

Physics

Chair, Department of Physics: Associate Professor P. Das
 Professor: F. Harris
 Associate Professors: Agnew, D'Amato
 Assistant Professors: Crider, Kamela
 Laboratory Manager: Redmon

Physics is the great intellectual web that underlies our understanding of the universe. Not only is a background in physics fundamental for all scientists, but it also develops a powerful set of mental tools that are invaluable in any field. Our majors pursue research into the mysteries of deep space, the subatomic world and the fascinating physics of everyday objects. They are also successful in business, engineering and a myriad of other careers thanks to the quality of mind that they develop while studying the most profound and engaging material there is: Physics.

One of the great strengths of Elon's Physics program is the close working relationship between faculty and students. All students are encouraged to be involved in research activities. Currently, these include a study of particle physics, the microscopic properties of crystals, simulation of mechanical and dynamical systems, the history and philosophy of science, and many other projects. The department is very interdisciplinary with experience in science pedagogy, neuroscience, computational theory, engineering, astronomy, geology and environmental studies. Majors and minors can expect a diverse and interesting range of opportunities for course work and research both within the traditional realm of physics and across disciplinary boundaries.

Our major course of study begins with a three-semester sequence that ranges from mechanics through electricity to basic nuclear physics and particle theory. Building on this base, we offer courses in the advanced theory of electromagnetic phenomena, the mysterious world of quantum mechanics and a wide range of other topical courses including classical mechanics, mathematical physics, circuit design, thermodynamics, field theory, statistical mechanics, etc.

The Department of Physics offers B.A., B.S., and Physics Engineering degrees as well as a minor in physics. All students interested in majoring or minoring in physics should take PHY 113 in the fall semester of their freshman year.

If you are fascinated by the mysteries of the universe and excited by observation, problem solving and creative thought, then the Department of Physics is the place for you.

A Bachelor of Arts degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
TOTAL		40 sh

A Bachelor of Science degree in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
PHY 301	Classical Mechanics and Dynamical Systems	4 sh
PHY 311	Classical Electrodynamics	4 sh
PHY 312	Electricity, Magnetism and Field Theory	4 sh
PHY 411	Quantum Mechanics	4 sh
MTH 121	Calculus and Analytic Geometry I	4 sh
MTH 221	Calculus and Analytic Geometry II	4 sh
MTH 321	Calculus and Analytic Geometry III	4 sh
PHY 499	Research	1 sh
	Choose one course from the following	4 sh
PHY 302	Statistical Mechanics and Thermodynamics	
PHY 412	Relativity and Cosmology	
PHY 471	Special Topics in Physics	
	Competence in computer programming must be demonstrated.	
TOTAL		45 sh

A Bachelor of Science degree in Engineering Physics: See requirements listed under Engineering.

A minor in Physics requires the following courses:

PHY 113	General Physics I with Calculus	4 sh
PHY 114	General Physics II with Calculus	4 sh
PHY 213	Introduction to Modern Physics	4 sh
	Select two Physics courses at the 300-400 level	8 sh
TOTAL		20 sh

PHY 101. CONCEPTUAL PHYSICS 4 sh

This course provides an introduction to the major ideas in both classical and modern Physics. Students will be introduced to experiments of the ancient Greeks, Renaissance scholars and classical natural philosophers. The formulation of gravitational and mechanical theories, thermodynamics, the particle nature of matter and aspects of elementary electromagnetism will be included. Twentieth century perspectives including the theory of relativity, quantum mechanics and chaos will be studied. Laboratory included.

PHY 102. INTRODUCTION TO ASTRONOMY 4 sh

Astronomy examines the nature of light, astronomical instruments and our attempts to understand the origin of our solar system and its constituents: the Sun, planets, asteroids, comets and meteors. Laboratory included. Offered fall and spring.

PHY 103. INTRODUCTION TO GEOLOGY 4 sh

This geology course includes a study of the nature and origin of rocks and minerals, evolution of the landscape, plate tectonics, coastal dynamics and geologic time. Laboratory included. Offered fall and spring.

- PHY 110. ENERGY AND THE ENVIRONMENT** 4 sh
 This course provides an introduction to energy concepts and the basic modes of energy production and use, focusing on environmental problems that are a consequence of such activities. Laboratory included. Offered fall and spring.
- PHY 111, 112. GENERAL PHYSICS I AND II (each semester)** 4 sh
 Designed for students majoring in the biological and/or health-related sciences, this survey of classical and modern Physics includes mechanics, waves, heat, electricity, magnetism, optics, and atomic and nuclear Physics. Labs included. Prerequisite: MTH 100 or placement exemption. Prerequisite for PHY 112: PHY 111. PHY 111 offered fall; PHY 112 offered spring.
- PHY 113, 114. GENERAL PHYSICS I AND II WITH CALCULUS (each semester)** 4 sh
 This survey of topics in classical physics is designed for students majoring in math, physics or chemistry or planning to transfer into an engineering program. Topics include kinematics, dynamics, thermodynamics, electrostatics, electrodynamics and waves. Labs included. Prerequisite for PHY 114: PHY 113. Corequisite: MTH 121. PHY 113 offered fall; PHY 114 offered spring.
- PHY 117-118. FRESHMAN PHYSICS LAB**
 This one-year sequence of laboratory experiences accompanies either PHY 111-112 or 113-114. PHY 117 (which must be taken at the same time as PHY 111 or 113) covers mechanical systems and thermodynamics. PHY 118 (which must be taken at the same time as PHY 112 or 114) explores the world of electricity and magnetism as well as geometrical optics. PHY 117 is taught in fall; PHY 118 is taught in spring. Corequisite PHY 111-112 or 113-114.
- PHY 211. CIRCUIT ANALYSIS** 3 sh
 This course is an introduction to the theory, analysis and design of electric circuits. Studies include circuit parameters and elements: voltage, current, power, energy, resistance, capacitance and inductance. Also included is the application of Kirchhoff's laws to simple and complex circuits and the study of the steady-state and transient response of circuits to pulse, step and periodic inputs. Prerequisites: MTH 221 and PHY 114. Corequisite: EGR/PHY 212.
- PHY 212. CIRCUIT ANALYSIS LAB** 1 sh
 This course involves laboratory application of concepts and principles discussed in EGR/PHY211. Corequisite: EGR/PHY 211.
- PHY 213. INTRODUCTION TO MODERN PHYSICS** 4 sh
 A continuation of PHY 113 and PHY 114, this course provides further study of wave dynamics, special relativity, early quantum mechanics, wave mechanics and an introduction to solid state and nuclear physics. Laboratory included. Prerequisite: MTH 221. Offered fall.
- PHY 301. CLASSICAL MECHANICS AND DYNAMICAL SYSTEMS** 4 sh
 In this introduction to Lagrangian and Hamiltonian treatments of classical mechanics students explore variational principles, conservation laws, contemporary approaches to dynamical systems and topics in chaos theory. Laboratory included. Prerequisite: PHY 114. Offered spring of alternate years.
- PHY 302. STATISTICAL MECHANICS AND THERMODYNAMICS** 4 sh
 This study covers statistical methods, the concept of the ensemble and statistical averages, and explores thermodynamics using a theoretical progression from statistical analysis to thermodynamic variables. In-depth studies include conservation laws and thermodynamical variables such as entropy and free energy. Laboratory included. Prerequisite: PHY 301.

PHY 305. STELLAR ASTRONOMY 4 sh

Stellar astronomy involves study of the universe beyond the solar system, including stars, clusters, stellar evolution, variable stars, the Milky Way and other galaxies, quasars and cosmological models. Satisfies non-laboratory General Studies requirement. No credit for Physics major or minor. Prerequisite: MTH 100 or higher. Offered winter.

PHY 310. ENGINEERING THERMODYNAMICS 4 sh

Introduction to the concept of energy and the laws governing the transfers and transformations of energy. Emphasis on thermodynamic properties and First and Second Law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced. Prerequisites: MTH 321 and PHY 114.

PHY 311. CLASSICAL ELECTRODYNAMICS 4 sh

Classical electrodynamics involves the study of electrostatics (including image methods and electric fields in the presence of dielectric media), vector analysis, continuity conditions for field quantities at interfaces, and magnetism and magnetostatics. Laboratory included. Prerequisite: PHY 213. Offered fall of alternate years.

PHY 312. ELECTRICITY, MAGNETISM AND FIELD THEORY 4 sh

This course includes Maxwell's equations and continuation of electrodynamics and explores the natural connection of field theory and electrodynamics and basic mathematical tools, including tensor analysis. By experiments and numerical simulation, students investigate electromagnetic radiation and fields. Laboratory included. Prerequisite: PHY 311. Offered spring of alternate years.

PHY 411. QUANTUM MECHANICS 4 sh

Study of quantum mechanics includes basic mathematical underpinnings of quantum formalisms and treats several basic problems including Hydrogen-like atoms and lasers in depth. Laboratory included. Prerequisite: PHY 301. Offered fall of alternate years.

PHY 412. RELATIVITY AND COSMOLOGY 4 sh

This course begins by examining fundamentally electro-dynamical problems out of which special relativity was born. Students read Einstein's original paper and study the classical paradoxes in depth. Discussion of cosmological problems includes black holes, galactic red shift and early universe theory. Some aspects of the general theory of relativity are also introduced. Prerequisites: PHY 311 and 312.

PHY 471. SPECIAL TOPICS IN PHYSICS 4 sh

These contemporary topics include, but are not limited to, chaos theory and nonlinear dynamics, solid state and condensed matter physics, optics, advanced quantum mechanics and particle physics. Prerequisite: permission of the instructor.

PHY 499. RESEARCH 1 sh

This semester-long supervised research project involves experimental, numerical or theoretical investigation of a single problem, culminating in a detailed report describing the methods, results and analysis performed including a "publication style" abstract of the research. Senior majors only. Offered fall, winter and spring.

Political Science

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh
 Professors: Taylor, Zarzar
 Associate Professors: R. Anderson, Roselle
 Assistant Professors: Morgan, Spray, Vercellotti
 Adjunct Instructors: Ciriano, Colbert, Craig, Lewis, Sink, Vellani

Political Science seeks to understand the ideas, individuals and institutions engaged in making public policies that influence the lives of people in communities ranging from local to global. Courses investigate current issues and opinions, the process by which voters or leaders make decisions, the behavior of organized groups and governmental agencies, the relationships between nations and classic questions of how societies balance freedom, social justice, order and efficiency.

Students in this discipline are encouraged to develop critical reading, writing and research skills (often using computer programs); participate in role-playing simulations of local governments, legislatures, the United Nations and international relations; work as interns at the local and state level in government agencies, election campaigns and law firms and spend a semester in Washington, D.C., working in executive and judicial agencies, the U.S. Congress, interest groups and international organizations.

The department offers majors in Political Science and Public Administration as well as minors in these fields. Students can concentrate their course work in one or more subfields: American government, international relations, comparative politics, public administration, law and political theory. These programs help prepare students to enter graduate and law school, and pursue a wide range of careers in legislative, executive and judicial agencies; business; teaching; journalism; interest group advocacy; campaign management and international public service.

A major in Political Science requires the following courses:

POL 111	American Government	4 sh
POL 461	Senior Seminar in Political Science	4 sh
SSC 285	Research Methods	4 sh
One course chosen from the following:		4 sh
POL 141	International Relations	
POL 261	Comparative Politics	
One course selected from the following:		4 sh
POL 300	Introduction to Political Thought	
POL 303	Democratic Theory	
POL 304	Theorists of Non-Violence	
Twenty-four additional hours in Political Science		24 sh
TOTAL		44 sh

It is strongly recommended that Political Science majors, in consultation with their advisors, select a subfield or topical concentration of at least 12 semester hours at the 300-level and above. Subfield and concentration courses will be chosen from among the 24 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major.

A minor in Political Science requires the following:

POL 111	American Government	4 sh
Sixteen semester hours in Political Science		16 sh
TOTAL		20 sh

- POL 111. AMERICAN GOVERNMENT** 4 sh
 American Government serves as an introduction to the national political system including the legislative, executive and judicial branches; the Constitution; political parties; interest groups; public opinion and public policy issues. Offered fall and spring.
- POL 112. NORTH CAROLINA STUDENT LEGISLATURE** 1 sh
 This is an experiential course which promotes active participation in the NCSL, debate of public issues and organizational involvement at the university and state-wide level. Offered fall and spring.
- POL 114. MODEL UNITED NATIONS** 1 sh
 Through experiential learning activities, students gain insight into the workings of the United Nations, diplomacy and international politics. Offered fall and spring.
- POL 116. LOCAL GOVERNMENT SIMULATION** 4 sh
 This course examines the structure and functioning of local governments and applies that understanding in a simulation of local government issues in which students assume the roles of city council members, planning commission members, organizational leaders, business owners, citizen groups and the media. Offered winter.
- POL 141. INTERNATIONAL RELATIONS** 4 sh
 This course gives students a basic appreciation for our world and examines political issues such as the role of power and international law in the international system and economic, social and cultural features of the world. Offered fall and spring.
- POL 222. STATE AND LOCAL GOVERNMENT AND POLITICS** 4 sh
 This study focuses on the structure and functioning of the state and local government and their roles within the American federal system. Offered spring.
- POL 224. ENVIRONMENTAL POLICY AND LAW** 4 sh
 This course focuses on the policy processes and institutional settings for environmental policy formation and governmental action. It deals with the role of the courts, Congress and federal agencies in the development, implementation and evaluation of environmental policy. Offered spring.
- POL 231. PUBLIC ADMINISTRATION** 4 sh
 This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decision making, fiscal management, personnel management and other forms of action in the public sector. (Same course as PUB 231.) Offered fall and spring.
- POL 261. COMPARATIVE POLITICS** 4 sh
 This introduction to the central concepts of comparative politics and to the major types of contemporary political systems may include Britain, Germany, Japan, Africa, China, Mexico and the post-Soviet independent states of Eurasia. Offered spring.
- POL 300. INTRODUCTION TO POLITICAL THOUGHT** 4 sh
 In a critical introduction to the great political thinkers, discussion spans from Plato to Rousseau. Offered every third semester.
- POL 303. DEMOCRATIC THEORY** 4 sh
 This course examines conceptions, models and themes of democracy around the world using a comparative approach with special emphasis on models of democracy as they developed in the U.S. Offered every third semester.

- POL 304. THEORISTS OF NON-VIOLENCE** 4 sh
 Non-violent alternatives to violence in resolving interpersonal and intergroup conflicts will be explored in light of the various Eastern and Western moral and religious traditions and the thought of such thinkers as Mahatma Gandhi, Martin Luther King, Jr., and others. Offered every third semester.
- POL 321. PUBLIC OPINION POLLING** 2 sh
 The goal of this course is for students to learn how to supervise a public opinion poll and apply survey research theory to the Elon Poll. Students participate as interviewers in several polls and learn survey design, computer programming, analysis of poll data and how to write about survey results. Offered fall.
- POL 322. NORTH CAROLINA POLITICS AND POLICY** 4 sh
 This course examines North Carolina's politics and public policy development from a broad historical perspective, analyzes how state government formulates and administers legislation and explores contemporary policy issues facing the state. Offered every other year.
- POL 323. CONSTITUTIONAL LAW** 2 sh
 Using a case study approach, this course focuses on American Constitutional structures: separation of powers, judicial review and federalism. Offered fall.
- POL 324. CIVIL LIBERTIES** 2 sh
 The focus of this course is on individual rights guaranteed by American Constitutional structures: civil rights and civil liberties. Offered spring.
- POL 325. THE PRESIDENCY** 4 sh
 A study of the contemporary presidency emphasizes the organization of the office, its relationship to other structures in American politics and its role in the policy-making process. Offered every other year.
- POL 326. THE CONGRESS** 4 sh
 Topics of study cover the policy-making process in Congress, focusing on party leadership, the committee system and the relationship between the Congress and the presidency, interest groups and the executive branch. Discussion also includes congressional reform proposals. Offered every other year.
- POL 328. PUBLIC POLICY** 4 sh
 This study of public policy making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decision makers. (Same course as PUB 328.) Offered fall.
- POL 329. POLITICAL BEHAVIOR** 4 sh
 This course focuses on political life from a micro perspective by examining how political attitudes and behaviors are learned and how they affect our political choices, especially in regard to political socialization and electoral behavior. Offered every other year.
- POL 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING** 4 sh
 Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. Offered every other year.
- POL 335. ETHICS IN THE PUBLIC SECTOR** 4 sh
 This course explores the ethical dimensions of public service, with particular attention to the role, duties and responsibilities of public officials. (Same course as PUB 334) Offered every other year.

POL 335. ETHICS IN THE PUBLIC

The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. (Same course as PUB 335) Offered fall.

POL 342. U.S. FOREIGN POLICY

4 sh

This course covers the foreign relations, foreign policy and international politics of the United States since 1939. Offered every other year.

POL 343. INTERNATIONAL LAW AND ORGANIZATIONS

4 sh

This course focuses on the role of international law and organizations in determining patterns of international behavior with special attention to the United Nations. Offered every other year.

POL 344. INTERNATIONAL ENVIRONMENTAL POLICY

4 sh

This course addresses environmental issues that cross national boundaries, such as global warming, natural resource scarcity, waste disposal and issues of international trade and the environment. It is useful for students of International Studies, Environmental Studies as well as Political Science.

POL 345. INTERNATIONAL TERRORISM

4 sh

This course examines the genesis, typology and impact of international terrorism on nation states and the international community. It also explores the variety of approaches used, especially by the United States, to deal with international terrorism. Offered every other year.

POL 359. POLITICAL COMMUNICATIONS

4 sh

This examination of political communications processes uses a comparative perspective and emphasizes the role of media in the U.S., Europe, Eurasia and developing countries.

200 **POL 363. POLITICS OF ASIA**

4 sh

This exploration of the politics of Asia after World War II analyzes political and economic processes in the cases of Japan, China and newly industrializing countries.

POL 364. POLITICS OF EUROPE

4 sh

This course explores the politics of eastern and western Europe since World War I.

POL 365. POLITICS OF EURASIA

4 sh

This course analyzes the rise and fall of the Soviet Union as a political entity and studies the newly independent countries of the former Soviet Union in some depth.

POL 366. MIDDLE EAST POLITICS

4 sh

This course studies Middle Eastern political dynamics and institutions, contemporary issues and problems of selected Middle Eastern and North African countries.

POL 367. POLITICS OF AFRICA

4 sh

This course focuses on nation building and major factors influencing contemporary politics in selected African states. It emphasizes the legacy of colonialism/independence struggles, traditional loyalties, the political/social/economic origins of conflict/coalitions/coups, political participation, institutionalization/control, the destabilizing influences of class/ethnic/elitist/racial differences and African states in the world order.

POL 368. LATIN AMERICAN POLITICS

4 sh

Central America and Mexico receive emphasis in this study of the political dynamics, governmental structures and contemporary issues of selected countries of Latin America.

POL 375. POLITICAL SCIENCE IN LONDON

4 sh

- POL 376. WASHINGTON CENTER SEMINAR** 1-4 sh
 Students learn first hand from speakers, on-site visits and other experiential opportunities in Washington, D.C., and other locations through the Washington Center. Course requirements include readings, writing assignments and collaborative work dealing with a wide variety of topics. Prerequisite: Permission of department. Offered every semester.
- POL 382. CAMPAIGN MANAGEMENT** 4 sh
 This course provides a practical study of how to run an election campaign, with attention to setting up, staffing and financing a campaign office, organizing events, media relations, campaign technology, polling, advertising and getting out the vote. Students spend significant time as an intern for a candidate of their choice and reflect on their experience. Offered fall of even-numbered years.
- POL 428. COMPARATIVE PUBLIC POLICY** 4 sh
 Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies and how those differences impact the policy process and policy content. (Same course as PUB 428) Offered every other year.
- POL 431. POLICY ANALYSIS AND PROGRAM EVALUATION** 4 sh
 Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 111 or permission of instructor. (Same course as PUB 431.) Offered spring.
- POL 433. TOPICS IN URBAN POLITICS** 4 sh
 Advanced study in areas of the Urban Politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor. (Same course as PUB 433.)
- POL 461. SENIOR SEMINAR IN POLITICAL SCIENCE** 4 sh
 The capstone experience for senior Political Science majors involves close review of the discipline's conceptual approaches to the study of political issues, discussion and development of research strategies. Students must also present a work of original scholarship. Prerequisite: senior majors only. Offered fall and spring.
- POL 481. INTERNSHIP IN POLITICAL SCIENCE** 1-16 sh
 Work experience in a partisan, nonprofit business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.
- POL 485. WASHINGTON INTERNSHIP IN POLITICAL SCIENCE** 1-12 sh
 Work experience in a partisan, nonprofit business, governmental or legal setting in the Washington, D.C., area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.
- POL 491. INDEPENDENT STUDY** 1-4 sh
- POL 492. TOPICS IN POLITICAL SCIENCE** 4 sh
 This advanced course explores significant contemporary issues or developments within the discipline. Prerequisite: POL 111 or permission of the instructor.
- POL 499. RESEARCH** 1-4 sh
 This course is an opportunity for students to undertake an empirical or theoretical study of a topic in Political Science in collaboration with a departmental faculty mem-

ber. Research projects may include a review of research literature, developing a research design, data collection and analysis and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for 1-4 hours of credit per semester and may register for more than one semester of research for a total of 8 hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

Professional Writing Studies

Coordinator: Assistant Professor Peeples, Director of Writing Across the Curriculum*

Professional writing is an interdisciplinary minor designed for students across the disciplines who would like to add to their majors focused study and practice in applied writing. This minor is intended not only to strengthen the writing instruction offered to students across the disciplines, but also to responsibly prepare students for the steadily increasing numbers of specialized professional, technical and medical writing positions in government agencies, industry and nonprofit organizations.

The minor is broad and flexible enough that students can formulate course sequences appealing to their specific interests. It is also structured tightly enough to effectively guide students' curricular decisions.

A required theory course prepares students to see writing broadly as a complex, highly situated form of social action and production. Two required practice courses engage students in hands-on projects where they learn to apply advanced practical writing skills within specific contexts. A variety of internship experiences are possible in which students have a chance to practice what they have learned in actual disciplinary or professional contexts. Students complete their minor by taking a capstone course where they are involved in another internship experience and where they also prepare individual professional writing portfolios to illustrate their specialized writing knowledge.

The minor requires a minimum of 20 semester hours. Courses must be chosen from at least two disciplines.

A minor in Professional Writing Studies requires the following:

Four semester hours chosen from one of the following theory courses: 4 sh

ENG 204 Survey of Professional Writing and Rhetoric

ENG 304 Topics in Professional Writing and Rhetoric

Eight semester hours chosen from two of the following practice/applied courses: 8 sh

ART 263 Digital Art I

ART 363 Digital Art II

BUS 202 Business Communications

ENG 211 Writing for the Professions

ENG 311 Document Research, Management and Production

ENG 318 Technical and Scientific Writing

ENG 319 Writing Center Workshop

HUS 412 Professional Communication

JCM 327 Corporate Publishing

JCM 328 Magazine Editing and Production

JCM 333 Principles of Public Relations

JCM 387	Web Publishing and Design	
	Four semester hours from one disciplinary internship course. (The course must be carefully designed as a professional writing internship and approved by the Interdisciplinary Writing Committee. Most ENG 381 or 481 courses can be designed for this purpose and approved.)	4 sh
ENG 495	Professional Writing capstone course	4 sh
TOTAL		20 sh

*Note: The minor is jointly administered by the English department and the Interdisciplinary Writing Committee, chaired by the director of Writing Across the Curriculum, who also serves as the minor's coordinator. All questions should be referred to the coordinator.

Psychology

Chair, Department of Psychology: Associate Professor Green
 Professor: Granowsky
 Associate Professors: Fromson, King, Levesque, McClearn, Pickens, Vandermaas-Peeler
 Assistant Professors: DeNeui, Smith

The psychology major at Elon University presents the principles, methods and research findings of the field of psychology. Students in the major learn and practice sound research methods and are given many opportunities for exploring the breadth of the content areas in psychology. In each psychology course, students are involved in writing and speaking in the discipline. Interested students may engage in a variety of applied internship experiences and/or collaborative research with departmental faculty.

Students with a bachelor's degree in psychology have many career options. Some students enter fields such as law enforcement, court counseling, daycare, group home counseling, YMCA program work, personnel and entry level positions in mental health. Others opt to go on to graduate school in a variety of programs including clinical; counseling or school psychology; social work; special education; law and many others. Psychology majors receive both a liberal arts education and practice in the skills of research, professional writing and speaking, and are therefore prepared for a variety of careers.

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A major in Psychology requires the following courses:

PSY 111	General Psychology	4 sh
PSY 201	Research Methods I	4 sh
PSY 202	Research Methods II	4 sh
PSY 461	Senior Seminar	4 sh
Two courses chosen from the following:		8 sh
PSY 212	Learning and Memory	
PSY 221	Biological Bases of Behavior	
PSY 233	Lifespan Human Development	
Two courses chosen from the following:		8 sh
PSY 312	Cognitive Psychology	
PSY 323	Social Psychology	
PSY 343	Psychology of Personality and Individual Differences	
Twelve additional semester hours in Psychology		12 sh
TOTAL		44 sh

A minor in Psychology requires the following courses:

PSY 111	General Psychology	4 sh
	Sixteen semester hours of Psychology electives	16 sh
TOTAL		20 sh

PSY 111. GENERAL PSYCHOLOGY 4 sh

General psychology surveys central topics in the field, including research methodology, learning and memory processes, social psychology, psychological disorders and personality. Offered fall and spring.

PSY 201. RESEARCH METHODS I 4 sh

Students begin learning how to conduct and report psychological research. Study focuses on how to frame psychological questions, how to answer them using research designs and complementary data analysis techniques and the basics of writing research reports. Prerequisites: PSY 111, psychology major status or permission of department chair. Offered fall and spring.

PSY 202. RESEARCH METHODS II 4 sh

Exploration continues with more complex research designs and data analysis techniques, giving in-depth attention to the written and oral presentation of research findings. Prerequisites: PSY 111, 201. Offered fall and spring.

PSY 212. LEARNING AND MEMORY 4 sh

This course addresses models of knowledge acquisition (including classical and operant conditioning and cognitive processes), encoding and storage of information, memory retrieval and forgetting. Prerequisite: PSY 111. Offered fall or spring.

PSY 215. THE PSYCHOLOGY OF PERSONAL RELATIONSHIPS 4 sh

The purpose of this course is to investigate personal relationships from various viewpoints of psychology (e.g., social, cognitive and biopsychological). Interactions with family members and friends will be discussed, but the emphasis will be placed on the initiation, maintenance and termination of romantic relationships.

PSY 221. BIOLOGICAL BASES OF BEHAVIOR 4 sh

This course explores the biological foundations of such psychological processes as learning and memory, movement, sleep and emotions, as well as such abnormal conditions as schizophrenia and depression. Prerequisite: PSY 111. Offered fall or spring.

PSY 233. LIFESPAN HUMAN DEVELOPMENT 4 sh

An exploration of human development across the entire lifespan includes consideration of cognitive, social and emotional development as a complex interaction between individuals and their social and cultural environments. Prerequisite: PSY 111. Offered fall or spring.

PSY 312. COGNITIVE PSYCHOLOGY 4 sh

Cognitive psychology studies how humans represent and process information about the environment in their role as thinkers, planners, language users and problem solvers. Prerequisites: PSY 111 and one additional psychology course. Offered fall or spring.

PSY 315. PSYCHOLOGY OF SEX AND GENDER 4 sh

This course focuses on the psychology of sex and gender from a feminist perspective and is organized around four themes: gender as a social construction, the importance of language and the power to name, class and cultural diversity and knowledge as a source of social change.

- PSY 321. EDUCATIONAL PSYCHOLOGY** 4 sh
Students gain an overview of research and theory in educational psychology and explore their applications in teaching and learning. Prerequisite: PSY 111 or EDU 211. Offered fall and spring.
- PSY 323. SOCIAL PSYCHOLOGY** 4 sh
Topics in social psychology explore how people think about, influence and relate to one another including affiliation, aggression, altruism, attitude formation and change, attribution, compliance, conformity and persuasion. Prerequisites: PSY 111 and one additional psychology course. Offered fall or spring.
- PSY 325. THE PSYCHOLOGY OF AMERICAN PROTEST MUSIC** 4 sh
This course is a study of the psychological impact of music used to promote social change. By necessity, this study utilizes a variety of perspectives, in addition to psychological ones, including historical, socio-political and musicological. Movements covered include early labor organizations, civil rights and antiwar. Prerequisite: PSY 111.
- PSY 327. THE PSYCHOLOGY OF NONVIOLENCE** 4 sh
This course is a study of the variety of means for resolving conflict, with a focus on nonviolent alternatives. Our emphasis is on the psychological impact of conflict and the means of its resolution. Topics include the impact of fear in conflict situations, psychological obstacles to resolution, Gandhian philosophy and the education of children in conflict resolution. Prerequisite: PSY 111 or permission of instructor.
- PSY 331. PSYCHOLOGICAL TESTING** 4 sh
This course addresses issues connected with the measuring of psychological constructs such as intelligence, personality and vocational interest. Among these are the variety of techniques for assessing people's characteristics, attitudes and performance in reliable and valid ways and how this information gets used in making decisions about people's lives. In addition to basic assessment principles, first-hand experience with several psychological tests will be provided. Prerequisites: PSY 111, and one of the following: PSY 201, ECO 202, MTH 112, MTH 210, SSC 285.
- PSY 332. PSYCHOLOGY OF EXCEPTIONALITY** 4 sh
Students learn the measures and procedures used to evaluate exceptional children and techniques for educational intervention and remediation as they study the origins, symptoms and characteristics of exceptional children. Study covers those children who are emotionally, physically or mentally disabled, as well as those who are gifted and talented. Prerequisite: PSY 111.
- PSY 333. ABNORMAL BEHAVIOR** 4 sh
In this overview of major psychological disturbances (anxiety, affective personality, sexual and schizophrenic disorders), students examine the role of different theories, diagnostic tests and procedures in understanding illness and learn the basics of therapeutic interventions. Prerequisite: PSY 111.
- PSY 343. PSYCHOLOGY OF PERSONALITY AND INDIVIDUAL DIFFERENCES** 4 sh
This course covers major modern perspectives in personality psychology including dispositional, biological, psychodynamic, self and social-cognitive theories. Students are also introduced to issues and techniques of personality testing and assessment. Prerequisites: PSY 111 and one additional psychology course. Offered fall or spring.
- PSY 355. HUMAN PERCEPTION** 4 sh
Study in human perception includes research and theory on the structural and functional characteristics of various perceptual systems, on perceptual phenomena such as depth and color perception and on other related topics. Prerequisite: PSY 111.

PSY 356. HEALTH PSYCHOLOGY

4 sh

This course focuses upon the role of psychology in a variety of medical issues: health-enhancing and health-compromising behaviors, stress and illness, patient-practitioner relationships, pain and other chronic conditions. The growing field of health psychology is explored as both an area of research and a clinical profession. Prerequisite: PSY 111.

PSY 357. CRIMINAL BEHAVIOR

4 sh

This course focuses primarily on the causes of crime, the criminal mind, and the resulting social and personal costs of crime. Also addressed are various aspects of the criminal justice system, including the relevance of psychology to courtroom proceedings. Although many types of crime are explored, emphasis is placed on violent crime.

PSY 361. ANIMAL BEHAVIOR

4 sh

An investigation of animal behavior takes into account physiology, development, evolution and adaptation. Studies emphasize specialized structures and abilities which may or may not be present in humans and which confer selective advantages upon their possessors. Prerequisite: PSY 111.

PSY 363. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

4 sh

Psychological applications in the workplace are the focus of this course. Topics include personnel selection, leadership and motivation, job satisfaction and work performance. Prerequisite: PSY 111.

PSY 366. PSYCHOLOGY IN CULTURAL CONTEXT

4 sh

Issues in the related fields of cultural and cross-cultural psychology are considered in depth as students investigate basic psychological processes (e.g., motivation, cognition and emotion) in the context of how cultural world views and implicit value assumptions influence the development and functioning of human behavior and social interaction. Prerequisite: PSY 111.

PSY 371. SPECIAL TOPICS IN PSYCHOLOGY

4 sh

PSY 461. SENIOR SEMINAR

4 sh

Each seminar focuses on a particular topic (motivation, aggression, expert performance, social cognition, etc.) and students become familiar with its theoretical perspectives. Working as a research team under faculty direction, students devise, implement and report an original empirical investigation of a question related to the selected area of concern. Prerequisites: PSY 202 and senior status in the major. Offered fall and spring.

PSY 481. INTERNSHIP IN PSYCHOLOGY

1-4 sh

Upper-level majors apply psychological theories and techniques to actual experiences in the field. Maximum 4 semester hours toward major. Prerequisite: majors only with faculty approval.

PSY 491. INDEPENDENT STUDY

1-4 sh

Prerequisites: junior/senior status and permission of the instructor.

PSY 499. RESEARCH

1-4 sh

In collaboration with a Psychology faculty member, students undertake an empirical or theoretical study of a topic in psychology. Research projects may include a review of the relevant research literature, data collection and analysis, and a presentation or report when the study is completed. Prerequisites: PSY 111, 201 and permission of instructor. A completed research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Offered fall, winter and spring.

Public Administration

Chair, Department of Political Science and Public Administration: Professor C. Brumbaugh
 Professors: Taylor, Zarzar
 Associate Professors: Anderson, Roselle
 Assistant Professors: Morgan, Spray
 Adjunct Instructors: Colbert, Lewis, Vellani

The Public Administration major prepares students interested in pursuing graduate education and careers in governmental or nonprofit service agencies. Courses in the major include the study of the management functions in public agencies, governmental structures and processes, techniques used in the evaluation process, and a variety of public policies. Field experiences including internships and course-linked service learning are emphasized within the major. Students develop technical competencies and theoretical understandings from courses relevant to public administration and from other disciplines as well.

As a major within the Department of Political Science, the Public Administration curriculum emphasizes the development of the student's understanding of the ideas, individuals and institutions engaged in making public policies and administering public organizations, and the influence these activities have in the lives of people in the community and the nation. Courses investigate current issues and opinions, the process by which groups and governmental agencies formulate and implement policy and the classic questions of how societies balance freedom, social justice, order and efficiency. The major is particularly concerned with how the Public Administration practitioner balances the twin priorities of political responsiveness and politically neutral professional competence. The department offers majors in Political Science and Public Administration as well as minors in each field.

A major in Public Administration requires the following courses:

PUB 231	Public Administration	4 sh
PUB 328	Public Policy	4 sh
PUB 335	Ethics in the Public Sector	4 sh
PUB 431	Policy Analysis and Program Evaluation	4 sh
PUB 461	Seminar in Public Administration	4 sh
POL 111	American Government	4 sh
POL 222	State and Local Government and Politics	4 sh
SSC 285	Research Methods	4 sh
Twelve hours selected from the following courses:		12 sh
ACC 201	Principles of Financial Accounting	
BUS 303	Introduction to Managing	
ECO 201	Principles of Economics	
POL 325	The Presidency	
POL 326	The Congress	
POL 382	Campaign Management	
PUB 334	GIS Applications for Administration and Planning	
PUB 428	Comparative Public Policy	
PUB 433	Urban Politics	
Any other Public Administration course		4 sh

TOTAL **48 sh**

It is strongly recommended that Public Administration majors, in consultation with their advisors, select a topical concentration of at least 12 semester hours at the 300-level and above. Concentration courses will be chosen from among the 16 elective hours. With the approval of the student's advisor, up to four hours from outside the Political Science and Public Administration department may be applied toward the concentration. No more than eight internship hours may be applied to the major. Students considering graduate school in Public Administration should take additional courses in Accounting, Economics, Business Administration and Statistics.

A minor in Public Administration requires the following courses:

POL 111	American Government	4 sh
PUB 231	Public Administration	4 sh
Twelve semester hours in Public Administration courses:		12 sh
TOTAL		20 sh

PUB 231. PUBLIC ADMINISTRATION 4 sh

This course introduces the student to the complexities of administering government activities and emphasizes the basic principles of organizations, decisionmaking, fiscal management, personnel management and other forms of action in the public sector. Offered fall and spring.

PUB 328. PUBLIC POLICY 4 sh

This study of public policy making emphasizes policy content and focuses on the stages and options in the process, especially the complex relationships between the branches and levels of government within the structure of federalism. Students trace the development of selected public policy positions and focus on options available to contemporary decisionmakers. Offered fall.

PUB 334. GIS APPLICATIONS FOR ADMINISTRATION AND PLANNING 4 sh

Geographic Information Systems (GIS) is an indispensable tool in public policy research, analysis and implementation. Students will develop expertise in the use of GIS software through the use of case studies, specific research projects and practical applications of this new technology in both the public and nonprofit sectors. Offered every other year.

PUB 335. ETHICS IN THE PUBLIC SECTOR 4 sh

This course explores the ethical dimensions of public service, with particular attention to the role, duties and responsibilities of public officials. The course seeks to develop awareness of the responsibilities associated with discretionary power; to develop an understanding of the ethical standards, values and virtues associated with civil service; and to build skills in using moral imagination and ethical reasoning to assess and deal effectively with ethical dilemmas that arise in public service. Offered fall.

PUB 428. COMPARATIVE PUBLIC POLICY 4 sh

Focusing primarily on various countries in Europe and Eurasia, with comparisons to the United States, this course examines the differences in the formation and implementation of a variety of public policies. It also explores differences in political culture, economic structure, political institutions and national approaches to domestic social policies, and how those differences impact the policy process and policy content. Offered every other year.

PUB 431. POLICY ANALYSIS AND PROGRAM EVALUATION 4 sh

Two aspects of the public policy process are covered in this course. Policy analysis focuses on the formulation stage of the policy process and attempts to isolate both the intended and many unintended effects. Program evaluation determines the degree to which a program is meeting its objectives and considers problems and side effects. Prerequisite: POL 111 or permission of instructor. Offered spring.

- PUB 433. URBAN POLITICS** 4 sh
Advanced study in areas of the urban politics field centers on varying topics to be decided by the instructor. Selections might include urban management, urban public policy, urban problems, etc. Prerequisite: POL 222 or permission of instructor.
- PUB 461. SEMINAR IN PUBLIC ADMINISTRATION** 4 sh
The capstone experience for senior Public Administration majors involves review of the discipline's conceptual approaches and discussion and development of research strategies. Students must present a work of original scholarship. Prerequisite: senior majors only. Offered fall and spring.
- PUB 481. INTERNSHIP IN PUBLIC ADMINISTRATION** 1-16 sh
Work experience in a nonprofit, business, governmental or legal setting requires students to establish experiential goals and to reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.
- PUB 485. WASHINGTON INTERNSHIP IN PUBLIC ADMINISTRATION** 1-12 sh
Work experience in a partisan, nonprofit business, governmental or legal setting in the Washington, D.C. area, requires students to establish experiential goals and reflect on the learning experience. Offered on an individual basis when suitable opportunities can be arranged.
- PUB 491. INDEPENDENT STUDY** 1-4 sh
- PUB 499. RESEARCH** 1-4 sh
This course is an opportunity for students to undertake an empirical or theoretical study of a topic in political science in collaboration with a departmental faculty member. Research projects may include a review of research literature, developing a research design, data collection and analysis, and a presentation or report when the study is completed. Prerequisite: permission of instructor. A research proposal form completed by the student in conjunction with the faculty member is required for registration. Students may register for one to four hours of credit per semester and may register for more than one semester of research for a total of eight hours of research credit toward the major. Students must have a minimum 2.5 GPA and have completed 28 semester hours of undergraduate work.

Religious Studies

Chair, Department of Religious Studies: Professor Pace
Professors: Pugh, Wilson
Associate Professor: Chakrabarti
Assistant Professors: McBride, Peters

Religious Studies courses and the Religious Studies major and minor are designed to help students learn about one of the most basic and universal aspects of human existence. Knowing about religion helps us to better understand ourselves and the beliefs of others.

The series of courses required for the major gives students a taste of three major subdivisions within the discipline of religion. The members of the Religious Studies faculty seek to foster in students a love of learning, informed values and a spirit of tolerance. In keeping with Elon's liberal arts objectives, the program and the faculty also seek to develop the students' ability to think critically and communicate effectively, both in the discipline and in other areas of life.

A major in Religious Studies requires the following courses:

REL 111	Introduction to the Old Testament	4 sh or
REL 112	Introduction to the New Testament	

RELIGIOUS STUDIES

REL 121	World Religions	4 sh
REL 134	Introduction to Religious Studies	4 sh
REL 492	Senior Seminar	2 sh
An additional six courses, five at the 300-400 level		24 sh

1 course in Biblical Studies

1 course in Eastern and Islamic Studies

1 course in Theological and Ethical Studies

3 electives

(Greek 110, 210 are recommended for all Religious Studies majors and Greek 310 may be substituted for a Religious Studies course in the Biblical Studies area.)

TOTAL		38 sh
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A minor in Religious Studies requires the following courses: Eight semester hours of Religious Studies at the 300-400 levels. Twelve semester hours of Religious Studies courses at any level. Courses must be taken from at least two major areas.

TOTAL		20 sh
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REL 111. INTRODUCTION TO THE OLD TESTAMENT 4 sh

Students are introduced to the history, literature and religion of the Israelite people in the context of ancient Near Eastern culture in this course.

REL 112. INTRODUCTION TO THE NEW TESTAMENT 4 sh

This course studies the rise and development of Christianity and its literature.

REL 121. WORLD RELIGIONS 4 sh

The origin, historical development and beliefs of selected religious traditions are the focus of this course.

210 **REL 134. INTRODUCTION TO RELIGIOUS STUDIES** 4 sh

This course considers the human religious experience and its impact throughout history and in the contemporary world.

REL 181. INTERNSHIP IN RELIGIOUS STUDIES 1 sh

An optional internship may occasionally be offered in conjunction with REL 134, Introduction to Religious Studies.

REL 251. RELIGIOUS STUDIES ABROAD 4 sh

Religious study tours are offered to England, India and/or the Middle East (Israel, Egypt and Jordan). Winter Term only.

BIBLICAL STUDIES

REL 321. ARCHAEOLOGY OF THE ANCIENT NEAR EAST 4 sh

This study surveys major archaeological research as it relates to the Near East with particular emphasis on Egypt, Palestine and Mesopotamia.

REL 322. OLD TESTAMENT PROPHETS 4 sh

The background, personal characteristics, function, message and present significance of the Hebrew prophets is the focus of this course.

REL 324. JOB 4 sh

Study of the Old Testament Book of Job includes its contents, literary structure, impact on modern literature and drama and its message about senseless tragedy for today's world.

REL 325. REVELATION AND OTHER APOCALYPTIC LITERATURE 4 sh
The course examines the origins of apocalyptic thought in early Jewish and Christian history. While half of the course is a very close and detailed reading of Revelation, some Old Testament and intertestamental apocalyptic literature is also read.

REL 326. LIFE AND THOUGHT OF PAUL 4 sh
This study analyzes major motifs of Paul's theology by interpreting his New Testament writings.

REL 329. JESUS AND THE GOSPELS 4 sh
The course is a close reading and comparison of Matthew, Mark and Luke in parallel columns, along with the noncanonical Gospel of Thomas. John will be read separately toward the end of the course.

THEOLOGICAL AND ETHICAL STUDIES

REL 334. MODERN RELIGIOUS THINKERS 4 sh
Course study consists of an examination of the theologies of selected major thinkers in the Judeo-Christian tradition.

REL 336. LIFE AND THOUGHT OF THE CHRISTIAN CHURCH 4 sh
This course considers the influence of Christianity in a sociocultural and theological perspective and examines church personalities, controversies and decisions from Jewish antecedents to the present day.

REL 338. CONTEMPORARY THEOLOGY 4 sh
Beginning with background in historical theology, the class will study different theological perspectives and developments of the modern world.

REL 341. CHRISTIAN ETHICS 4 sh
Special attention is given to analyzing selected personal and social-ethical issues in a systematic and biblically based study of the types and principles of Christian ethical theory.

REL 345. A THEOLOGY OF HUMAN LIBERATION 4 sh
This study analyzes contemporary types of liberation theology — Third World liberation, Black liberation, women's liberation — through studying significant representative writings and biographies.

REL 347. WOMEN AND RELIGION 4 sh
The course considers the influence of religion on women in the home, church and society through the years, and the impact of women past and present on religion, religious thinking and religious institutions.

REL 348. ENVIRONMENTAL ETHICS 4 sh
In an exploration of the moral dimensions of the environmental crisis, students examine the roles which religious and philosophical ethics play in providing frameworks for understanding environmental issues and developing guidelines for addressing specific contemporary problems. (REL 348 is the same course as PHL 348.)

REL 355. PHILOSOPHY OF RELIGION 4 sh
(Same course as PHL 355. See PHL 355 for description.)

EASTERN AND ISLAMIC STUDIES

REL 353. BUDDHISM 4 sh
This course gives students a critical understanding of basic concepts and doctrines of Buddhism, considering the similarities and contrasts between the different major schools of Buddhism as well as Buddhism's relationship to Taoism and Confucianism.

REL 356. HINDUISM 4 sh
 This study of the history, scripture and beliefs of this major religion of India includes topics such as the doctrine of creation, karma, reincarnation and the problem of evil.

REL 357. ISLAM 4 sh
 Study of the history, scripture and beliefs of Islam gives attention to Islam as an influential force in the contemporary world.

SPECIAL COURSES

REL 365. LITERATURE AND THEOLOGY 4 sh
 (Same course as ENG 365. See ENG 365 for description.)

REL 380. RELIGION IN CONTEMPORARY BRITAIN 4 sh
 The focus of this travel course centers on a study of the beliefs and practices of various faith communities in a multicultural and plural society, specifically modern-day Britain.

REL 471. SEMINAR: SPECIAL TOPICS 1-4 sh

REL 481. INTERNSHIP IN RELIGIOUS STUDIES 1-4 sh
 This course provides opportunities for upper-level students to apply concepts and information gained in the religious studies classroom to actual experiences in local community and church agencies or as teaching assistants in freshman-level classes. Maximum four semester hours toward major. Prerequisites: junior/senior majors only, faculty approval.

REL 491. INDEPENDENT STUDY 1-4 sh
 Upper-class majors (or others by instructor consent) may complete individual study in an area of special interest with the guidance of a member of the department. Maximum six semester hours credit.

REL 492. SENIOR SEMINAR 2 sh
 In this capstone course, the student and the department evaluate performance over the student's past years of study. Required of all majors during senior year.