

PERS: PERSPECTIVE COURSES

**The Core Curriculum requires two Perspective courses,
each from a different area of the perspectives.**

Area 1 - Perspectives on Ethics and Values

PERS 2110 Ethical Concepts in Technology **2-0-2**

Examination of technological issues and decisions which involve ethical considerations to understand their impact on society, including the role of ethics in problem solving, safety and risk in design, and risk-benefit analysis, applied to global and regional issues.

PERS 2120 Ethics and the News Media **2-0-2**

A study of ethical issues in the news media from various regions across the country and various nations with special emphasis on the pursuit of news (objectivity, conflict of interest, making or reporting news, investigative journalism), advertising, terrorism in the media, the reporter and personal ethics, and freedom of the press.

Area 2 - Perspectives on Tradition and Change

PERS 2210 Women's Voices **2-0-2**

The changing tradition of women's writing from the Middle Ages to the contemporary works of Chicana and Southern women authors. The multiplicity of women's identities and experiences as viewed through world literature written by women. Authors may include but are not limited to: Christine De Pisan, Aphra Behn, Sor Juana Ines de la Cruz, Luisa Valenzuela, Sandra Cisneros, Gabrielle Roy, Maxine Hong Kingston, Fannie Flag.

PERS 2220 Georgia, A Spanish Borderland **2-0-2**

A study of Georgia's native American and Spanish heritage from A.D. 1000 to 1743. Beginning with prehistory, the course will focus on the impact of Spanish exploration and settlement, using both the disciplines of history and anthropology.

PERS 2230 Culture and Politics of the South **2-0-2**

A focus on the distinctive sociology, anthropology, and politics of the southern region and its relationship to global regional studies. Special emphasis is placed on developing an understanding of the influence that political culture has on human behavior. An appreciation of the difference and similarities in the scope and methods of the social science disciplines is fostered.

Area 3 - Perspectives on Human Expression

PERS 2300 Stimulating Creative Behavior **1-2-2**

A study of creative problem-solving, including an overview of selected models of creativity, the application of selected problem-solving strategies, the identification of regional and global exemplars of creative problem-solving, and the utility of technology for information acquisition and manipulation.

PERS 2310 Literature and Journalism

2-0-2

Explores the relationship between the practice of journalism and literature from several regions across the country and various nations over the past 150 years. It will address the relationship between “journalistic” and “literary” truth, journalistic and literary style, and parallels between the social role of the journalist and fiction writer.

PERS 2320 Cultural Representation in the Press

2-0-2

An examination of the cultural diversity of international, national, and regional press systems. Emphasis will be placed upon the examination of key roles the press plays in the establishment and promotion of various cultural identities. Press history and communication theory are major components of the course.

PERS 2330 Women in the Visual Arts

2-0-2

A study of the global and regional artistic and cultural achievements by women from the prehistoric period to the late 20th century, in the context of social, political, economic, and historic issues.

PERS 2340 Female Heroes in Religion and Art

2-0-2

Explores myths, legends, folklore and visual imagery representing female heroes in various religious traditions across cultures (global and regional) and across centuries. Themes explored include determining what constitutes a heroic religious female figure within a particular culture, artistic conventions that influence the representation of the female hero, and reading images in the visual arts as texts.

PERS 2350 Religion and Culture

2-0-2

An interdisciplinary, multicultural course that presents an academic study of religion in the context of the social sciences and humanities. The course will explore why people are religious, how they are religious, how religion bonds them together but they often kill each other over religious concerns. Materials emphasizing human religiousness within global, national, and regional cultural settings are implemented as illustrations or case studies. Novels, movies, and visits to traditional religious ceremonies will be used as data in the course.

PERS 2360 Development of the French, English, and American Theaters

2-0-2

A perspective on aspects of human expression through a chronological overview of theatrical arts in France, England, and the United States. Emphasis is given to origins, historical development, national characteristics, influences, and trends of the theatrical arts in these three countries. Works by southern playwrights and/or depictions of the South are included.

PERS 2370 American Film

2-0-2

A study of the development of the American film industry; a review of its major eras of silent film, films of the Depression period—positive and negative, the years of World Wars, the 50’s, 60’s and beyond; a study of the technology of American film; and a review of avant garde movements. This course features a study of the cultural interrelationships between the southern region of the United States and the rest of the country.

- PERS 2380 Arts Perspective** 2-0-2
A broad, interdisciplinary overview of the arts as communication, expression, and environment in both a southern and national cultural perspective. It includes emphasis areas from the departments of communication arts, music, and art. Students will be involved in a broad range of leaning activities to include direct experience, observation, research, and class presentations.
- PERS 2381 Arts Perspective II** 2-0-2
The analysis, synthesis, and communication of the interrelationships among the arts and on the parallel skill development in creative expression, using one mode of artistic expression to stimulate creative response in another.
- PERS 2390 Communication Systems** 2-0-2
The development and application of speech/artistic communication skills in both a southern and national cultural perspective that will affect the student's educational, religious, economic, social, and professional life in the 21st century.
- PERS 2391 Experiences in Communication Arts** 2-0-2
Provides a broad, interdisciplinary overview of public modes of oral, human expression. Course includes oratorical, theatrical, and electronic media experiences.

Area 4 - Perspectives on the Environment and Physical World

- PERS 2410 History of Spaceflight** 2-0-2
A brief survey of the history of space technology from Leonardo da Vinci to the modern era, followed by an examination of the development of spaceflight from Sputnik to the Space Station, including the impact of the space program on the Southeastern region.
- PERS 2420 Scientific Dimensions of Environmental Change** 2-0-2
An introduction to the scientific basis of some of the most important environmental issues facing modern society, global warming, stratospheric ozone depletion, water and air pollution, loss of biodiversity, the spread of infectious disease, or other important global and regional issues will be examined from the perspectives of biologists, chemists, and earth scientists.
- PERS 2430 Nutrition** 2-0-2
An introduction to the interrelationships among nutrition, food, and the environment as they impact health status. The emphasis is on multiple factors that influence food intake and the sum total of nutritional processes resulting in optimal physiological functioning. The role and function of nutrients in health promotion and wellness throughout the life cycle will be discussed with a regional and global perspective.
- PERS 2440 The Built Environment** 2-0-2
A study of significant world, national, and regional architectural achievements, from Stonehenge to American shopping malls, in the context of historical achievements, economic factors, and political events.

PERS 2450 The New Millennium**2-0-2**

Scientific, philosophic, and sociocultural causes, effects, and implications of environmental degradation; discussion of future scenarios and plausible solutions to environmental problems. The first part is an overview of ecological systems, population processes, and the nature of biological diversity; categories of natural resources; summary of forms of environmental decay (e.g. pollution, acid rain, global warming, extinction) affecting the natural world and human health; and ethical and cultural perspectives on environmental problems and solutions. The second part is an in-depth analysis of a particular topic, offered in 5 modules: 1) causes and consequences of population growth, 2) issues in biodiversity and wilderness preservation, 3) pollution and global climate change, 4) issues in energy and materials production and consumption, 5) cultural views of nature, environmental ethics, and building a sustainable future.

PERS 2460 Science and Humanities Exploring the World**2-0-2**

Focus on the intersection between science and literature regarding the global and regional environment. An examination of scientific principles behind the natural regulation of the earth's atmosphere and consequences of an imbalance in those principles, coupled with reading important literary documents responsible for the general public's understanding of scientific processes in ecology.

PERS 2470 Reading the Earth**2-0-2**

A study of the Earth from both the geological and humanistic perspectives. Students will learn how geologists "read rocks" to decipher the history of past landscapes, climate, and life, and apply these skills to explore the geological history of Georgia. For the humanistic perspective, literature and film will be used to focus on the Earth and our understanding of it.

PERS 2480 Infectious Diseases and History**2-0-2**

Survey of the role of infectious diseases in shaping world and regional history. Diseases and other topics to be covered each semester will vary. Examples include plague, Hansen's disease (leprosy), smallpox, cholera, tuberculosis, typhus, yellow fever, influenza, AIDS, and biological warfare.

Area 5 - Perspectives on Race and Gender**PERS 2510 African American Art and Culture****2-0-2**

A study of African American art, life, and culture from the late 18th century to the late 20th century. The course will focus on the role of Africa and its impulses and traditions, the role of European influences, and national literary and artistic movements. Emphasis will be placed on the contributions of African American artists in the Southeastern region of the United States.

PERS 2520 Women and the Press**2-0-2**

An examination of the historical, political, and social factors which have affected the participation, or lack thereof, of women in the mass media internationally, nationally, and regionally. Special emphasis will be placed on media's contribution to the creation of the various stereotypes of women in societies and to its effects on major women's movements.

PERS 2530 Gender, Justice, and the Family 2-0-2

An exploration of the nature of laws and their implications for men and women and children. Possible topics include: gender-based justice; justice and “family values”; legal theory and the politics of sexual equality. Cross-cultural comparisons and contrasts will be drawn between the domestic laws of other cultures and those of the southeast United States.

PERS 2540 The Myth of Southern Womanhood 2-0-2

An examination of the ideal Southern woman, as portrayed in regional myth, literature, and film. Students will also examine the myth from a broader perspective: how the Southern woman compares to other images of women throughout the world.

Area 6 - Perspectives on Cross-Cultural Understanding and Expression

PERS 2610 Tradition and Identity 2-0-2

A study of the literary representation of selected universal concepts underlying the traditions that shape individual and national identity within diverse cultures. Cross-cultural themes and metaphors such as the relationship between the individual and family, land, ritual, and society will be explored in works from different nations, with readings from such writers as Lorca, Yeats, Esquivel, Synge, Williams, LeGuin, and Mitchell. The course will feature readings and films, a presentation by a regional writer, and a field trip.

PERS 2620 Literature and History of the Vietnam War 2-0-2

An examination of the involvement of the United States in Vietnam from 1945 to today. Through readings in history and literature, students will learn about major social, cultural, historical, and regional developments in these years. An understanding of Vietnam culture will also be a part of this course.

PERS 2630 Racism in Retreat 2-0-2

An interdisciplinary exploration of racial prejudice, bigotry, and hatred. Themes will include history of race relations in America (examined through regional and global perspectives), institutional racism, and the need for toleration and equality. This course will consist of an intensive off-campus retreat over two weekends in the term. Following and individual meeting with faculty, students will engage in selected readings and assignments and participate in discussions, exercises and activities, before, during, and after the retreat as they confront the faces of racism.

PERS 2640 Law and Justice Around the World 2-0-2

A cross-disciplinary course in which law and criminal justice in the United States are compared with major systems of law and justice in the world. The course gives extensive attention to the rule of law and particular attention to the influence of other systems of law on that of Georgia and the United States.

PERS 2650 Christianity and Islam 2-0-2

An exploration of the principal defining characteristics of two major world religions, Christianity and Islam. A brief historical overview is followed by discussion of the global proliferation of these traditions and their contributions to the cultures in which they are established. Global and regional issues confronting each tradition in the present day are identified and discussed.

PERS 2660 Culture, Context, and Communication

2-0-2

Dimensions of culture and how these dimensions serve as barriers or bridges to communication and understanding. American values and cultural norms—especially those of the region and the South generally—as well as foreign perceptions of these values and norms, are used as a frame of reference in analyzing specific incidents of cultural misunderstanding and value conflicts. Particular emphasis is placed on contrasting American (and specifically Southern) culture with lesser known cultures of the non-Western world.

PERS 2670 Latin American Studies

2-0-2

An exploration of a variety of topics related to the study of Latin America and the Hispanic populations of the United States, including language, literature, geography, ethnicity, social structure, religion, music, and contemporary issues. United States and Latin American perspectives will be covered with specific attention given to the Hispanic community in the southeastern United States.

PERS 2680 Crossroads, Cross Cultures - Exploring the Global Village

2-0-2

An introduction to selected cultures of the major world regions including the Americas, Western Europe, Africa, Asia, the Middle East, the Far East, and Indonesia. The cultural cluster areas covered will be: 1) language and communication, 2) social variables, 3) geographical variables, 4) cross cultural environment, and 5) current political systems. Students will also look at the regional culture of south Georgia and integrate knowledge of that culture within the international context, thereby increasing awareness of the diversity/similarity of communities within the global village.

PERS 2690 Multicultural America

2-0-2

An examination of issues raised by living in a multicultural society. Through discussions of films and readings, students will consider how different cultures have shaped the United States in the past and where such shapings might lead in the future.

PHIL: PHILOSOPHY

PHIL 2010 Fundamentals of Philosophy

3-0-3

An introduction to the principal problems with which philosophy is concerned: methods of inquiry; principles of critical reasoning; analysis of values and value systems; appraisals and analyses of basic beliefs and attitudes. Emphasis is on the contribution of important movements and major philosophers and on the relevance of philosophy to religious, political, social, ethical, and/or scientific issues.

PHIL 2010H Honors Fundamentals of Philosophy

3-0-3

An introduction to the principal problems with which philosophy is concerned: methods of inquiry; principles of critical reasoning; analysis of values and value systems; appraisals and analyses of basic beliefs and attitudes, taught in an enriched, discussion-oriented environment. Emphasis is on the contribution of important movements and major philosophers and on the relevance of philosophy to religions, political, social, ethical, and/or scientific issues.

- PHIL2020 Principles of Logic and Argumentation** 3-0-3
 An introduction to the principles of logic and the nature of argumentation. Attention is given to language analysis, fallacies of reasoning, deductive and inductive procedures, subjective factors of reasoning and scientific method. Emphasis is on the practical application of basic principles to the analyses of ethical, political, and legal arguments and theories.
- PHIL2020H Honors Principles of Logic and Argumentation** 3-0-3
 An introduction to the principles of logic and the nature of argumentation, taught in a discussion-oriented environment emphasizing reasoned discourse. Attention is given to language analysis, fallacies of reasoning, deductive and inductive procedures, subjective factors of reasoning and scientific method. Emphasis in on the practical application of basic principles to the analyses of ethical, political, and legal arguments and theories.
- PHIL3060 History of Ancient Philosophy** 3-0-3
Prerequisite: PHIL2010 or PHIL2010H or consent of the instructor. A historical survey of philosophy of the ancient period, including Greek, Roman and other traditions.
- PHIL3070 History of Medieval Philosophy** 3-0-3
Prerequisite: PHIL2010 or PHIL2010H or consent of the instructor. A historical survey of philosophy of the medieval period.
- PHIL3080 History of Early Modern Philosophy** 3-0-3
Prerequisite: PHIL2010 or PHIL2010H or consent of the instructor. A historical survey of philosophy of the early modern period, ranging from the 16th to the 18th centuries.
- PHIL3090 History of Late Modern Philosophy** 3-0-3
Prerequisite: PHIL-2010 or PHIL2010H or consent of the instructor. A historical survey of philosophy of the late modern period, ranging from the 19th to the 20th centuries.
- PHIL3100 Ethics and Health Care** 3-0-3
 A study of ethical issues in health care delivery, with special emphasis on abortion, euthanasia, paternalism and autonomy, confidentiality, medical experimentation and informed consent, allocation of scarce resources, and the right to health care.
- PHIL3110 Aesthetics** 3-0-3
 A study of the nature of art and theories of value.
- PHIL3120 Ethical Theory** 3-0-3
 An introduction to ethical theory, with special emphasis on survey of classical theorists and on the study of theoretical debates in normative ethics.
- PHIL3130 Social and Political Philosophy** 3-0-3
 An introduction to social theory and practice, with special emphasis on survey of classical theories and the study of practical policy issues.
- PHIL3140 Ethics and Law** 3-0-3
 A study of ethical issues in law and society, with special emphasis on the nature of law and legal reasoning, of responsibility and punishment, constitutional adjudication, procedural justice, the limits of liberty, and civil disobedience.

- PHIL 3150 Ethics and Business** 3-0-3
A study of ethical issues in business and society, with special emphasis on corporate responsibility, regulation of business, and the protection of workers, consumers and the environment.
- PHIL 3160 Ethics and Media** 3-0-3
A study of ethical issues in the media, with special emphasis on pursuit of news, advertising, media lobbying, terrorism and the media, the reporter and personal ethics, freedom of the press, and ethics and the Internet.
- PHIL 3170 Ethics and Sport** 3-0-3
A study of ethical issues in sport and society, with special emphasis on issues such as contest and competition, commercialization of sport, cheating, drug use, violence, gender and racial discrimination.
- PHIL 3180 Ethics and the Environment** 3-0-3
A study of ethical issues in our interaction with the environment, with special emphasis on the defining of an environmental ethic and on specific issues such as restrictions on land use, the use of cost-benefit analysis, and the protection of endangered species and habitats.
- PHIL 3190 Ethics and the Social Sciences** 3-0-3
A study of ethical issues in the social sciences, with special emphasis on issues such as human and animal experimentation, counseling, behavior control, punishment, psychological and sociological determination, and gender and racial discrimination.
- PHIL 3200 Philosophy of Science** 3-0-3
A study of philosophical problems and issues in science, including theories of explanation, scientific method, implications of science practice on society.
- PHIL 3210 Ethics and Technology** 3-0-3
A study of ethical issues in technology and society, with emphasis on developing a philosophy of technology and on issues such as automation, artificial intelligence, nuclear technologies, and the impact of new technologies on existing social structures.
- PHIL 3220 Cosmology** 3-0-3
Also offered as ASTR 3220. Prerequisite: ASTR 1020K and PHIL 2010 or PHIL 2010H or consent of the instructor. A scientific and philosophical study of our perception of the universe, including the world views of Ptolemy, Copernicus, and Einstein.
- PHIL 3230 Philosophy of Mind** 3-0-3
A study and analysis of main issues in philosophical psychology and cognitive science, including the nature of the mental, models of thought and rationality, the role of emotions, the problem of free will, and virtual reality.
- PHIL 3300 Philosophy of Religion** 3-0-3
Also offered as REL 3300. The study of basic problems of religious belief and critical analysis of proposed solutions to these problems.

- PHIL 3310 World Religions** 3-0-3
Also offered as REL 3310. A study of World Religions which situates the major religious traditions in their historical and cultural contexts. In a quest to identify both the rich diversity among these traditions and their commonalities, the Great Tradition of sacred texts and doctrines and the Little Traditions as it pertains to ritual and praxis are explored.
- PHIL 3390 Concepts of God** 3-0-3
Also offered as REL 3390. An examination of a range of differing interpretations of the concept “God”, undertaken primarily from the standpoint of philosophical inquiry regarding a predominantly religious theme.
- PHIL 3400 Existentialism** 3-0-3
Also offered as REL 3400. The study of some of the principal existentialist thinkers such as Sartre, Heidegger, Buber, and Jaspers.
- PHIL 3410 Philosophy of Human Nature** 3-0-3
Also offered as REL 3410. An introduction to some major concepts of human nature that have influenced Western thought from the time of early Judaism, Plato, and Early Christianity. This course includes the contributions of later political theorists, scientists, social scientists, philosophers and theologians.
- PHIL 3430 American Philosophy** 3-0-3
 A study of American philosophical thought.
- PHIL 4120 Ethics and Public Policy** 3-0-3
 A study of ethical issues involved in public policy, with special emphasis on issues such as affirmative action, abortion, euthanasia, capital punishment, free speech and privacy.
- PHIL 4220 Ethics and Public Administration** 3-0-3
 A study of ethical issues in public administration, with special emphasis on developing analytical skills in ethical decision-making in the public sector, highlighting the role of ethics and professional responsibility in public service, and identifying situations involving professional malfeasance such as conflict of interest.
- PHIL 4800 Special Topics in Philosophy** 1-0-1 to 3-0-3
 A study of selected topics in philosophy.
- PHIL 4810 Directed Study in Philosophy** 1-0-1 to 3-0-3
 An individual study of a special area of philosophy under supervision of the instructor.
- PHIL 4900 Special Topics in Ethics** 1-0-1 to 3-0-3
 A study of selected topics in theoretical and applied ethics.
- PHIL 4910 Directed Study in Ethics** 1-0-1 to 3-0-3
 An individual study of a special area of ethics under supervision of instructor.
- PHIL 4920 Metaphilosophy** 3-0-3
Prerequisite: Senior Philosophy Major. A Capstone course for senior philosophy majors, which includes individual research projects on selected themes, presented by students to their peers and to the philosophy faculty, who are participants in the course. World Wide Web Internet technology is included in course research and presentation.

PHSC: PHYSICAL SCIENCE

PHSC 1100 The Universe of Energy **3-0-3**

Prerequisite: MATH 1111 with a grade of C or better, or consent of the instructor.

A survey of the physical sciences focused upon the theme of energy. The concept of energy as a physical quantity is developed, and implications of the Law of Conservation of Energy are explored. Issues related to the utilization of energy in an industrial society are discussed, and examples of geological, meteorological, astrophysical, and chemical processes which involve energy are presented.

PHSC 3010 Experimental Physical Science **2-4-4**

Prerequisite: MATH 1111 or equivalent. This course covers the basic principles of physical science, and how apparatus can be built from commonly available materials in order to demonstrate these principles.

PHSC 3050 Observational Astronomy **2-4-4**

Prerequisite: PHSC 1100, and GEOL 3020 or ASTR 1020K, or the consent of the instructor. A study of the observation of celestial objects visible to the unaided eye, with astronomical photography, the position and motion of objects in the sky, locating celestial objects with the telescope and the use of star charts. The course consists of about 25 hours of lecture and 50 hours of laboratory work.

PHYS: PHYSICS

PHYS 1111K - 1112K Introductory Physics I, II **3-2-4 each**

Pre- or co-requisite for PHYS 1111K: MATH 1113. **Prerequisite for PHYS 1112K:** PHYS 1111. An introductory course which will include material from mechanics, thermodynamics, and waves in PHYS 1111K, and electromagnetism, optics, and modern physics in PHYS 1112K. Elementary algebra and trigonometry will be used. Three lecture hours and one two-hour laboratory per week.

PHYS 2010 Tools of Physics **0-2-1**

An introduction to research techniques for the incoming Physics major. Includes laboratory safety, research methods, exploration of resources (library and Internet), and an outline of the discipline.

PHYS 2211K - 2212K Principles of Physics I, II **3-2-4 each**

Pre- or co-requisite for PHYS 2211K: MATH 2261. **Prerequisite for PHYS 2212K:** PHYS 2211. An introductory course which will include material from mechanics, thermodynamics, and waves in PHYS 2211K, and electromagnetism, optics, and modern physics in PHYS 2212K. Elementary differential calculus will be used in PHYS 2211K; elementary differential and integral calculus will be used in PHYS 2212K. Three lecture hours and one two-hour laboratory per week.

PHYS 3040 Electronics **2-4-4**

Prerequisite: PHYS 2212K. A lecture-laboratory study of basic electrical circuits and techniques, including extensive use of the oscilloscope. Both continuous wave and pulse phenomena are treated.

- PHYS 3100 Optics** 2-2-3
Prerequisites: PHYS 2212K, MATH 2263, MATH 3340. An intermediate level course with emphasis on physical optics. Topics include interference, polarization, dispersion, absorption, resonance and quantum effects. The electromagnetic nature of light is emphasized.
- PHYS 3810 Mathematical Methods of Physics** 3-0-3
Prerequisites: PHYS 2212K and MATH 2263. Special topics in mathematics as related to advanced study in physics. Topics include vector analysis, differential equations, orthogonal functions, eigenvalue problems, matrix methods, and complex variables.
- PHYS 3820 Computational Physics** 3-0-3
Prerequisites: PHYS 2212K and MATH 2263. Topics include formulation of equations describing physical systems and the use of computers to solve them, computer simulations of physical systems, the use of computers to acquire and analyze data, and graphical methods of displaying data.
- PHYS 4040 Experimental Physics** 2-4-4
Prerequisite: PHYS 2212K. A lecture-laboratory course devoted to techniques of research in experimental physics. Topics include treatment of data, vacuum techniques, magnetic devices, preparation and manipulation of beams of particles, and radioactivity. A number of modern physics experiments are studied and performed.
- PHYS 4111-4112 Theoretical Mechanics I, II** 3-0-3 each
Prerequisite: MATH 2263 and PHYS 2211K. Topics include Newtonian mechanics, conservation laws, Lagrange's equations, and relativity.
- PHYS 4211-4212 Electromagnetism I, II** 3-0-3 each
Prerequisite for PHYS 4211: PHYS 2212K, MATH 2263. **Prerequisite for PHYS 4212:** PHYS 4211. Topics include electrostatics, magnetostatics, time varying electric and magnetic fields, Maxwell's equations, and propagation of electromagnetic waves.
- PHYS 4310 Statistical Physics** 3-0-3
Prerequisite: MATH 2263, PHYS 2211K. A study of kinetic theory and statistical mechanics with a brief treatment of classical thermodynamics.
- PHYS 4411-4412 Modern Physics, I, II** 3-0-3 each
Co-requisite for PHYS 4411: PHYS 4111; **Prerequisite for PHYS 4412:** PHYS 4411. An introduction to twentieth-century physics with the emphasis on quantum mechanics and its applications to atomic and nuclear structure, and to solid state physics. Both wave and matrix formalisms are developed, along with their experimental implications.
- PHYS 4501-4502 Capstone Seminar I, II** 1-0-1, 2-0-2
Prerequisite: Senior standing. A study of current developments in the fields of physics. Written and oral presentations will be required of all students.
- PHYS 4800 Internship in Physics** 0-6-3 to 0-12-6
 Active participation in research in physics or in a field of science closely allied with physics, such as biophysics. A daily log of activities, a report on the work done, and a research paper relating the work done to the field of physics are required.

- PHYS 4900 Special Topics in Physics** **1-0-1 to 4-4-6**
Prerequisite: Consent of advisor and instructor, and at least junior standing.
 Topics to be assigned by instructor; may be taken more than once if topics are different, up to a total of 6 credit hours.
- PHYS 4950 Directed Study in Physics** **1-0-1 to 4-4-6**
Prerequisite: At least Junior standing; permission of advisor, instructor, and department head. Study in area or subject not normally found in established courses offered by the department; may also allow student to explore in more detail and/or depth an area or subject covered by the department in physics. Up to a maximum of 12 credit hours.

POLS: POLITICAL SCIENCE

- POLS 1101 American Government I** **3-0-3**
 An examination of the fundamental institutions and political processes of the American system of government. Students are also given an overview of Georgia's Constitution, state politics, and state government institutions. **POLS 1101** satisfies legislative requirements for the study of U.S. and Georgia Constitutions.
- POLS 1101H Honors American Government** **3-0-3**
 A survey course to provide honors students with an understanding of the institutions and political processes of the American system of government, taught in an enriched environment. Students are also given an overview of Georgia's Constitution, state politics, and state government institutions. **POLS 1101H** satisfies legislative requirements for the study of U.S. and Georgia Constitutions.
- POLS 1102 American Government II** **3-0-3**
 A continuation of **POLS 1101**. Building on the constitutional foundations, this course provides students with a basic understanding of the American public policy process. Topics include policymaking, fiscal, monetary, and budgetary policy, distributive, regulatory, and redistributive policy. **POLS 1102** does not satisfy legislative requirements for the study of U.S. and Georgia Constitutions.
- POLS 2101 Introduction To Political Science** **3-0-3**
 An introduction to Political Science as a field of inquiry. Surveys the subfields of the discipline of Political Science, including American, comparative, and international politics; political theory, public law, and public administration.
- POLS 2401 Introduction To Global Issues** **3-0-3**
 A survey of contemporary political issues arising both internationally and in the United States. Discussion will focus upon a number of controversial political topics currently being debated in the United States such as electoral reform, social and welfare issues, and role of the U.S. in the world. The course will also examine issues of a more international nature such as global security, international trade and economics, human rights, and the moral responsibilities of nation-states.

- POLS 2401H Honors Introduction To Global Issues** 3-0-3
 A survey of contemporary political issues arising both internationally and in the United States for honors students, taught in an enriched environment. Discussion will focus upon a number of controversial political topics currently being debated in the United States such as electoral reform, social and welfare issues, and the role of the U.S. in the world. The course will also examine global issues such as international trade and economics, human rights, and the moral responsibilities of nation-states.
- POLS 3100 Scope and Methods of Political Science** 3-0-3
 An introduction to the foundations of politics as a science by examining what political scientists (and other social scientists) do and study. The course examines the basic concepts and approaches to understanding the political world and all it embodies, from analyzing a public policy to examining electoral behavior. It is designed to: introduce students to political science research; prepare students to evaluate research critically; interpret social scientific research; and provide students with the requisite skills to initiate and conduct research. POLS 3100 is taught in an electronic classroom using appropriate software packages.
- POLS 3200 American State and Local Government and Politics** 3-0-3
 A study of American subnational governments and politics with special emphasis upon intergovernmental relations.
- POLS 3210 The American Legislative Process** 3-0-3
 A study of the legislative process in the United States, focusing primarily on Congress and the state legislatures. Course topics will include elections for legislative offices and the interaction between the legislature and the executive branch. The roles of parties and leaders in the legislative process will be examined.
- POLS 3220 The American Political Process: Campaigns, Elections and Voters** 3-0-3
 A general overview of the American political process. Special emphasis is placed on the role of money and the media in modern campaigns. The course examines the rise of “candidate-centered” elections. The study of the American voter focuses on the decline in voter turnout, the rise of the independent voter, and the influence of race on voting.
- POLS 3230 American Political Parties and Elections** 3-0-3
 A study of the development of American political party systems with special emphasis on contemporary electoral activities of political parties.
- POLS 3240 American Judicial Process and Behavior** 3-0-3
 A comprehensive examination of the workings of the American judiciary, its impact and compliance at both the state and the federal levels and the complex environment within which the courts function. Critical to the examination of both criminal and civil courts is the assumption that decisions made by judges play a powerful role in shaping public policy and that courts themselves are strongly influenced by other institutions and forces in the society.
- POLS 3250 Introduction to Law in Anglo-American Society** 3-0-3
 An examination of the historical roots of the Anglo-American legal system. The course also examines the relationship between law and society, law and values, and between wealth and the legal order.

- POLS 3260 Jurisprudence: Theories of Law and Legal Thought** 3-0-3
An examination of major legal schools of thought. The course looks at positive law, natural law, ideas of justice, and the concept of natural rights.
- POLS 3270 Public Opinion and Political Socialization** 3-0-3
An examination of the origins, content, and impact of public opinion. Special emphasis is placed on the advantages and limitations of public opinion polling. The course also examines the main agents of political socialization. Topics of particular interest include the role of the family in political learning, racial differences in political socialization, and the influence of television on the formation of pre-adult political opinions.
- POLS 3280 Women and Politics** 3-0-3
A review of the attitudes toward and participation by women in the political arena. The course focuses on the political factors that have encouraged or deterred women in politics in the American political system as well as in additional selected political systems.
- POLS 3290 The American Presidency** 3-0-3
The study of the role, powers, and responsibilities of the President of the United States within the constitutional system and the changing nature of the presidency.
- POLS 3300 Comparative Politics** 3-0-3
A study of key concepts and theories of comparative politics. Examines case studies from different types of political systems and regions of the world.
- POLS 3400 International Politics** 3-0-3
A study of key concepts and theories of international politics. Examines the evolution of the contemporary international system and conflict and cooperation among nation-states.
- POLS 3500 Western Political Theory I** 3-0-3
An examination of the teachings of the classical period of political theory from early Greeks through the political writings of Thomas Aquinas.
- POLS 3510 Western Political Theory II** 3-0-3
An examination of the normative teachings of modern political theory beginning with Machiavelli up to the writings of John Stuart Mill.
- POLS 3520 Modern Political Ideologies** 3-0-3
An exploration of the dominant political ideologies that shape decisions about and understanding of political events, including but not limited to capitalism, socialism, communism, patriarchy, feminism, environmentalism, liberation theology, liberalism, populism, and nationalism.
- POLS 3530 American Political Thought** 3-0-3
A study of the foundations of American political thought from the Puritan era to contemporary times.
- POLS 3600 Introduction to Public Administration** 3-0-3
A focus on the study of public administration processes and underlying theories within American government structures. Emphasis is on the pragmatic aspects of current government leadership and public agency management.

- POLS 3610 Public Administration and Public Policy Formation** 3-0-3
An examination of the basic problems involved in the development of public policy by government actors and institutions, with emphasis on public decision making, organizational theory, and political and administrative influences on the policy making process.
- POLS 4100 Political Science Research Paper** 3-0-3
Prerequisite: POLS 3100. The capstone course for political science majors. This course provides students with the tools to design a research project, and execute that project by gathering data, analyzing those data, and presenting their findings in a formal paper. POLS 4100 is taught in an electronic classroom using appropriate software packages. POLS 4900 may be taken as a substitute or in addition.
- POLS 4200 American Constitutional Law I** 3-0-3
A comprehensive study of constitutional law emphasizing leading constitutional cases with respect to separation of powers, federalism, rights and liberties, and the role of law enforcement in relation to civil and criminal law.
- POLS 4202 American Constitutional Law II** 3-0-3
A comprehensive study of constitutional law emphasizing leading decisions in civil liberties with special attention to the due process clauses, the first amendment, and the rights of the accused.
- POLS 4210 Separation of Powers in the American Political System** 3-0-3
An exploration of the political theory behind a separation of powers. Primary emphasis is placed on the relations between Congress and the President. Topics of particular interest include the origins and impact of divided government, the role of the Supreme Court in arbitrating disputes between the branches of government, and reform proposals to bridge the separation of powers.
- POLS 4220 Administrative Law and Government** 3-0-3
An overview of the administrative law process with the focus upon the formation and execution of public policy. Special emphasis is placed upon protecting the interests of all parties involved in the complex process of administrative law, policy formation and implementation.
- POLS 4230 Legal Research** 3-0-3
A concentration on developing the research skills necessary for a knowledge, appreciation, and ability to function effectively within the legal system.
- POLS 4240 Politics and the Supreme Court** 3-0-3
A review of landmark decisions of the Supreme Court. This course addresses issues related to the political climate surrounding such decisions. The political ramifications of Supreme Court cases are emphasized.
- POLS 4250 Trial Advocacy** 3-0-3
Also offered as LEAS 4250. An examination of all aspects of presenting a case in trial. Students develop effective methods for analyzing and preparing cases for presentation in trial. Students will learn and use basic technical skills necessary as members of the University's Mock Trial Team at tournaments sponsored by the American Mock Trial Association. May be repeated for credit up to 9 hours for political science majors, with no more than 3 credit hours applicable to the major.

- POLS 4260 Women, Minorities, and Law** 3-0-3
An exploration of the roles of women and ethnic and racial minorities in the American legal system. The course also examines the legal standing of women and minorities.
- POLS 4300 European Politics** 3-0-3
A study of the politics and government of Europe. The course focuses on key political institutions and issues in major European countries, and the impact of integration on the nation-state.
- POLS 4310 Politics in Russia** 3-0-3
A comprehensive study of the Russian political system with careful attention to the Soviet communist era. Major topics include the role of political parties, institutional changes, political culture, and leadership.
- POLS 4320 Latin American Politics** 3-0-3
A study of the politics and governments of the nation-states of Central and South America. The course focuses on key political institutions and issues in major Latin American countries.
- POLS 4330 African Politics** 3-0-3
A study of the domestic and international politics of Africa from the pre-colonial period to the present day.
- POLS 4340 Comparative Political Leadership** 3-0-3
An application of theories of political leadership in a comparative framework. There will be considerations of conditions leading to effective as well as to failed leadership. Course material will include case studies of individual leaders as well as of key leadership bodies.
- POLS 4350 Politics in Developing Nations** 3-0-3
The study of political institutions, processes and behavior within a comparative perspective.
- POLS 4360 Politics of Post-Communism** 3-0-3
An examination of the political dynamics of Eurasia. Comparisons of emergent political systems in East Central Europe, Russia, and the newly independent nations formed out of the old Soviet Union will constitute the central focus. A secondary emphasis will be study of the regional and international orientations of these nation-states.
- POLS 4370 Comparative Constitutional Law and Judicial Politics** 3-0-3
A cross-cultural examination of constitutional legal systems. The course focuses on such topics as institutions, legal professionals, judicial selection, judicial decision-making, and methodological issues involved in the cross-cultural study of legal processes and behavior.
- POLS 4400 International Organization and Law** 3-0-3
Readings, cases, lectures and research on the functioning of the legal structures in the international system with special emphasis on the relation between law and politics.
- POLS 4410 American Foreign Policy** 3-0-3
A study of the domestic and external pressures that guide American foreign policy planners. Specific policies toward Russia, West Europe, China, and Latin America will receive special attention.

- POLS 4420 Global Security Policy** 3-0-3
The study of the political efforts to deal with threats to world order arising from war, nuclear proliferation, international terrorism, the environment, the economy, and related factors.
- POLS 4430 National Security Administration and Policy** 3-0-3
An examination of the organizational dynamics, political features, and policy outcomes of the national security decision-making process. Special attention will be placed on the changing role of the National Security Council.
- POLS 4600 Government Organization and Administrative Theory** 3-0-3
A systematic analysis of theories of organization, management, and administration. Special consideration will be given to institutional, behavioral, and psychological factors.
- POLS 4610 Public Personnel Administration** 3-0-3
An examination of procedures and problems of governmental personnel administration. Studies of governmental agencies are encouraged to give students first-hand knowledge of governmental personnel administration.
- POLS 4620 Public Finance Administration** 3-0-3
A study of the activities involved in the collection, custody, and expenditure of public revenue, such as the assessment and collection of taxes, public borrowing and debt administration, the preparation and enactment of the budget, financial accountability and the audit.
- POLS 4630 Techniques and Processes of Public Management** 3-0-3
An exploration of public management within the structure and context of a democratic government. The course examines the strengths and weaknesses of public management processes such as the National Performance Review, traditional public management techniques, and applied theories to assess change in Georgia laws. It also addresses public management, leadership, decision-making, analytical models, budgeting, and selected public issues.
- POLS 4640 Urban Politics and Administration** 3-0-3
An analysis of the governmental function in urban areas. Emphasis is placed on the management role in a political context.
- POLS 4650 Intergovernmental Relations** 3-0-3
A study of federal, state, and local governmental interactions, with an emphasis on the implications of these interactions for public management.
- POLS 4660 State Executive Politics and Management** 3-0-3
An examination of governors and other state and local officials, including both elected and appointed executives. The interactions of these officials with the legislative and executive branches of government will be studied. The political nature of these interactions will receive emphasis, including the governor's partisan dealings with the state legislature.
- POLS 4670 Quality Management in Public Administration** 3-0-3
An examination of key current issues in public administration. The course explores the most current literature illuminating the issues facing public administrators in today's demanding environment.

- POLS 4700 Directed Study in Political Science** 3-0-3
 Directed readings in selected areas of political science with regular conferences between instructor and students.
- POLS 4820 Special Topics in U. S. Government and Politics** 3-0-3
- POLS 4830 Special Topics in Comparative Politics** 3-0-3
- POLS 4840 Special Topics in International Politics** 3-0-3
- POLS 4850 Special Topics in Political Theory** 3-0-3
- POLS 4860 Special Topics in Public Administration** 3-0-3
- POLS 4900 Internship in Political Science** 3-0-3 to 9-0-9
 Supervised study in a structured governmental or political environment. Open to any student, regardless of major, meeting stated requirements in any of the available Internship Programs: Governor's, Georgia Legislative, U.S. Senate, U. S. House of Representatives, etc. The number of credit hours granted is dependent upon the particular program, academic work, requirements, and nature of participation. May be substituted for POLS 4100 as the capstone course for political science majors.

PSYC: PSYCHOLOGY, COUNSELING AND GUIDANCE

- PSYC 2500 Fundamentals of Psychology** 3-0-3
 A general survey course designed to introduce the student to fundamental methods and content of contemporary psychology. PSYC 2500 is required of all psychology majors.
- PSYC 2500H Honors Fundamentals of Psychology** 3-0-3
 A general survey course designed to introduce the student to the fundamental methods and content of contemporary psychology. PSYC 2500H substitutes for PSYC 2500.
- PSYC 2700 Human Growth and Development** 3-0-3
 The study of human growth and development across the lifespan, with emphasis on normal growth and milestones achieved in the physical, cognitive, social, and emotional systems. Educational, personal, and familial contexts that influence life satisfaction, mental and physical health are highlighted.
- PSYC 3000 Psychology as a Career** 1-0-1
Prerequisite: PSYC 2500. Open to all students considering psychology as a major and career. An exploration of psychology as a major and a career.
- PSYC 3110 Educational Psychology** 3-0-3
Prerequisite: CIED 2000 or HSPE 2100, PSYC 2700 and acceptance to Teacher Education or approval of instructor. Application of psychological principles, theories, and methodologies to issues of teaching and learning in schools. (Successful completion of 20 hours of field experience is required.)
- PSYC 3120 Psychoeducational Aspects of Early Childhood** 3-0-3
Prerequisite: CIED 2000 or HSPE 2100, PSYC 2700 and acceptance to Teacher Education or approval of instructor. Application of psychological principles, theories, and methodologies to issues of physical, cognitive, affective, and social development of the young child in school settings, especially ages three through eight. (Successful completion of 20 hours of field experience required).

- PSYC 3130 Educational Psychology for Teachers of Adults** 3-0-3
Prerequisite: Acceptance to the TTIE degree program in the College of Education or approval of instructor. Application of psychological principles, theories, and methodologies to issues of teaching and learning for adults. This course does not substitute for PSYC 3110 or PSYC 3120 in meeting teacher education degree requirements.
- PSYC 3200 Child Psychology** 3-0-3
Prerequisite: PSYC 2500. A clinical-research approach to understanding the psychological and developmental problems which emerge in the period from conception through adolescence. From a topical perspective, there is focus on pathological conditions which contribute to adjustment, learning and health problems.
- PSYC 3210 Adolescent and Young Adult Psychology** 3-0-3
Prerequisite: PSYC 2500. The course focuses on normative development from pubescence through young adulthood. Emphasis is placed on theory, research, and implications of achievements of this period, such as establishment of identity and independence, and how family, peers, schools, media and community may impact development. Topics include the implications of risk factors to developmental outcomes of individuals of these ages.
- PSYC 3220 Adult Psychology and Gerontology** 3-0-3
Prerequisite: PSYC 2500. The course focuses on development from early adulthood through late old age for changes in biological, cognitive, social, and personality domains. Emphasis is placed on normative aging processes and issues in successful aging. Topics include issues in marriage, career, parenting, retirement, physical and mental health, and transitioning into new roles.
- PSYC 3300 Applied Behavior Analysis I** 3-0-3
Prerequisite: PSYC 2500. Concepts and methods of behavior analysis and social learning. Emphasis is on the procedures associated with respondent and operant conditioning. A field-based behavior modification experiment is required of all students.
- PSYC 3400 Abnormal Psychology** 3-0-3
Prerequisite: PSYC 2500. The nature and etiology of the various forms of behavior disorder, mental deficiency, and other deviations.
- PSYC 3450 Theories of Personality** 3-0-3
Prerequisite: PSYC 2500. Introduction to the nature, study, and conceptualization of personality. Historical and contemporary theoretical perspectives of personality will be critically examined, and applications will be discussed.
- PSYC 3500 Statistical Methods in Psychology** 3-0-3
Prerequisite: PSYC 2500. Univariate and bivariate statistical methods for research in the behavioral sciences.
- PSYC 3600 Experimental Psychology** 3-0-3
Prerequisite: PSYC 3500 with grade of "C" or better. An introduction to scientific/experimental research methods used in the study of behavior.

- PSYC 3700 Rehabilitation Psychology** 3-0-3
Prerequisite: PSYC 2500. The course focuses on biological, personality, cognitive, and social effects of disabilities on adult development. Emphasis is placed on sensory and motor disabilities and the roles played by vocational rehabilitation programs, independent living initiatives, and the community integration movement on rehabilitation. Implications of theory, research, and program implementation on rehabilitation outcomes will be made.
- PSYC 3710 Social Psychology** 3-0-3
Prerequisite: PSYC 2500. The study of how one's thoughts, feelings, and behaviors are influenced by others. Theoretical and practical applications are discussed.
- PSYC 3800 Industrial/Organizational Psychology** 3-0-3
Prerequisite: PSYC 2500. Theory and application of psychological principles to industrial and organizational settings.
- PSYC 3900 Tests and Measurements** 3-0-3
Prerequisite: PSYC 3500. Principles, techniques, and theory underlying construction and use of tests for educational and psychological measurement.
- PSYC 4000 Cognitive Psychology** 3-0-3
Prerequisite: PSYC 3600. A survey of the cognitive processes, including topics on attention, memory, language, imagery, problem solving, intelligence, and neurocognition. Data collection required.
- PSYC 4050 Psychology of Learning** 3-0-3
Prerequisite: PSYC 3600 with grade of "C" or better. An introduction to the basic principles of human and animal learning, memory, and problem solving.
- PSYC 4100 Physiological Psychology** 3-0-3
Prerequisite: PSYC 3600. An introduction to the structure and function of the human nervous system and its relation to behavior.
- PSYC 4150 Sensation and Perception** 3-0-3
Prerequisite: PSYC 3600. An overview of the physiology of the senses and how sensory information is integrated so perception can occur. Laboratory experiments included.
- PSYC 4300 Behavior Analysis II** 3-0-3
Prerequisite: PSYC 3300 and PSYC 3600. The concepts, methods, and procedures of behavior analysis are examined in terms of how they are used in typical populations and problems in clinical, educational, home, business/industrial and other settings. A field placement behavior modification intervention is required of all students.
- PSYC 4500 Special Topics in Psychology** 1-0-1 to 3-0-3
Prerequisite: PSYC 2500 and approval of instructor. Issues of topical importance in psychology are explored. May be repeated for a maximum of 6 hours credit.
- PSYC 4800 Introduction to Clinical Practices** 3-0-3
Prerequisite: Senior Standing, PSYC 3400, and PSYC 3900. An overview of the clinical activities involved in the provision of mental health services. Diagnostic and therapeutic practices are presented along with current clinical issues.