *Prerequisites:* CSC 303, CSC 311 and CSC 319. Offers a comprehensive study of the field of computer communications, with emphasis on theoretical aspects of local area networks. Compares specific LANs. Includes these topics: the ISO model, protocols,

topologies, error detection and correction, routing, packet switching, virtual circuits, and datagrams.  
*3 Cr. Spring.*

**CSC 521 Computer and Network Security (A).**

*Prerequisite:* CSC 319. Studies concepts, techniques and tools in computer and network security. Includes these topics: security, privacy, information assurance, threats, user authentication and access control; Unix and Windows NT/2000 examples; logs and intrusion detection; cryptography, public-key systems; Kerberos authentication; IP security, firewalls; Web and database access control and security issues; ethical issues. *3 Cr. Fall.*

**CSC 522 Relational Data Base Design (A).**

*Prerequisite:* CSC 205. Examines the theory and practice of the relational approach to database design. Includes these topics: DBMS vs. a traditional file processing; relational algebra; normalization; lossless and/or dependency preserving decomposition; query languages such as SQL and a language that is available on the system; query optimization; integrity and security; and database project design. Requires extensive programming. *3 Cr. Fall.*

**CSC 527 Software Systems Engineering (A).**

*Prerequisite:* CSC 311. Introduces software engineering and programming-in-the-large. Includes these topics: life cycle models, development standards, project organization, requirements engineering, configuration management, quality assurance, cost and manpower estimates, specification techniques, design methods and representations, human factors, structured programming, object-oriented programming, testing and integration, validation, maintenance and documentation. Allows students to work as a project team in class developing a system for an actual customer. Requires communication and writing skills, and extensive programming. *3 Cr. Fall.*

**CSC 529 Object-Oriented Programming (A).**

*Prerequisite:* CSC 205. Introduces basic concepts in object-oriented programming (OOP) and how to apply OOP techniques using an appropriate OOP language such as Java or C++. Includes these topics: the OOP programming paradigm, including analysis and design, a survey of related languages, data hiding and encapsulation, inheritance and polymorphism. Entails implementation of these concepts using appropriate programming language constructs. Requires extensive programming. *3 Cr. Spring.*

**CSC 534 Artificial Intelligence (A).**

*Prerequisite:* CSC 205. Introduces artificial intelligence and its languages. Includes these topics: history and state of the art in AI; programming techniques in the languages LISP and PROLOG; fundamental methods in AI, including heuristic search; knowledge representation using predicate logic and production systems; and

classic basic problems involving games, graphs, theorem proving, symbolic algebra, expert systems, natural language, etc. Requires extensive programming.  
*3 Cr. Spring.*

**CSC 542 Electronic Commerce Technology (A).**

*Prerequisite:* CSC 422 or CIS 422. Surveys electronic commerce technologies and realities and studies defining tools of e-business to understand the manner in which users, tools, needs and opportunities interact. Includes these topics: infrastructure of e-commerce and the design and implementation of e-business portals using network and database technologies; data/Web mining; and security/encryption techniques for finding and negotiating with trading partners to execute electronic transactions. *3 Cr. Fall.*

**CSC 544 Introduction to Parallel Computing (A).**

*Prerequisites:* CSC 406 and MTH 481. Deals with design and analysis of parallel algorithms. Includes these topics: parallel models of computation; measures of complexity; parallel algorithms for selection, searching, sorting, and merging; matrix algorithms; transitive closure; connected components; and shortest path, minimum spanning tree and routing algorithms. Provides hands-on experience in a parallel programming environment. *3 Cr. Spring.*

**CSC 583 Theory of Computation (A).**

*Prerequisites:* CSC 203 and MTH 481. Studies formal languages and theory of automata with an emphasis on Church's thesis, "algorithm = machine" point of view. Includes these topics: regular expressions and context-free languages, finite and pushdown automata, Turing machines, computability, undecidability and complexity of problems. *3 Cr. Spring.*

**CSC 595 Topics in Computer Science (A).**

*Prerequisites:* Published prior to registration each semester. As an advanced course, addresses current topics in the field. Each offering is motivated by the expertise of the instructor and students' interests. Expects students to complete a major research, design or development project. Descriptions and prerequisites are published prior to the registration period for the course. Past topics covered included: networking, human factors, computational linguistics, advanced architecture, software engineering, logic programming, program validation, object-oriented programming and parallel algorithms. *3 Cr.*

**CSC 599 Independent Study in Computer Science (A).**

*Prerequisite:* Instructor's permission. Arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. By Arrangement.*

**CSC 601 Concepts of Programming Languages (A).**

*Prerequisites:* CSC 401, CSC 406 and MTH 481. Presents an advanced mathematical treatment of the underlying principles of programming languages and

comparison of the issues as they relate to the main language paradigms: procedural, object oriented, declarative, functional and concurrent. Covers: lexical vs. syntactic vs. semantic structures of languages; objects and classes, inheritance, dynamic binding, and implementation issues; Lambda calculus and recursive functions; logic resolution and unification; and parallel processing, co-routines and message passing. *3 Cr.*

**CSC 611 Advanced Computer Architecture (A).** *Prerequisites: CSC 411, MTH 346 and MTH 481.* As an advanced course in architecture of high-performance computer systems, emphasizes quantitative analysis. Includes: measuring performance, cost trends, CISC versus RISC, pipelined processors,

branch penalties and prediction, memory hierarchy, cache organization, virtual memory, parallel processors, SIMD/MIMD systems, interconnection networks and distributed computing. *3 Cr.*

**CSC 683 Automata Theory and Formal Languages (A).** *Prerequisite: MTH 481.* Provides an advanced treatment of the mathematical foundations of computer science, including the theories of automata, formal languages, computability and computational complexity. Includes some of the fundamental material regarding finite automata and context-free grammars as part of regularly accredited undergraduate programs, covering the material more quickly in this course. *3 Cr.*

## DEPARTMENT OF CRIMINAL JUSTICE

(585) 395-2665, (585) 395-2366 fax

Web site: [www.brockport.edu/crj](http://www.brockport.edu/crj)

*Chairperson and Associate Professor:* Kornil Kumar, PhD, Temple University; *Provost and Professor:* Timothy J. Flanagan, PhD, SUNY Albany; *Associate Professor:* Richard C. Lumb, PhD, Florida State University; *Assistant Professors:* Kimberley A. Cattat, PhD, SUNY Buffalo; Michael Cretacci, PhD, SUNY Albany; James Ross, JD, SUNY Buffalo; Yumin Wang, PhD, SUNY Albany; *Visiting Assistant Professor:* Bivette M. Stodghill, MA, SUNY Albany.

While the Department of Criminal Justice does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through advisement.

### CRIMINAL JUSTICE COURSES

**CRJ 510 Justice Dilemmas (A).** *Cross-listed as CRJ 593.* Reviews difficult and persistent problems in the American criminal justice system, including constitutional dilemmas of police, the use of excessive force; the relationship between race, poverty and crime; the death penalty and other punishments; and the role of the state as it relates to individual freedoms. *3 Cr.*

**CRJ 531 Crime Prevention and Control (A).** Explores crime problems and the role of the criminal justice system in crime prevention, its funding, planning and evaluation. *3 Cr.*

**CRJ 534 Security Administration (B).** Provides a comprehensive examination of the nature and problems of private and public security administration. Focuses on the issues of administration and the solutions, especially security technology necessary for successful management. *3 Cr.*

**CRJ 536 Computer Security (B).** Examines the nature, problems, and programs to protect organizational information, especially electronically processed data and computer equipment. *3 Cr.*

**CRJ 538 Security Law (B).** Provides a comprehensive understanding of fundamental issues in the "legal-intensive" field of security administration. *3 Cr.*

**CRJ 551 International Criminal Justice Systems (A).** Compares and contrasts the criminal justice system of the United States with the systems of other countries. *3 Cr.*

**CRJ 565 Terrorism and the Criminal Justice System (A).** Examines current terrorism, its origins and ideological bases, with particular attention to its relation to political institutions and the criminal justice response. *3 Cr.*

**CRJ 567 Murder and its Control (A).** *Cross-listed as CRJ 593.* Analyzes the forms, causes and context of homicide in the United States. Additionally, looks at criminal and non-criminal types of homicide in other cultures. Examines various behavioral adaptations to avoid becoming a victim of homicide, the social and economic consequences of homicide, societal mechanisms of preventing murder, and assessment of the risk of committing a criminal homicide in the United States and selected countries. *3 Cr.*

**CRJ 571 Research Methods in Criminal Justice (A).** Familiarizes criminal justice majors with the development of data-gathering techniques, including scaling, questionnaire construction, sampling procedures, interviewing, secondary data analysis, and techniques of data processing using micro- and minicomputers. Also examines linear casual models as a tool in theory and research, research designs, central tendency, variation, and statistics for nominal and ordinal measures. *3 Cr.*

**CRJ 577 Family Violence (A).** Focuses on the dynamics of family violence and the legal and social system response to the phenomenon. Explores and analyzes in-depth the scope and theoretical explanations of the issues of the various forms of family violence, e.g. spousal abuse, marital rape, elder abuse. *3 Cr.*

**CRJ 579 Victimology (A).** *Cross-listed as WMS 479.* Develops an understanding of crime victimization, both direct and indirect. Focuses on street crime, social and political oppression, victimization of women, and victims of corporate deviance. Emphasizes theory and policy analysis. *3 Cr.*

**CRJ 581 Women and the Criminal Justice System (A).** Examines women's relationships with crime and the criminal justice system. Specifically provides a study of women and crime, victimization and occupational obstacles and opportunities. Develops student understanding of how social, political and economic conditions affect these problems. *3 Cr.*

**CRJ 583 Fair Trial/Free Press Conflicts (A).** Examines instances in which these two highly valued and protected rights in our society have come into conflict, and evaluates legal cases in which rules designed to resolve these conflicts have been offered. *3 Cr.*

**CRJ 585 Issues in Juvenile Justice (A).** Provides an in-depth analysis of 10–12 selected topics germane to the juvenile justice system. Includes topics such as child abuse and domestic violence, alternatives for the status offender, ethical issues, children's rights, right to treatment and right to refuse treatment, the politics of juvenile justice, and the court as a socio-legal institution. *3 Cr.*

**CRJ 589 Police Problems (A).** Discusses specific problems of law enforcement and policing in contemporary American society. Emphasizes the development, nature and function of law enforcement as it relates to criminal justice. Covers topical issues and problems such as ethics, corruption, deadly force and civil liabilities. *3 Cr.*

**CRJ 590 Special Topics (A).** *Cross-listed as EDI 590, HLS 590, PAD 590.* Enables students to learn the basic operations of a criminal justice agency and participate in agency activity. Involves group discussion, weekly log and final report. *3 Cr.*

**CRJ 593 Seminar in Criminal Justice (A).** Allows students to gain an understanding of a selected criminal justice issue. Utilizes research skills to prepare and present research projects, and defend findings to an audience of critical judges. May be repeated with chair's permission. *3 Cr.*

**CRJ 594 Criminology (A).** Provides a review and critical analysis of the major criminological theories including the classical school; biological school; and psychological, sociological and psychoanalytic orientations, including economic determinism. Considers various forms of criminality, as well as studies dealing with the frequency of crime in different places at different times. *3 Cr.*

**CRJ 599 Independent Study in Criminal Justice (A).** To be defined in consultation with the instructor-sponsor and in accordance with college policy prior to registration. May be repeated with chair's permission. *1-6 Cr.*

**OAP 542 SWO Interns OAP (A).** Allows social work majors to do their field placement work for credit overseas. Internships will be in four possible locations: Costa Rica, Ireland, Puerto Rico, Vietnam. *1-15 Cr.*

## DEPARTMENT OF THE EARTH SCIENCES

(585) 395-2636, (585) 395-2416 fax

Web site: [www.esc.brockport.edu](http://www.esc.brockport.edu)

E-mail: [lmulley@brockport.edu](mailto:lmulley@brockport.edu)

*Chairperson and Associate Professor:* James A. Zollweg, PhD, Cornell University; *Associate Dean of Letters and Sciences and Associate Professor:* Jose A. Maliekal, PhD, University of Hawaii; *Associate Professors:* Whitney J. Autin, PhD, Louisiana State University; Judy A. Massare, PhD, The Johns Hopkins University; Mark R. Noll, PhD, University of Delaware; Robert Weinbeck, PhD, Iowa State University; *Assistant Professors:* Paul L. Richards, PhD, The Pennsylvania State University; Scott M. Rochette, PhD, St. Louis University; *Instructor:* Steve Weinbeck, MS, Texas Tech University.

While the Department of the Earth Sciences does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through advisement.

### EARTH SCIENCES COURSES

**ESC 512 Hydrology with Lab (A).** *Prerequisite:* MTH 201. Explores the water cycle, including precipitation, runoff, streams and lakes, groundwater, snow and other hydrologic topics. Covers water storage and processes, analytical skills dealing with hydrologic events, and the utilization and conservation of water resources in terms of its distribution, quality and flow. 4 Cr. Odd Fall.

**ESC 515 Physical Meteorology (A).** *Prerequisites:* ESC 311, ESC 350, ESC 391 and PHS 201 or instructor's permission. Covers atmospheric thermodynamics; physical processes of condensation; electrical phenomena in the atmosphere; radiative transfer. 3 Cr. Odd Fall.

**ESC 516 Thermodynamics and the Boundary Layer (A).** *Prerequisites:* ESC 311, ESC 350, ESC 391, MTH 201 and PHS 201 or instructor's permission. Covers thermodynamic processes and stability in the lower atmospheric layers; transfer of mass, energy and momentum in the boundary layer. 3 Cr. Even Fall.

**ESC 517 Dynamic Meteorology (A).** *Prerequisites:* ESC 312; ESC 350; ESC 391; PHS 201; MTH 203 and either MTH 255 or PHS 301 or instructor's permission. Covers the development of the governing equations of motion and simplifications, introduction to concepts of divergence, circulation, vorticity; mid-latitude synoptic scale motions; numerical methods and linear perturbation theory. 3 Cr. Odd Spring.

**ESC 518 Watershed Sciences (A).** *Prerequisite:* ESC 412 or instructor's permission. Explores the art and science of evaluating water, air and land resources in a watershed to provide scientific information for

management policy decisions. Covers utilization of maps and other physical resources information, sampling, data processing and analysis. 3 Cr. Odd Spring.

**ESC 520 Atmospheric Sensing Methods (A).** *Prerequisites:* ESC 211, ESC 350 and ESC 391 or instructor's permission. Theory and applications of conventional and remote sensing instruments: in situ instruments, radars, Doppler radars and satellites. Emphasizes applications to National Weather Service networks and weather forecasting. Laboratory exercises include basic electrical circuits, instrument calibration, launching and analyzing soundings, and interpreting radar and satellite imageries. 4 Cr. Even Spring.

**ESC 521 Air Pollution Meteorology (A).** *Prerequisites:* ESC 350 and ESC 391 or instructor's permission. For students, engineers and professional people training to measure air pollution levels or measure and evaluate meteorological parameters which affect the diffusion and concentration of pollutants in the atmosphere. Provides knowledge of the effects of meteorology in air pollution. Covers factors related to site selection, control programs and interpretation of surveys. Also studies diffusion using mathematical models. 3 Cr. Odd Spring.

**ESC 531 GIS Applications in Earth and Environmental Science (A).** *Prerequisite:* ESC 230. Introduces students to spatial analysis theories, techniques, and issues associated with ecological and environmental applications. Provides hands-on training in the use of spatial tools while addressing a real problem. Allows students to experience linking GIS analyses to field assessments and monitoring activities. 3 Cr. Spring.

**ESC 532 Tropical Meteorology (A).** *Prerequisites:* ESC 311, ESC 350, ESC 391, MTH 201 and PHS 201 or instructor's permission. Provides a comprehensive understanding of climatology and weather systems of the tropics. Also covers the atmosphere-ocean interaction at various time scales and discusses the possible influence of the tropical tropospheric processes on the weather and climate of the middle latitudes. 3 Cr. *Odd Fall.*

**ESC 552 Mesoscale Meteorology (A).** *Prerequisites:* ESC 312, ESC 350, ESC 391, MTH 201 and PHS 201. An introduction to mesoscale processes and precipitation systems, with an emphasis on deep convection and severe weather. Covers severe storm type, structure, and organization; radar and satellite signatures of mesoscale and convective features; and the roles of atmospheric instabilities in the growth of mesoscale phenomena. Includes diagnosis and short-term prediction of severe storms via lecture and exercises. 3 Cr. *Even Spring.*

**ESC 555 Soils Science (A).** *Prerequisites:* GEL 201, CHM 205, ESC 350 and ESC 391 or instructor's permission. Explores the formation, properties and characterization of soils, especially those of New York state; measurement of physical and chemical properties in field and classroom; and management, conservation and applications of soil survey. 3 Cr. *Even Fall.*

**ESC 557 Marine Geology—Bahamas (A).** Involves preparation in the fall semester for a 2-week January intersession field experience in coral reef biology and geology on San Salvador island in the Bahamas. Covers identification, behavior and ecology of marine organisms in five habitats associated with coral reefs. Teaches students to prepare a scientific field notebook and to design, conduct and write a paper on a personal research project. 3 Cr.

**ESC 599 Independent Study in Earth Science (A).** Defined in consultation with the instructor sponsor prior to registration. 1-3 Cr. *By Arrangement.*

**ESC 636 Water Resources Topics (A).** A distance-learning course covering the study of selected topics in water dealing with its sensing, analysis, causes, impacts and prediction. Administered by American Meteorological Society ([www.ametsoc.org/dstreme](http://www.ametsoc.org/dstreme)) 3 Cr. *Every Semester.*

**ESC 671 Selected Weather Topics (A).** A distance-learning course covering the study of selected topics in weather, dealing with its sensing, analysis, causes, impacts and prediction. Administered by American Meteorological Society ([www.ametsoc.org/dstreme](http://www.ametsoc.org/dstreme)). 3 Cr. *Fall.*

**ESC 672 Selected Oceanography Topics (A).** Allows for study of selected topics in physical oceanography, dealing with its sensing, analysis, causes, impacts and prediction. A distance-learning course administered by the American Meteorological Society ([www.ametsoc.org/dstreme](http://www.ametsoc.org/dstreme)). 3 Cr. *Fall.*

**ESC 675 Real-Time Weather Studies (A).** A distance-learning course developing principles of meteorology from analysis of electronically delivered current environmental data and learning activities. Relies on computer receipt, analysis and display of geoscience data with classroom applications. Administered by the American Meteorological Society ([www.ametsoc.org/dstreme](http://www.ametsoc.org/dstreme)). 3 Cr. *Every Semester.*

#### GEOLOGY COURSES

**GEL 508 Structural Geology (A).** *Prerequisites:* GEL 302, ESC 350 and ESC 391 or instructor's permission. Covers the principles of mechanical behavior of rocks during deformation, theories of origin of major and minor rock structures (folds, faults, rock cleavage, etc.) and their relationships to each other. Also covers plate tectonics models for some major crustal structures. Emphasizes laboratory techniques of analyzing and solving three-dimensional problems gathering structural data in the field. Requires a weekend field trip and report. 4 Cr. *Even Spring.*

**GEL 511 Stratigraphy and Sedimentology (A).** *Prerequisites:* GEL 302, ESC 350 and ESC 391 or instructor's permission. Covers the physical, chemical and biological characteristics of sedimentary materials; sedimentary environments and geologic time; and the application of stratigraphic principles to a variety of problems involving sedimentary rocks in the geologic record. Employs techniques and instruments used in stratigraphy and sedimentology. Requires a weekend field trip and report. 4 Cr. *Odd Fall.*

**GEL 515 Geomorphology (A).** *Prerequisites:* GEL 201, ESC 350 and ESC 391 or instructor's permission. Explores surface features of Earth and their origin. Emphasizes processes, both internal and external, which interact to produce land forms. Stresses analytical approach formulations of valid inferences based on accurate observations. 4 Cr. *Odd Spring.*

**GEL 556 Field Geology of the Adirondacks (A).** Presents aspects of geology of selected regions of the northeastern US from field observations. Covers techniques of gathering and recording geologic data in the field, interpretation of topographic and geologic maps, and identification/examination of rocks and structures in the field. Requires a two-week field trip with short field projects. Can be repeated for credit with instructor's permission. 3 Cr. *Summer, Irregularly.*

**GEL 557 Geochemistry (A).** *Course fee. Prerequisites: CHM 205, CHM 206 and GEL 201.* Applies basic chemical principles of thermodynamics, kinetics and equilibrium to the investigation of common geologic problems ranging from the crystallization of silicate melts to surface reactions on soil minerals. Focuses on application of good laboratory practices to wet chemical and instrumental techniques involving geologic materials. *4 Cr. Even Spring.*

**GEL 562 Groundwater (A).** *Prerequisite: GEL 201.* Studies groundwater, its occurrence, movement and use, and its place in the hydrologic cycle. Examines the origin of aquifers, use and effects of wells, and water quality and groundwater problems. Laboratory focuses on practical application of principles to solving hydrogeologic problems. *4 Cr. Odd Spring.*

**GEL 599 Independent Study in Geology (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. By Arrangement.*

## DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

(585) 395-2269

*Chairperson and Professor:* Patricia J. Siegel, PhD, Yale University; *Professors:* Joseph Siracusa, PhD, University of Illinois-Urbana; *Associate Professors:* Andrea Parada, PhD, University of Michigan; Victor J. Rojas, PhD, Indiana University, Bloomington; Donna Wilkerson, PhD, University of North Carolina at Chapel Hill; *Assistant Professor:* Esther Marion, PhD, Princeton University; Janine Santiago, PhD, SUNY Buffalo.

The Department of Foreign Languages and Literatures, in cooperation with the Department of Education and Human Development, offers an MS in Bilingual-Multicultural Education. Details on this program are found under the listings of the Department of Education and Human Development.

Courses from the Department of Foreign Languages and Literatures may be applied through the advisement process as partial requirements or as electives in degree programs such as the Master of Arts in Liberal Studies.

### FOREIGN CULTURE IN ENGLISH COURSES

**FCE 520 Multiculturalism in the United States (A).** Studies how race, social class and ethnicity have influenced cultural interrelations of different minority groups within US society. Analyzes the main theories of the subject such as assimilation, amalgamation and cultural pluralism. Points out how social acceptance, economic possibilities and political rights are related to those cultural aspects included in the aforementioned concepts. *3 Cr. Spring.*

**FCE 526 Foundations of Bilingual Education (A).** Studies basic bilingual-multicultural topics and how they are related to all multilingual-multicultural societies, whether in the US or elsewhere. Analyzes how such issues affect the conceptualization of national and international policies, political and social institutions, legal organizations, philosophical ideas, and moral and religious concerns. *3 Cr. Fall.*

**FCE 599 Independent Study on Foreign Culture (A).** Provides for an independent study conducted in English on some aspect of a foreign culture whose language is taught in the Department of Foreign Languages and Literatures. *1-6 Cr. Every Semester.*

### FRENCH COURSES

**FRN 550 Topics in French Studies (A).** Closely studies a specific topic in French/Francophone language, civilization or literature. The topic selected for analysis may be from a historical or contemporary perspective and gives the opportunity to examine a particular aspect of French/Francophone studies in great depth. Requires practice in oral and written French at the advanced level. *3 Cr.*

**FRN 551 Doing Business in French (A).** Designed to help students to communicate in a French business environment by increasing their knowledge of French geography and economics, by helping them acquire the vocabulary and syntactical structures related to business, and by making students more aware of cultural differences in the conduct of business between the US and France. Emphasizes the reinforcement of oral and written skills. *3 Cr.*

**FRN 553 French Women Writers (A).** *Cross-listed as FRN 545.* Studies the presence of eminent women in France's cultural and literary history, contributions they made, difficulties they encountered, and how they embody the French spirit as it lives today. *3 Cr.*

**FRN 554 French Literature I: Texts and Context (A).** Examines texts by major authors from the Middle Ages to the Revolution. Emphasizes close readings of the texts (including prose, poetry and theatre) with the purpose of developing critical vocabulary and writing skills. Uses French history to provide the backdrop to help students understand the social forces at play in the periods under study. *3 Cr.*

**FRN 556 Francophone Cultures in Africa (A).** Offers an array of short stories, poems, novels or plays written by authors from Africa, North America or the Caribbean. Papers and discussions focus on cultural themes and issues related to the political and literary history of the francophone world. *3 Cr.*

**FRN 557 French Thought in Social Contexts (A).** A collage of literature, philosophy and history to give students a broad perspective of the major intellectual currents in their social context. Uses readings selected from early periods to the 19<sup>th</sup> century. *3 Cr.*

**FRN 558 French Literature II: Texts and Contexts (A).** Examines texts by major authors from the Napoleonic era to the recent past. Emphasizes an in-depth reading of the texts (including prose, poetry, and theatre) with the purpose of expanding vocabulary and improving writing skills. Designed to acquaint students with the social circumstances that determined the aesthetic movements that marked the period: romanticism, realism, symbolism, surrealism and existentialism. *3 Cr.*

**FRN 599 Independent Study in French (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. Every Semester.*

**FRN 699 Independent Study in French (A).** Graduate status and appropriate background in French. Provides an in-depth study on a given topic arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. Every Semester.*

#### SPANISH COURSES

**SPN 552 Hispanic Cultures through Film (A).** Studies Spanish and Spanish-American cultures through analysis of films concerning the Spanish-speaking world. Gives special attention to the political domain and the ways in which it affects people's lives, to the evolving role of women in a changing society, and to the influence of indigenous cultures. *3 Cr.*

**SPN 553 Spanish American Women Writers (A).** Following a chronological perspective, studies the writings of some of the most important women writers of Spanish America. Uses these works to il-

lustrate the evolution of a form of writing that seeks to oppose stereotypes imposed by a male literary tradition; to represent different literary movements and reflect on a variety of national problems; and to provide the framework for the analysis of cultural images of gender and relevant theoretical concepts related to female writing. After a brief introduction of the cultural conditions that define the emergence of female writing (XVII, XVIII and XIX centuries), emphasizes the second half of the XX century and the social and political context relevant to each text. *3 Cr.*

**SPN 554 Hispanic Literature and Cultures in the US (A).** Examines a vast collection of works — plays, novels, poems, essays, and films — by the Hispanic community with particular emphasis on those by Puerto Ricans, Cubans, and Mexican-Americans. Provides students with historical, social and cultural contexts of the increasing Hispanic presence in the US and illustrates some of the most relevant concerns present in these works. Explores the formation of cultural identity and the degree to which gender, race and social class influence this process. *3 Cr.*

**SPN 555 Hispanic Popular Culture (A).** Explores the materials and the dynamics of popular culture in contemporary Hispanic societies. Analyzes forms such as telenovelas (soap operas), popular music, humor, cartoons, beliefs and oral narratives. Gives attention to differing definitions and interpretations of the roles and functions of popular culture in societies. *3 Cr.*

**SPN 556 Literature and Culture of the Caribbean (A).** Covers literary contributions made by the Spanish-speaking Caribbean (Cuba, Santo Domingo, Puerto Rico) to world literature and culturally unique aspects of the region. Gives special emphasis to African heritage and women in society. *3 Cr.*

**SPN 557 Contemporary Spanish Writers (A).** Studies 20<sup>th</sup>-century Spanish literature, e.g., essays, short stories, novels, poetry and plays. Presents the historical and literary contexts in which the selected works emerge and discusses the relationship between the writers and their cultural environment. Designed to also develop analytical perspectives in literary criticism and to strengthen reading and writing skills in Spanish. *3 Cr.*

**SPN 558 Contemporary Spanish American Writers (A).** Studies 20<sup>th</sup>-century Spanish American literature: essays, short stories, novels, poetry and plays. Presents the historical and literary contexts in which the selected works emerge and discusses the relationship between the writers and their cultural environment. Designed to also develop analytical perspectives in literary criticism and to strengthen reading and writing skills in Spanish. *3 Cr.*

**SPN 559 Mexico Today (A).** Provides an introduction to contemporary Mexico: its history and geography; political, social and economic systems; art, literature and music; people and their lifestyles. Uses media and other materials to supplement course content. *3 Cr.*

**SPN 560 Spanish Phonetics (A).** Provides a description and analysis of the sound system of modern Spanish, based on structural phonemic theory. Also provides intensive drilling on various sounds and sound-variants of Spanish designed to correct problems of language pronunciation. *3 Cr. Fall.*

**SPN 561 Advanced Spanish Grammar (A).** Covers grammatical structures of Spanish and includes a study of Spanish morphology, syntax and lexicon. Gives special attention to analysis and correction of interferences. Conducts discussions of specific structures in Spanish, followed by oral and written exercises, including translations. *3 Cr. Spring.*

**SPN 562 Spanish Language Variations in the US (A).** Studies the varieties of Spanish spoken in the U.S. by Puerto Ricans, Dominicans, Cubans, Chicanos, etc. Provides an understanding of cultural, social, anthropological, linguistic and historical factors that determine language variations. Provides practice in the varieties of Spanish spoken in the US. *3 Cr. Spring.*

**SPN 563 Linguistics and Second Language Acquisition (A).** *Prerequisite SPN 351.* Offers a contrastive analysis of the language components of English and Spanish: phonetics and phonology, morphology, syntax, lexicon and semantics. Examines sociolinguistic and psycholinguistic perspectives related to the role of language in culture, identity and learning. Explores language acquisition theories and their application to bilingualism and the teaching of English to speakers of other languages. *3 Cr. Fall.*

**SPN 564 Literature and Culture of Puerto Rico (A).** Offers a survey of major issues in Puerto Rican literature and culture from the beginning of colonization to the present, as represented in historic and literary texts. Emphasizes the question of what constitutes Puerto Rico's identity and culture: how writers, artists and historians through their literary and cultural expressions define the "Puerto Rican experience." *3 Cr.*

**SPN 599 Independent Study in Spanish (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. Every Semester.*

**SPN 699 Independent Study in Spanish (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-3 Cr. Every Semester.*

## MUSIC

(585) 395-2478

SUNY Brockport offers graduate-level courses in music that may be applied as requirements and/or electives in degree programs as determined through advisement. The College also sponsors a variety of music events as noted on the Fine Arts Events Calendar at [www.brockport.edu/~finearts/fahome.htm](http://www.brockport.edu/~finearts/fahome.htm).

### MUSIC COURSES

**MUS 513 American Music (A).** Explores musical styles and idioms of North America from colonial times to the present. Requires visual and aural analysis of structural and stylistic characteristics; and recognition of important composers and musicians. *3 Cr.*

**MUS 585 American Folk Music (A).** Provides a performance approach to the history, styles and repertoire of North American folk music. Requires a research paper. *3 Cr.*

**MUS 587 Music and the Child (A).** Covers methods and approaches in the use of music with

children and for the total growth of children. Explores various vocal and instrumental materials suitable for children in creating original songs, rhythmic games and sound stories. *3 Cr.*

**MUS 595 Special Topics in Music (A).** Covers topics in music, including special explorations and advanced projects. The exact nature of the topic and instructional methodology are defined by the instructor. *3 Cr.*

**MUS 599 Independent Study (B).** Defined in consultation with instructor prior to registration. *1-6 Cr.*

## DEPARTMENT OF PHILOSOPHY

(585) 395-2420

*Chairman and Professor:* Georges Dicker, PhD, University of Wisconsin; *University Professor:* Paul Yu, PhD, University of Michigan; *Professor:* Harold Greenstein, PhD, New York University; *Assistant Professors:* Gordon Barnes, PhD, University of Wisconsin; Catherine McKeen, PhD, Rutgers University; *Visiting Assistant Professor:* Keith McPartland, MA, Cornell University.

The Department of Philosophy offers graduate courses that may be applied as requirements and/or electives in degree programs as determined through the advisement process.

### PHILOSOPHY COURSES

**PHL 528 Philosophy of Art (A).** Critically examines competing answers to selected central questions in the philosophy of art using contemporary as well as historical writings. Includes these topics: the definition of art, the nature of artistic expression, validity in interpretation, what makes art representational and the nature of creativity. *3 Cr.*

**PHL 591 Seminar in Individual Philosophers (A).** Provides an in-depth study of the writings of one or two major philosophers, such as Descartes, Hume, Kant, Dewey, Sartre and Rawls. Content varies with appropriate subtitles provided. May be repeated as subtitle varies. *3 Cr.*

## DEPARTMENT OF POLITICAL SCIENCE AND INTERNATIONAL STUDIES

(585) 395-2584

*Chairperson and Associate Professor:* Dena B. Levy, PhD, University of Iowa; *Professor:* Stephen H. Ullman, PhD, University of Minnesota; *Associate Professors:* Sandra Ciliotta-Rubery, PhD, Georgetown University; Mark J. Chadsey, PhD, SUNY Buffalo; *Assistant Professors:* Cynthia A. Boaz, PhD, University of California-Davis; John J. Fitzpatrick, PhD, SUNY Buffalo; Gregory Murray, PhD, University of Houston; David Staveley, PhD, SUNY Buffalo.

While the Department of Political Science and International Studies does not have a graduate degree program, its graduate political science and international studies course offerings may be applied as requirements and/or electives in degree programs as determined through the advisement process.

### POLITICAL SCIENCE AND INTERNATIONAL STUDIES COURSES

**INS 570 Nationalism.** Examines post-World War II nationalism as a driving force in the international system, focusing on the post-Cold War period. Includes topics of ethnic nationalism and regional conflicts, multinational states, and multistate nations. *3 Cr.*

**INS 575 Political Geography.** Covers key aspects of geopolitics as it affects foreign policy and international politics post-World War II. Examines topics such as resources, environment and human geography as well as issues associated with the study of geography-politics relationships: gateway states, shatter belts, heartland concept and trade ties. *3 Cr.*

**INS 599 Independent Study.** Designed through consultation between student and instructor. *1-6 Cr. Every Semester.*

**PLS 502 Legal Internship (A).** Provides an experiential learning opportunity. Requires student interns to perform paraprofessional responsibilities in either a public or private law office. *6 Cr. Every Semester.*

**PLS 520 Civil Liberties, Civil Rights and the Constitution (A).** Examines public policy and constitutional rights. Focuses on controversial constitutional issues such as affirmative action, capital punishment, abortion and free press/fair trial conflict. Discusses issues in a seminar format. *3 Cr.*

**PLS 544 National Security in the Nuclear Age (A).** Covers recent changes in national security (military defense) policy perception, and planning and implementation as a result of technological advances. In particular, focuses on military defense policies, including strategies and tactics of the major powers; their principal allies and other powers of military consequence; and weapons proliferation, arms control, limitation and reduction. *3 Cr.*

**PLS 545 International Law and Organization (A).** Provides an introduction to modern public international law and to major international organizations such as the United Nations and associated bodies, as well as major regional organizations. *3 Cr.*

**PLS 548 Leadership (A).** Draws upon recent scholarly studies and biographies to examine the essence of leadership in the modern age. Studies the uses of power that distinguish leaders from mere power holders. *3 Cr.*

**PLS 566 Environmental Politics (A).** Investigates federal and New York state environmental policies, and the relationship between the two. Focuses first on federal environmental policy, then covers New York environmental policy. Includes topics selected from major environmental issues: air, water, land use, solid waste, hazardous waste, aesthetics and conservation, atomic energy, pesticides and chemical waste. Requires two field trips. *3 Cr.*

**PLS 570 Nationalism (A).** *Cross-listed as INS 570.* Examines post-World War II nationalism as a driving force in the international system, with focus on the post-Cold War period. Includes topics of ethnic nationalism and regional conflicts, multinational states and multistate nations. *3 Cr.*

**PLS 575 Geopolitics (A).** Covers key aspects of geopolitics as it affects foreign policy and international politics post-World War II. Examines topics such as resources, environment and human geography as well as issues associated with the study of geography-politics relationships: gateway states, shatter belts, heartland concept and trade ties. *3 Cr.*

**PLS 599 Independent Study in Political Science (A).** Arranged in consultation with the instructor-sponsor prior to registration. *1-6 Cr. Every Semester.*

## SCHOOL OF PROFESSIONS

### **Interdisciplinary Courses**

The School of Professions sponsors graduate courses whose interdisciplinary content is applicable to students in many programs, in the School of Professions and beyond.

**PRO 510 Grants Writing Seminar (B).** Is a basic, practical, how-to course for the beginning grants writer. Includes types of funding sources, how to identify funding sources, and how to write foundation and government proposals. Requires writing a brief sample proposal. Appropriate for all majors. For information, contact Colleen Donaldson, grants development director, (585) 395-5118 or Dean of the School of Professions, 264 Faculty Office Building, (585) 395-2510.  
*1 Cr. Spring.*

## DEPARTMENT OF SOCIOLOGY

(585) 395-2619

*Chairperson and Professor:* Joan Z. Spade, PhD, SUNY Buffalo; *Associate Professor:* Jeffrey T. Lashbrook, PhD, University of Rochester; *Assistant Professors:* Denise A. Copelton, PhD, SUNY Binghamton; Julie M. Ford, PhD, Graduate Center, City University of New York; Amy E. Guptill, PhD, Cornell University; Eric Kaldor, PhD, Rutgers University; Lynne M. Moulton, PhD, Rutgers University; Elliot B. Weininger, PhD, Graduate Center, City University of New York; *Visiting Assistant Professor (Great Britain):* John Halsey, PhD, Exeter University.

While the Department of Sociology does not currently have a graduate degree program, its graduate course offerings may be applied as requirements or electives in degree programs as determined through the advisement process.

### SOCIOLOGY COURSES

**SOC 512 Schools, Learning and Society (A).** *Prerequisite:* SOC 100 or instructor's permission. Examines education as a social institution and its relationship to other social institutions. Explores schools as organizations in terms of structure and functions; compares schools within and across cultures; looks at inequality within education; and considers the role schools play in social change. 3 Cr.

**SOC 528 Racial and Ethnic Relations (A).** *Cross-listed as AAS 528. Prerequisite:* SOC 100. Explores the dynamic qualities of race and ethnicity in terms of definition, meaning and experience. Studies the role of race and ethnicity in social relations. Examines major theoretical orientations toward racial and ethnic stratification, as well as the consequences of inequality for both majority and minority groups. 3 Cr.

**SOC 564 Gender and Social Change (A).** *Cross-listed as WMS 564.* Examines gender as a social construction, embedded in interpersonal interactions, social institutions and cultural systems, comparing

gender in the US to gender in other cultures. Explores topics such as how we learn gender, how gender serves to maintain systems of inequality for men and women and how the meanings of gender have changed over time. 3 Cr.

**SOC 565 Sociology of Aging (A).** *Cross-listed as WMS 565.* Provides information and theories about the social aspects of aging, including health, income, family relationships, role change and social policy. 3 Cr. *Spring.*

**SOC 593 Mass Media in Society (A).** Investigates and critically analyzes the impact of media on society. Explores the ways gender, ethnicity, sexuality and class are treated in the media and the forces shaping the production of mass media. 3 Cr.

**SOC 599 Independent Study in Sociology (A).** Explores various theoretical perspectives on a social phenomenon or sub-area of sociology not covered by other registered courses. Arranged in consultation with the instructor. 1-6 Cr.

## DEPARTMENT OF THEATRE

(585) 395-2478

*Chair and Associate Professor:* Francis X. Kuhn, MFA, Southern Methodist University; *Professor:* Oh-Kon Cho, PhD, Michigan State University; Richard St. George, MFA, Illinois State University; *Associate Professors:* William Hullfish, Jr., EdD, SUNY Buffalo; P. Gibson Ralph, MA, University of Michigan; *Assistant Professors:* Gail Argetsinger, MA, Bowling Green State University; Davida Bloom, PhD, University of Colorado; Ruth Childs, MFA, University of Minnesota-Minneapolis; *Professional Staff:* Gary T. Musante, Technical Director, MFA, University of Michigan; *Lecturer:* Michael Krickmire, MFA, Illinois State University.

The Department of Theatre is committed to providing its students with theatre training within a liberal arts environment. The department is focused on student learning acquired through classes and productions as its highest priority, and is dedicated to upholding the integrity of theatre as it fosters an artistic environment that nurtures developing theatre artists, scholars and technicians. Theatre education is relevant in many applications, and is useful in many different occupations.

The department is committed to sustaining a vital artistic synergy with the surrounding community and the greater society through productions and other theatrical and musical presentations by its students, faculty and guest artists.

While the Department of Theatre does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through the advisement process.

### THEATRE COURSES

**THE 500 Theatre Viewing (A).** Provides students with the tools and opportunity to critically analyze, evaluate and appreciate theatre productions. Allows students to view several professional theatre productions and participate in backstage tours and discussion with artistic staff. *3 Cr.*

**THE 510 Contemporary Women Playwrights (A).** Examines selected works by 20<sup>th</sup>-century female playwrights from America, Africa, China and England, (with units on African-American, Chicana, lesbian, and Asian-American writers) in the context of feminist theory as it applies to theatre practices. Includes explorations of the ways in which contemporary female playwrights present gender and gendered experiences as staged with multiple cultural contexts. *3 Cr.*

**THE 514 American Theatre (A).** Covers theatre as an aspect of American culture from 1668 to the present. *3 Cr.*

**THE 522 Workshop Production—Lab Theatre (B).** Examines specific acting techniques pertaining to various periods, particularly Elizabethan, Restoration and others selected by the instructor. *3 Cr.*

**THE 526 Improvisational Studio (B).** Covers the development of physical, vocal and improvisational techniques for ensemble playing; and traditional and contemporary techniques of improvisation. Requires experimentation leading to the development of original material; and research and a practicum in the application of dramatic process to a specific learning situation. *3 Cr.*

**THE 530 Children's Theatre Mini-Tour (B).** Requires students to produce and perform drama in educational settings, and/or community centers on an extended run accompanied by workshops with children. *4 Cr.*

**THE 550 Field Experience in Theatre (B).** Requires students to identify methods, techniques and procedures involved in the project studies; perform these functions and/or observations; and plan a design for implementing the project in a different situation. *1-12 Cr.*

**THE 583 Creative Drama Practicum (B).** Focuses on creative drama for children and training leaders to guide youth in informal drama. Requires students to independently guide groups of children in a given dramatic form to ideas and stories. *3 Cr.*

**THE 590 Special Topics in Academic Theatre (A).** Covers advanced directing and advanced problems in scenery, costume and lighting. Topic and instructional methodology is defined by the instructor. *3 Cr.*

**THE 599 Independent Study in Theatre (A).** Designed individually through consultation between the student and instructor to suit the student's needs and interests and the special competence of the instructor. Additional requirements may be established by the department. *1-6 Cr.*

## WOMEN'S STUDIES

(585) 395-5700

*Director:* Catherine McKeen, PhD and Graduate Certificate in Women's Studies, Rutgers University.

Graduate work in women's studies can be undertaken through the Masters of Arts in Liberal Studies (MALS) degree. Utilizing Liberal Studies seminars and graduate-level women's studies courses, students can design a Plan of Study that concentrates on their areas of interest within women's studies. Because women's studies courses are cross-listed with their home departments, students have considerable flexibility in course selection. Students may also focus attention on a particular aspect of women's studies by independent study at two levels (WMS 599 and WMS 699). Graduate courses in women's studies may also be taken, under advisement, as electives in other graduate programs. For information and assistance, please contact the director of the Liberal Studies program at (585) 395-2262 or the director of women's studies at (585) 395-5700.

### WOMEN'S STUDIES COURSES

**WMS 502 Women's Health (A).** *Cross-listed as HLS 502.* Studies women as healthy functioning human beings. Includes lectures and discussion with guest speakers to present positive information and insights on anatomical, physiological, mental, spiritual and emotional aspects of today's woman. 3 Cr.

**WMS 503 Biography and Life History (A).** *Cross-listed as ANT 503.* Studies the expression of life stories, their collection and recording, and their presentation in written format. Includes the evolution of the life history in anthropology and oral history; genres of life history; gender and life stories; the life history as an expression of the self vs. the life history as a window on culture; and the limitations of life history research. 3 Cr.

**WMS 510 Contemporary Women Playwrights (A).** *Cross-listed as THE 510.* Examines selected works by 20th-century female playwrights from America, Africa, China and England. (with units on African-American, Chicana, lesbian, and Asian-American writers) in the context of feminist theory as it applies to theatre practices. Includes explorations of the ways in which contemporary female playwrights present gender and gender experiences as staged with multiple cultural contexts. 3 Cr.

**WMS 519 Human Sexuality (A).** *Cross-listed as HLS 519.* Provides each student with the opportunity to gain an awareness of him/herself and others as sexual beings. Examines sexual knowledge, attitudes and behaviors throughout the various life stages, in order to integrate human sexuality into one's total health and well-being. 3 Cr.

**WMS 527 Women in the Novel (A).** *Cross-listed as ENL 527.* Examines in-depth select novels and, on occasion, novels from other countries, to consider

their thematic forms and functions, their literary significance, and especially what they reveal about the roles of women and attitudes to patriarchy. 3 Cr.

**WMS 538 Women and Gender in Latin American History (A).** *Cross-listed as HST 538.* Examines at an advanced level the diversity of Latin-American and Caribbean women's experiences from Iberian conquest to the 20th century. Analyzes the gender dynamics of colonial, national, dictatorial and revolutionary states, economies and cultures, as well as the importance of women's movements and feminism. Discusses Latina history in the US and Latin-American and Caribbean masculinity in historical perspective. 3 Cr.

**WMS 541 American Literature: 19<sup>th</sup>-century Women's Novel (A).** *Cross-listed as ENL 541.* Entails an intensive study of the novel as a form of women's self-representation and cultural criticism. May include novels about family life, anti-slavery and temperance, slave narratives, historical novels, and representations of urban and industrial experience. 3 Cr.

**WMS 542 Topics in Women's Literature (A).** *Cross-listed as ENL 542.* Provides advanced study of women in literature and women's literature, focusing, for example, on some aspect of female lives, such as adolescence; on one or more female authors writing in a shared tradition, genre or period; or on women writing on a common topic or from perspectives held in common. 3 Cr.

**WMS 552 Women and Health (A).** Analyzes the myths and realities of women, health and illness. Includes a review of the place of women in the health-care system as patients and health-care providers. Concentrates on women/health/illness in the 20<sup>th</sup>-

century US, but uses cross-cultural and historical materials to give an added dimension to the theories and substantive materials of this field. *3 Cr.*

**WMS 557 Women and Film (A).** *Cross-listed as ENL 557.* Focuses on films by women. Considers the following questions: Have women filmmakers depicted the world differently from “dominant” cinema? What possibilities exist for forms of “feminine” film discourse that are truly different from dominant film discourse? What has been the history of women filmmakers? How many of these women have indeed tried to speak a different “language”? *3 Cr.*

**WMS 564 Gender and Social Change (A).** *Cross-listed as SOC 564.* Examines gender as a social construction, embedded in interpersonal interactions, social institutions and cultural systems, comparing gender in the US to gender in other cultures. Explores topics such as how we learn gender, how gender serves to maintain systems of inequality for men and women, and how the meanings of gender have changed over time. *3 Cr.*

**WMS 565 Sociology of Aging (A).** *Cross-listed as SOC 565.* Provides information and theories about the social aspects of aging, including health, income, family relationships, role change and social policy. *3 Cr. Spring.*

**WMS 570 Women's Popular Culture (A).** *Cross-listed as ENL 570.* Explores women's popular culture to engender a cultural analysis. Considers such questions as how women's popular culture responds to women's psychosocial needs and how it functions within the dominant culture. Examines samples of the fiction and films that represent 20<sup>th</sup>-century American women's popular culture. *3 Cr.*

**WMS 581 Women and the Criminal Justice System (A).** Examines women's relationship with crime and the criminal justice system. Specifically provides a study of women and crime, victimization and occupational obstacles and opportunities. Develops students' understanding of how social, political and economic conditions affect these problems. *3 Cr.*

**WMS 595 Women, Gender and Class — 1920-1940 (A).** *Cross-listed as HST 595.* Examines and analyzes US women's experiences in terms of gender, class and work. Introduces theories of women's and gender history and of gender and class analysis. Entails a seminar format and expects committed student participation. *3 Cr.*

**WMS 596 Sex and Censorship (A,I).** *Cross-listed as ENL 596.* Considers the expression of sexual themes—and censorship of them—in contemporary literature, film and media. Includes topics such as the erotic in art, definitions of pornography and obscenity, evolution of censorship standards and practices, the Hollywood Code, the US Commission on Obscenity and Pornography (1970) and its critics, and recent feminist perspectives. *3 Cr.*

**WMS 599 Independent Study In Women's Studies (A).** Designed individually through consultation between the student and instructor to suit the student's needs and interests and the special competence of the instructor. Additional requirements may be established by the department. *3 Cr.*

**WMS 699 Independent Study in Women's Studies (A).** Designed individually through consultation between student and instructor to suit the student's needs and interests and the special competence of the instructor. Additional requirements may be imposed by the department. *3 Cr.*

# APPENDIX



*Alumni House*

