

General Education Requirements 2010-2011

General Education Requirements are designed to provide the student with a broad knowledge base and assist students in finding areas of interest. General Education Requirements are considered fulfilled for students who have earned an Associate's Degree from a Virginia Community College: AA, AS, AA&S degrees only.

The General Education Requirements consist of courses in **12 areas**, which are divided into **Skills** and **Ways of Knowing**, as well as an **upper division component**. All students receiving a degree from Old Dominion University must fulfill the General Education Requirements as well as department requirements for their major. Sometimes these two areas overlap; this is identified on the curriculum sheet for each major. Students should review this information with their assigned academic advisor.

Note: Freshmen should consider only 100- and 200-level courses.

Skills

WRITTEN COMMUNICATION: 6 credit-hours required

(English 110C and select one additional.)

ENGL 110C. English Composition. Lecture and discussion 3 hours; 3 credits. Prerequisite: Students must have passed the University Writing Sample Placement Test before registering for 110. This course is designed to improve students' writing skills. Emphasis is placed on developing skills of perception and observation, as well as thinking, ordering and imagining, and on practicing the principles of expository writing.

ENGL 211C. English Composition. Lecture 3 hours; 3 credits. Prerequisite: ENGL 110C. This course emphasizes critical reading, thinking, and writing. Students are introduced to principles of analysis and argumentation and taught the requisite skills that will allow them properly to paraphrase, summarize, and synthesize research in the common modes of academic writing. The course culminates in the preparation of a fully-documented research paper.

ENGL 221C. Introduction to Writing in the Social Sciences. Lecture 3 hours; 3 credits. Prerequisite: ENGL 110C. This course emphasizes critical reading, thinking, and writing as they apply to the social sciences. Students are introduced to principles of analysis and argumentation and taught the requisite skills that will allow them to properly paraphrase, summarize, and synthesize research as it applies to and is most commonly found in the social sciences. The course culminates in the preparation of a fully-documented research paper.

ENGL 231C. Introduction to Technical and Scientific Writing. Lecture 3 hours ; 3 credits. Prerequisite: ENGL 110C. This course emphasizes critical reading, thinking, and writing in technical and scientific contexts. Students are introduced to principles of research, analysis, and argumentation as they are practiced in disciplines such as computer technology, the natural and social sciences, mathematics, business, health sciences, and engineering.

MATHEMATICS: 3 credit-hours required

MATH 101M. An Introduction to Mathematics for Critical Thinking. Lecture 3 hours; 3 credits. Prerequisite: This course fulfills the math general education requirement for some majors in the College of Arts and Letters and the College of Education. It can also be used as a preparation for STAT 130M. An introduction to the ways in which modern mathematics can be used to analyze the modern world and make logical decisions. Topics include problem solving, sets, logic, consumer mathematics (loans, mortgages, annuities), and elementary statistics

MATH 102M. College Algebra. Lecture 3 hours; 3 credits. Prerequisite: This course fulfills the math general education requirement and can be used as a preparation for MATH 162M. MATH 101M is not a prerequisite for MATH 102M. Not open to students with credit for MATH 162M. A basic course in algebra which emphasizes applications and problem-solving skills. Topics include solution and graphing of equations and inequalities, the algebra of rational expressions, and systems of linear equations.

MATH 162M. Pre-calculus I. Lecture 3 hours; 3 credits. Prerequisite: qualifying score on SAT or ACT, or qualifying score on a placement test administered by the University Testing Center or a grade of C or better in MATH 102M. The first course in a two course sequence designed to provide a strong preparation for calculus. Topics include algebraic operations, equations and inequalities, graphs and functions, polynomial functions, theory of equations, system of equations and Gaussian elimination.

STAT 130M. Elementary Statistics. Lecture 3 hours; 3 credits. Prerequisite: qualifying score on a placement test administered by the University Testing Center, qualifying SAT or ACT score or a C or better in MATH 101M. Topics include: data description, elementary probability, binomial and normal distributions, interval estimation, hypothesis testing, and correlation. The role of probability in inference is emphasized.

ORAL COMMUNICATION: 3 credit-hours required

(Sometimes this requirement is met within your major.)

COMM 101R. Public Speaking. Lecture 3 hours; 3 credits. Preparation, delivery, and analysis of types of speeches with emphasis on extemporaneous speaking.

COMM 103R. Voice and Diction. Lecture 3 hours; 3 credits. An introduction to the analysis and practice of effective voice and articulation. Applications across various communication contexts, such as public communication, media, and social communication.

COMM 112R. Introduction to Interpersonal Communication. Lecture 3 hours; 3 credits. An introduction to concepts, processes, and effects of communication in personal and social relationships. Emphasis on fundamental communication skills necessary for the formation and maintenance of relationships.

INFORMATION LITERACY AND RESEARCH: 3 credit-hours required

(Sometimes this requirement is met within your major.)

IT 150G. Information Literacy for Business and Social Science. Lecture 3 hours; 3 credits. This course is designed to provide students with skills necessary to identify, to access and to utilize task appropriate information. Students will learn to evaluate information sources and to apply good research strategies. The course will address qualitative, quantitative, visual and auditory data sources along with the ethical use of data and respect for intellectual property. Special focus will be given to research topics in business and the social sciences.

CS 120G Information Literacy and Research. Lecture 3 hours; 3 credits. Students will learn to locate, manage, critically evaluate and use information for problem solving, research and decision making. Includes collaborative tools for document development and office productivity tools for presentation. Information security, laws and etiquette related to use and access of information are covered.

CS 121G Information Literacy and Research for Scientists. Lecture 3 hours; 3 credits. Students will learn to locate, manage, critically evaluate and use information for scientific problem solving and research. Includes mathematical tools for data analysis and presentation and office and collaborative tools as well. Information security, laws and etiquette related to use and access of information are covered.

HLTH 120G Information Literacy for Health Professionals. Lecture 3 hours; 3 credits. This course focuses on building basic skills for conducting health research and includes guidance on locating, utilizing, and evaluating sources. The course examines the methods and tools of health analysis and explores the mechanics of research presentation and writing to help health-related majors prepare for successful completion of upper-division requirements. The class also provides a brief introduction to ethical issues related to health research and writing.

LANGUAGE AND CULTURE: 0-6 credit-hours required

(Students will meet this requirement by successfully completing the third level of one foreign language or the second level of two foreign languages in high school. American Sign Language will be accepted in place of a foreign language. Additional credits may be required by your major.)

ARAB 111F. Beginning Arabic. Lecture 6 hours; 6 credits. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

CHIN 111F. Beginning Chinese. Lecture 6 hours; 6 credits. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

FARS 11F. Beginning Farsi. Lecture 6 hours; 6 credits. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

FR 101F-102F. Beginning French I and II. 101F or satisfactory score on the placement exam is prerequisite to 102F. Lecture 3 hours; 3 credits each semester. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center

GER 101F-102F. Beginning German I and II. 101F is prerequisite to 102F. Lecture 3 hours; 3 credits each semester. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

HEBR 11F. Beginning Hebrew I. Lecture 6 hours; 6 credits. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

ITAL 101F-102F. Beginning Italian I and II. Lecture 3 hours; 3 credits each semester. 101F is prerequisite to 102F. Oral drill and discussion of grammar principles; written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

JAPN 111F. Beginning Japanese. Lecture 3 hours; drill 3 hours; 6 credits. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center. All four skills, listening, speaking, reading and writing, are implemented from the beginning of the course.

LATN 101F-102F. Beginning Latin I and II. 101F is prerequisite to 102F. Lecture 3 hours; 3 credits each semester. Introduction to Latin literature and Roman civilization. Graded Latin readings. Study of Roman culture and its influence.

PRTG 101F-102F. Beginning Portuguese I and II. Lecture 3 hours; 3 credits each semester. 101 F is prerequisite to 102F. Introduction to the four skills (listening, speaking, reading, writing) of elementary Portuguese.

RUS 101F-102F. Beginning Russian I and II. 101F is prerequisite to 102F. Lecture 3 hours; 3 credits each semester. Oral drill and discussion of grammar principles, written exercises, and reading assignments. This course requires extensive work in the Language Learning Center.

SPAN 101F-102F. Beginning Spanish I and II. 101F is prerequisite to 102F. Lecture 3 hours; 3 credits each semester. An introduction to the Spanish language providing a foundation in listening, speaking, reading, writing and culture.

SPAN 121F. Intensive Beginning Spanish. Lecture 3 hours; 3 credits. Prerequisite: at least three years of high school Spanish and placement test. This course is designed for students who have had significant experience in the study of Spanish but do not place in the second year of the program.

Ways of Knowing (formerly called 'Perspectives')

HUMAN CREATIVITY: 3 credit-hours required

ARTH 121A. Introduction to the Visual Arts. Lecture 3 hours; 3 credits. Co-requisite: ENGL 110C. An introduction to the various media, techniques, styles, and content in the visual arts as they are manifested in the world's cultures. Relevant assignments will develop students' critical, analytical and writing skills.

ARTS 122A. Visual Communication. Lecture 1 hour; studio 5 hours; 3 credits. An introduction to essential themes and means of visual communication in the fine arts with an emphasis on studio experience in drawing, painting, collage, assemblage, and design fundamentals. Slide lectures, critical inquiry, and discussions about aesthetic issues will also be included in the course content.

COMM/THEA 270A. Film Appreciation. Lecture 2 hours; laboratory 2 hours; 3 credits. This class will focus on both contextual and close text analysis of masterworks as they have influenced film art and industry. Students in this course are expected to develop basic research, communication, viewing and critical thinking skills as they apply their knowledge to the analysis of the film experience.

DANC 185A. Dance and Its Audience. Lecture and discussion 3 hours; 3 credits. Designed to acquaint students with the components of theatrical dance performance, its historical and ethnic origins, its role as a creative expression of peoples and societies and its relationship to other art forms. Through films, videos, live performances, guest speakers, readings and discussions, students consider philosophical approaches to language, communication, aesthetics and style of choreography.

MUSC 264A. Music in History and Culture. Lecture and listening sessions 3 hours; 3 credits. A survey of major composers and their works in the historical context of different style periods, including a discussion of the central philosophical and cultural issues of each period. Students will be required to attend at least three musical events and turn in written critiques.

THEA 241A. The Theatre Experience. Lecture and discussion 3 hours ; 3 credits. An introductory audience-oriented examination of the elements of theatre and their historical development through study of plays and performances; emphasis will be directed to actually experiencing live theatre. Attendance at performances is required.

LITERATURE: 3 credit-hours required

ENGL 112L. Introduction to Literature. Lecture 3 hours; 3 credits. This course shows the general student how to understand the distinctive forms and meanings of poems, plays and fiction, and key notions such as character, plot, and imagery. Readings, including works by women and minorities, will illustrate individual and social experiences in different times and places. This perspective course develops and reinforces written communication skills and includes relevant insights into technology.

ENGL 114L. American Writers, American Experiences. Lecture 3 hours; 3 credits. This course introduces the student to the diversity of American culture as depicted in American literature. Works include minority and women writers and provide visions of city, frontier, and regional life; ethnic, racial, and immigrant experience; religion, democracy, and capitalism. This perspective course develops and reinforces written communication skills and includes relevant insights into technology.

FLET 100L. Understanding World Literature. Lecture 3 hours; 3 credits. This multicultural course introduces the student to the forms and meanings of poems, stories, novels, and plays from around the world. It provides students with the skills necessary for the appreciation and comparative analysis of these works both as literature and as representations of rich and diverse cultural values. A primary focus of the course will be the role of culture in the formation of national and individual identity, paying special attention to gender, sexuality, race, and class. All works will be read in English.

THE NATURE OF SCIENCE: 8 credit-hours required

****Important Notes for Biology, Physics, and Ocean/Earth Sciences:** An asterisk indicates that the course is recommended for non-science majors. These departments list their courses in two-semester sequences. For example, Biology 105N could be taken in the Fall semester, followed by Biology 106N in the Spring. Each semester of the course is worth 4 credits (for lecture and lab). These courses do not have to be taken in sequence unless required by your major. In other words, you could choose to take one semester of Biology and one semester of Physics.

***BIOL 105N-BIOL 106N. Biology for Non-Science Majors I, II.** Lecture 3 hours; laboratory 2 hours; 4 credits each semester. An introductory biology course for non-biology majors. 105N concentrates on major biological concepts concerning molecular biology, cellular biology, cellular reproduction, classical and molecular genetics, energetics, and ecology. 106N concentrates on plants and animals at the organismal level examining major biological concepts involving diversity, ecology, behavior, and evolution. These courses would be beneficial to those students who are pursuing elementary education degrees because they teach biological topics included in the Virginia Standards of Learning. Cannot be substituted for BIOL 115N or 116N.

BIOL 108N-109N. Life Science I, II. Lecture 4 hours; laboratory 0 hours. An introductory biology course for non-biology majors. 108N focuses on science process, ecology, evolution, biodiversity and conservation. 109N focuses on human biology, including infectious disease; diet, exercise, and health; and human genetics and development. BIOL 108N or 109N cannot be substituted as BIOL 115N or 116N.

BIOL 115N-116N. General Biology. Lecture 4 hours; laboratory 0 hours. Prerequisite: placement into ENGL 110C and qualifying Math SAT/ACT score, qualifying score on the Math placement test, or completion of MATH 102M or higher. 115N emphasizes biological molecules, cell biology, metabolism, molecular biology, and Mendelian genetics. 116N emphasizes evolution, ecology, and organismal biology. A student receiving credit for 115N or 116N cannot receive credit for BIOL 108N or 109N, respectively.

***PHYS 101N-102N. Conceptual Physics.** Lecture 3 hours; laboratory 2 hours; 4 credits each semester. PHYS 101N is a prerequisite for 102N. An introductory descriptive course which develops and illustrates the concepts of physics in terms of phenomena encountered in daily life. The first semester covers mechanics, electricity and magnetism. The second semester covers sound, light, fluids and heat.

***PHYS 103N-104N. Introductory Astronomy.** Lecture 3 hours; laboratory 2 hours; 4 credits each semester. 103N is a study of the physical principles and scientific investigation of objects in our solar system. 104N emphasizes the study of stars, star systems, cosmology and relativity. Both semesters stress how we acquire knowledge of celestial objects to develop models of our universe.

PHYS 111N-112N. Introductory General Physics. 111N is prerequisite to 112N. Lecture 3 hours; laboratory 2 hours; 4 credits each semester. Prerequisite: MATH 102M or 162M or MATH 166. 111N emphasizes mechanics, wave motion and heat and will also cover the needed elements of trigonometry and vectors. 112N emphasizes electricity and magnetism, light, and introduction to modern physics. Students receiving credit for PHYS 111N cannot receive credit for PHYS 102N either simultaneously or subsequently.

PHYS 231N-232N. University Physics. Lecture 3 hours; laboratory 2 hours; 4 credits each semester. Co-requisite: MATH 211 or 226 or permission of instructor. 231N is prerequisite to 232N. A general introduction to physics in which the principles of classical and modern physics are applied to the solution of physical problems. The reasoning through which solutions are obtained is stressed. This course is designed for majors in the physical sciences, engineering, mathematics, and computational sciences. Students receiving credit for PHYS 231N-232N cannot simultaneously or subsequently receive credit for PHYS 101N-102N or PHYS 111N-112N.

***OEAS 106N-107N. Introductory Oceanography.** Lecture 3 hours; laboratory 2 hours; 4 credits each semester. 106N is prerequisite to 107N. 106N emphasizes geology and chemistry covering the formation and constitution of the earth and the ocean basins. 107N emphasizes physics and biology including meteorology, waves, tides, currents and life in the sea. Laboratory emphasizes practice of basic scientific methods. Knowledge of the

metric system, scientific notation, ratio and proportion, and graphing is required. Field trip and research vessel cruise are required.

***OEAS 110N-112N. Earth Science—Historical Geology.** Lecture 3 hours; laboratory 2 hours; 4 credits each semester. 110N is an introductory course in geological sciences. The course relates the principles of natural science to Earth as a planet, its resources, and its environment. The effects of geologic processes on the environment are stressed. 110N or 111N is a prerequisite for 112N. In 112N, evolution of the continents, ocean basins, mountain chains, and the major life forms throughout Earth's history are studied chronologically and are related to the physical and biological changes which have caused them. A student receiving credit for 111N cannot receive credit for 110N.

OEAS 111N-112N. Physical Geology—Historical Geology. Lecture 3 hours; laboratory 2 hours; 4 credits each semester. 111N introduces the student to the study of the materials, structures, and processes of the Earth. Present terrestrial resources are interpreted in terms of the internal and surface processes that formed them. 110N or 111N is a prerequisite for 112N. In 112N, evolution of the continents, ocean basins, mountain chains, and the major life forms throughout Earth's history are studied chronologically and are related to the physical and biological changes which have caused them. A student receiving credit for 111N cannot receive credit for 110N.

*****Important Notes for Chemistry:*** *An asterisk indicates that the course is recommended for non-science majors. This department lists its lectures and labs separately. For example, CHEM 105N is lecture and CHEM 106N is lab. These courses are taken simultaneously for a total of 4 credits. CHEM 107N and 108N would be taken the next semester. These courses do not have to be taken in sequence unless required by your major. In other words, you could choose to take one semester of Chemistry and one semester of Biology.*

CHEM 105N. Introductory Chemistry. Lecture 3 hours; 3 credits. Prerequisite: knowledge of basic algebra. Co-requisite: CHEM 106N. This course is the first part of a two-semester sequence of chemistry covering topics in general, organic, and biological chemistry. In this part, an introduction to the principles of inorganic (general) chemistry is provided. The topics to be covered include measurements, atoms and elements, compounds and their bonds, energy and matter, gases, solutions, acids and bases, chemical reactions and quantities, chemical equilibrium, and nuclear chemistry. This course does not meet the prerequisite for CHEM 123N, and cannot be used toward the CHEM major or minor. Students wishing to pursue advanced study in chemistry should take CHEM 121N, 122N, 123N, and 124N. A student receiving credit for CHEM 105N cannot receive additional credit for CHEM 121N. CHEM 105N + CHEM 106N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 106N. Introductory Chemistry Laboratory. Laboratory 2 hours; 1 credit. Corequisite or prerequisite: CHEM 105N. An introduction to common laboratory techniques and the process of science is provided. CHEM 105N + CHEM 106N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 107N. Introductory Organic and Biochemistry. Lecture 3 hours; 3 credits. Prerequisite: CHEM 105N with a grade of C or better. Co-requisite: CHEM 108N. This course is the second part of a two-semester sequence of chemistry covering topics in general, organic, and biological chemistry. In this part, an introduction to organic compounds and their role in biological systems is provided. The topics to be covered include the structure, nomenclature, and reactivity of organic compounds, the structure and function of important biomolecules, and the chemistry of metabolic pathways. This course does not meet the prerequisite for CHEM 211, and cannot be used toward the CHEM major or minor. Students wishing to pursue advanced study in chemistry should take CHEM 121N, 122N, 123N, and 124N. CHEM 107N+ CHEM 108N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 108N. Introductory Organic and Biochemistry Laboratory. Laboratory 2 hours; 1 credit. Prerequisite: CHEM 106N with a grade of C or better. Co-requisite or prerequisite: CHEM 107N. Laboratory experiments involving organic compounds and biomolecules are performed. CHEM 107N + CHEM 108N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 121N. Foundations of Chemistry I Lecture. Lecture 3 hours; 3 credits. Co-requisite or prerequisite: CHEM 122N. Prerequisite: MATH 102M or higher with a grade of C or better. High school chemistry or CHEM 103 is strongly recommended. This is the first of a two-course series, designed for science and engineering majors, that prepares the student for subsequent studies in molecular science and constitutes the foundation for all upper-level chemistry courses. Topics include the descriptive chemistry of selected elements, modern atomic and molecular structure, stoichiometry, thermochemistry, and gas laws. A student receiving credit for CHEM 121N cannot receive additional credit for CHEM 103 or CHEM 105N or CHEM 137N. CHEM 121N + CHEM 122N satisfy 4 credits of the University's Nature of Science general education requirement.

CHEM 122N. Foundations of Chemistry I Laboratory. Laboratory 2 hours; recitation 1 hour; 1 credit. Co-requisite or prerequisite: CHEM 121N. Laboratory experiments are designed to complement the topics presented in the companion lecture course, CHEM 121N. A student receiving credit for CHEM 122N cannot receive additional credit for CHEM 106N or 138N. CHEM 121N + CHEM 122N satisfy 4 credits of the University's Nature of Science general education requirement.

CHEM 123N. Foundations of Chemistry II Lecture. Lecture 3 hours; 3 credits. Co-requisite or prerequisite: CHEM 124N. Prerequisite: CHEM 121N with a grade of C or better. This is the second of a two-course series, designed for science majors, that prepares the student for subsequent studies in molecular science and constitutes the foundation for all upper-level chemistry courses. Topics include states of matter, solutions, electrochemistry, thermodynamics, equilibria, and kinetics. CHEM 123N + CHEM 124N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 124N. Foundations of Chemistry II Laboratory. Laboratory 2 hours; recitation 1 hour; 1 credit. Co-requisite or prerequisite: CHEM 123N. Prerequisites: CHEM 121N or 117 with a grade of C or better, and CHEM 122N with a grade of C or better. Laboratory experiments are designed to complement the topics in the companion lecture course, CHEM 123N. CHEM 123N + CHEM 124N satisfy four credits of the University's Nature of Science general education requirement.

CHEM 137N. Accelerated General Chemistry I and II Lecture. Lecture 3 hours; recitation 1 hour; 4 credits. Pre- or co-requisite: MATH 162M. This lecture course, along with CHEM 138N, will fulfill all requirements for a complete year of general chemistry. This combination will satisfy all general chemistry prerequisites for upper level chemistry courses.

CHEM 138N. Accelerated General Chemistry I and II Lab. Laboratory 4 hours; 2 credits. Prerequisite: CHEM 137N. This laboratory course is intended for students who have completed CHEM 137N. Experiments cover foundational topics and skills in chemistry and introduce students to chemical research.

HUMAN BEHAVIOR: 3 credit-hours required

ANTR 110S. Introduction to Anthropology. Lecture 3 hours; 3 credits. A survey of what we know about the emergence of humans: where we came from; how we developed physically and why; how human cultures became more complex through time; and the variety of human ways of life today.

COMM 200S. Introduction to Human Communication. Lecture and discussion 3 hours; 3 credits. An introduction to the discipline and methods of human communication. Survey of the major approaches to studying communication across the range of human communication contexts and functions.

CRJS 215S. Introduction to Criminology. Lecture 3 hours; 3 credits. Introduction to criminology as a science, including the study of crime, criminals, and society's response to them.

ECON 200S. Basic Economics. Lecture and discussion 3 hours; 3 credits. The course presents an overview of the major principles of micro- and macroeconomics. Topics include opportunity costs, supply and demand, competition and monopoly, national income determination, creation of money and credit, and international problems. No credit will be given to students pursuing majors in the College of Business and Public Administration.

ECON 201S. Principles of Macroeconomics. Lecture and discussion 3 hours; 3 credits. Prerequisite: qualifying Math SAT/ACT score, qualifying score on the Math placement test, or completion of MATH 102M or higher. Development of the theory of supply and demand, and their interaction in a market economy. Classical, Keynesian, and monetarist explanations of inflation and unemployment are presented and analyzed. Emphasis is placed on income determination, fiscal policy, monetary policy, and the issue of government efforts to improve economic performance.

ECON 202S. Principles of Microeconomics. Lecture and discussion 3 hours; 3 credits. Prerequisite: qualifying Math SAT/ACT score, qualifying score on the Math placement test, or completion of MATH 102M or higher. An examination of how individuals and businesses interact in a market economy. Emphasis is placed on consumer behavior, price and output decisions of firms, the economic efficiency of the resulting allocation of society's resources, and the gains from international trade and impact of trade barriers.

FIN 210S. Personal Financial Literacy. Lecture 3 hours; 3 credits. Prerequisite: MATH 102M. This is an introductory course dealing with various aspects of individual financial decision making, with an emphasis on short- and long-term personal financial planning. The course uses scenarios, practical cases, and special projects to provide concrete applications of abstract concepts.

GEOG 100S. Cultural Geography. Lecture and discussion 3 hours; 3 credits. This course provides a basic topical introduction to human and cultural geography . It focuses on the diversity of human societies, their distribution, characteristics, and cultural impact on the landscape . Topics include the geography of population , migration, language , religion, economic development, urbanization, resources , and the political landscape .

GEOG 101S. Environmental Geography. Lecture and discussion 3 hours; 3 credits. A systematic study of environmental processes, issues and patterns emphasizing the interactions among people and their ecosystems. The course focuses on the influence of the physical environment on people and the impact of people on the environment.

POLS 100S. Introduction to International Politics. Lecture and discussion 3 hours; 3 credits . This course provides a basic introduction to the study of international politics. It considers some of the more prominent theoretical perspectives in the discipline and examines the major political, economic, social, and environmental issues presently facing the global community. The course prepares students for advanced study in international politics.

POLS 101S. Introduction to American Politics. Lecture and discussion 3 hours; 3 credits. This course introduces students to the political processes and the institutions of American politics. The course examines American political culture, gender and minority rights, citizen participation, national institutions, public policy, and foreign and defense policy.

POLS 102S. Introduction to Comparative Government and Politics. Lecture 3 hours; 3 credits. This is a comparative course of political systems of established and emerging democracies and non-democratic states.

PSYC 201S. Introduction to Psychology. Lecture 3 hours; 3 credits. Introduction to the scientific study of psychology. The student is introduced to fundamental terms, facts, and concepts dealing with motivation, learning, perception, intelligence, measurement, personality structure, behavior disorders, psychological development, and social processes.

PSYC 203S. Lifespan Development. Lecture 3 hours; 3 credits. A broad contemporary view of the processes of development. The influences of biological and environmental factors in the development of personality and cognitive functioning are explored.

SOC 201S. Introduction to Sociology. Lecture 3 hours; 3 credits. An introduction to the discipline and methods of sociology . Major topics include socialization, social inequality, family, education, gender roles, ethnic and minority relations.

WMST 201S. Women in a Changing World. Lecture and discussion 3 hours; 3 credits. An introduction to the interdisciplinary field of women's studies drawing on materials from the social sciences. Topics include the social construction of gender in a multicultural setting; the reliability of studies on the "nature" of women; cross-cultural variations in women's lives; female health, work, and sexuality; and women's roles in politics.

INTERPRETING THE PAST: 3 credit-hours required

HIST 100H. Interpreting the World Past Since 1500. Lecture 3 hours; 3 credits. This course offers students a critical approach to interpreting World history. A fast-paced survey of World history from the 1500s to the present, it focuses on the major intellectual, religious, social, cultural, political, environmental and scientific developments that have influenced the course of World history. It looks at cross-cultural relations in the form of economic exchange, technology transfer, war and conquest, and international organizations.

HIST 101H. Asia in a World Setting. Lecture 3 hours; 3 credits. Surveys significant themes in the history of Asian societies and cultures, as related to other world regions, from the emergence of Indian and Chinese civilizations to the contemporary world.

HIST 102H. Europe in a World Setting. Lecture 3 hours; 3 credits. Surveys significant themes in the history of European societies and cultures, as related to other world regions, from the emergence of Mesopotamian civilizations to the contemporary world.

HIST 103H. Latin America in a World Setting. Lecture 3 hours; 3 credits. Surveys significant themes in Latin American history, as related to other world regions, from the indigenous civilizations, through conquest and colonization and the post-colonial period, to the contemporary world.

HIST 104H. United States in a World Setting. Lecture 3 hours; 3 credits. Surveys significant themes in the history of the United States, as related to other world regions, from the period of European exploration to the contemporary world.

HIST 105H. Africa in a World Setting. Lecture 3 hours; 3 credits. This is an introductory course on the history of African peoples, culture, and the African Diaspora. The course will explore the early history of the continental societies, kingdoms and empires, the economic, political and cultural institutions of Africa, and the history and consequences of the interactions both within Africa and overseas. It will also examine the impact of Christianity and Islam and of European colonialism and formally trace the development of modern African states from the indigenous civilizations, through conquest and colonization and the postcolonial period, to the contemporary world.

PHILOSOPHY AND ETHICS: 3 credit-hours required

(Sometimes this requirement is met within your major.)

PHIL 110P. Introduction to Philosophy. Lecture 3 hours; 3 credits. An introduction to basic concepts, methods and issues in philosophy, and a consideration of representative types of philosophical thought concerning human nature, the world, knowledge, and value.

PHIL 120P. Logic and Philosophy. Lecture 3 hours; 3 credits. A study of the principles of correct reasoning and the types of fallacious reasoning. Includes an examination of the philosophical and historical context of logic, and the application of logical methods to philosophical questions.

PHIL 140P. Introduction to the Philosophy of Science: Knowledge, Reality, and Values. Lecture 3 hours; 3 credits. Scientific developments are used as an occasion for philosophical reflection. In the process the student is led to a better understanding of science. The course introduces and makes use of basic logical and conceptual tools of philosophy.

PHIL 230E. Introduction to Ethics. Lecture 3 hours; 3 credits. An introduction to the study of ethics through philosophical reflection on a variety of moral issues of contemporary significance. Topics covered will vary by semester and instructor, but may include issues drawn from professional fields such as business, medicine, and

information technology, plus matters of public concern like the environment, the treatment of animals, the use of military force, social justice, and civil and human rights.

PHIL 250E. World Religions: Beliefs, and Values. Lecture 3 hours; 3 credits. A comparative and philosophical study of major world religions in the Eastern and Western traditions, with particular attention being paid to their views about the basis of right action and the nature of good and evil. Other points of comparison include the foundations of religious knowledge and belief, the meaning of human life, divinity, and death and immortality.

PHIL 303E Business Ethics. Lecture 3 hours; 3 credits. Prerequisite: ENGL 110C. A philosophical examination of ethical issues that arise in business and commerce. Topics discussed will vary by semester and instructor, but may include affirmative action, ethical versus unethical sales and marketing techniques, the obligations of business to society (if any), and the moral foundations of capitalism.

PHIL 344E. Environmental Ethics. Lecture 3 hours; 3 credits. Prerequisite: ENGL 110C. A philosophical examination of the nature and basis of human obligations for the condition of the environment with special attention to the foundations of ethical decision making.

PHIL 345E. Bioethics. Lecture 3 hours; 3 credits. Prerequisite: ENGL 110C. An examination of the philosophical foundations of ethical decision making in biology, medicine, and the life sciences.

PHIL 441E. Foundations of Ethics. Lecture 3 hours; 3 credits. Prerequisites: ENGL 211C, 221C or 231C; junior standing. An inquiry into the philosophical foundations of ethical theory. Various ethical systems are considered, and different views of meta-ethics and moral psychology may be as well.

PHIL 442E. Studies in Applied Ethics. Lecture 3 hours; 3 credits. Prerequisites: ENGL 110C and junior standing. An intensive examination of ethical issues in a particular field or profession; an emphasis on ethical theory underlying practical decisions.

THE IMPACT OF TECHNOLOGY: 3 credit-hours required

COMM 372T. Introduction to New Media Technologies. Lecture 3 hours; 3 credits. Prerequisite: junior standing or permission of the instructor. Introduction to new media practices and theories. Focuses upon the powers of composition, networked communities, information management, social networking and identification in digital environments. Students will examine practical applications such as blogging, online mapping and tagging, online collaborative work such as wikis, and self composition in online social networks.

CS 300T. Computers in Society. Lecture 3 hours; 3 credits. Prerequisites: ENGL 110C and completion of oral communication requirement. Covers changes in the world's society due to continuing implementation of computer technologies. Evaluation of technological expansions in areas of governments, business/industry, education, medicine, transportation, communication, and entertainment. Topics include: intellectual property, software piracy, computer crimes and ethics. Students must research a societal topic and present results in written and oral forms.

DNTH 440T. Telehealthcare Technology. Lecture 3 hours; 3 credits. Prerequisite: permission of the instructor. This course will examine the concept, global impact, and trends in telehealthcare technology on the client/patient, multidisciplinary practitioners, and various healthcare systems. Emphasis is on effective evidence-based decision making to reduce errors in patient care, promote care in remote or underserved geographical areas, and the ability to retrieve and evaluate healthcare information that improves access to quality, cost effective health care.

ENGL 307T. Introduction to Digital Writing. Lecture 3 hours; 3 credits. Prerequisites: ENGLS 110C, 111C. This course introduces students to issues of writing in various digital environments such as web pages, email, blogs, wikis, and discussion boards. This class also introduces fundamentals of hypertext authoring, digital and visual rhetoric, and image manipulation.

GEOG 306T. Hazards: Natural and Technological. Lecture and discussion 3 hours; 3 credits. Prerequisites: junior standing and six credits in the social sciences or permission of the instructor. An exploration of human perceptions of and responses to extreme geophysical and technological threats, including nuclear bombs and accidents, hurricanes, tornadoes, earthquakes, and volcanoes.

HIST 300T. The History of Sex and Sexual and Reproductive Technologies. Lecture 3 hours; 3 credits. Prerequisite: HIST 100H, 101H, 102H, 103H, 104H or 105H. The course explores the many ways sex, gender, sexuality and sexual identities have been constructed in Western thought from around 500 BC to the present. The medicalization of sex and sexual practices will be examined. Sexual perversions such as prostitution, pornography, and sexual violence will be explored. The course will also focus on the technology of sexual enhancement and production and the ethics involved in these areas.

HIST/ SCI 386T. The Evolution of Modern Science. Lecture 3 hours; 3 credits. This course outlines the history of science from Aristotle to the present. Scientific progress has always been coupled with human progress and subject to the politics and culture of the times. Scientists, in most instances, have been in the mainstream of society. But, because of their curiosity and innovation, scientists have often clashed with the prevailing culture.

HIST 386T/SCI 302T. The Evolution of Modern Science. Lecture 3 hours; 3 credits. Prerequisite: HIST 100H, 101H, 102H, 103H, 104H or 105H. Traces the development of modern science from the ancient Greeks to the 21st Century.

HIST 389T. Technology and Civilization. Lecture 3 hours; 3 credits. Prerequisite: 3 hours of history. This course will examine the role of technology and relevant science. Students will examine the interaction between society and technology and investigate why technology is both a reflection of, and a shaping influence upon, modern culture.

HIST 304T. History of Medicine, Disease, and Health Technology. Lecture 3 hours; 3 credits. Prerequisite: HIST 101H, 102H, 103H, 104H or 105H. Examines the history of medicine and epidemiology from ancient times through the twenty-first century. The course takes a comparative look at medical practices in Europe and around the globe and focuses heavily on the complex relationship between human societies and disease. The development of medical technologies and their impact are examined.

IT 360T. Principles of Information Technology. Lecture and discussion 3 hours; 3 credits. Prerequisite: completion of general education computer literacy requirement; junior standing and admission to the Bachelor of Science in Business Administration or permission of the associate dean of the College of Business and Public Administration. A survey of computer hardware, software, procedures, applications, and management information concepts. Provides an understanding of the application of the computer to the support of managerial decision making. Information Systems majors may not use this course for credit toward the B.S.B.A. degree.

MUSC 335T. Introduction to MIDI Technology. Lecture 2 hours; laboratory 2 hours; 3 credits. Prerequisite: music student or permission of instructor. This course will introduce students to MIDI technology with an emphasis on sequencing and editing techniques and music notation skills.

STEM 110T. Technology and Your World. Lecture and application 3 hours; 3 credits. An overview of the resources and systems of technology. Emphasis is on impacts that technology has on individuals and their careers. Discussion and activities explore the evolution of technology, its major systems and their impact on individuals and their careers.

STEM 370T. Technology and Society. (writing intensive course) Lecture 3 hours; 3 credits. Prerequisites: junior standing or permission of the instructor. A multidisciplinary course designed to provide insight into the fundamental, historical, and contemporary nature of technology as an area of human knowledge. Attention is given to the positive and negative aspects of technology and how they affect society.

PHIL 383T. Technology: Its Nature and Significance. Lecture 3 hours; 3 credits. Prerequisites: junior standing and three semester hours in philosophy or permission of the instructor. A philosophical examination of

technology with special attention to its relationship with and mutual dependence upon society, culture, and human values. Historical developments and specific technologies will also be covered.

POLS 350T. Technology and War. Lecture 3 hours; 3 credits. Prerequisite: POLS 100S or permission of the instructor. Studies the broad interaction of human war-making and technological advancements from earliest times to the present. Examines how technology has affected the outbreak and outcome of wars, and how warfare has influenced technology races and produced countermeasures by the technologically disadvantaged. Focuses on the emergence of weapons of mass destruction (nuclear, chemical, biological). Evaluates feasibility and consequences of measures designed to curtail advanced-weapons proliferation. Surveys high-tech warfare trends into the 21st century. Considers whether technology will make warfare irreconcilable with human life on earth.

WMST 390T. Women and Technology Worldwide. Lecture 3 hours; 3 credits. Prerequisites: three semester hours in the social sciences or history. An exploration of women as designers and users of technology and of the impact of technology on women's lives across the world. Variations in women's experiences by race, class, and culture will be stressed.

UPPER DIVISION

1. Written Communication (approved W course) within the major – 3 hours
2. Upper-Division Fulfillment Options – minimum 6 hours
 - Option A: Disciplinary Minor (a minimum of 12 hours determined by the department) or a second Major of second Degree.
 - Option B: Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major).
 - Option C: International Business and Regional Courses or an approved Certification Program such as teaching licensure.
 - Option D: 6 hours of elective upper-division courses from outside of and not required by the student's major and college.