General introduction to astronomy, with emphasis on our solar system and other planetary systems. Topics (chosen by instructor) may include historical astronomy, the sun, the surfaces, interiors, and atmospheres of the planets, comets, asteroids and meteor impacts, planets around other stars, and the origin of life. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100D. 4 lec.

Prereq: no credit if 101. Designed for non-science majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec. 2 lab.

Prereq: no credit if 105L. Designed for non-science majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec. 2 lab.

Prereq: no credit if 105. Designed for non-science majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec. 2 lab.

Introduction to International (Metric) System and reasoning for SI; SI and its rules for use; metric computation and conversion techniques. Not offered on Athens campus.

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations in stellar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as ASTR 140. 2 lab.

Prereq: 4 hrs PSC or GEOL or perm; Math 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

Prereq: 4 hrs PSC; MATH 113 or equiv; no credit for both ASTR 205 and PSC 205. An exploration of ideas relating to the possibility that life exists elsewhere in the universe, both on planets and moons within our solar system, and within other planetary systems. The course begins by considering our planet's formation and the conditions which may have led to life appearing here, then moves outward.

Prereq: phys major or perm. Provides overviews of classical mechanics, relativity, and contemporary physics. Films and current science news will be used to search for student interest in future study.

Prereq: no credit if 101L. Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec. 2 lab.

Prereq: 3 lec, 2 lab, 1 recit.

Prereq: no credit if 105. Designed for non-science majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec. 2 lab.

Prereq: 251 or 262. Continuation of 250. Many-body systems, rigid body dynamics, Lagrangian methods, and small oscillations.

Prereq: 253. Quantum effects, nuclear and particle physics, statistical physics, molecular and solid state physics; astrophysics, general relativity, and cosmology.

Prereq: 254 or 352. Fundamental experiments on electron properties including charge and mass, wave properties, atomic binding, spin, and conduction. 4 lab.

Prereq: 254 or 352. (spring) Experiments in optics, lasers, X-rays and spectroscopy. 4 lab.

Prereq: 254 or 352. (spring) Nuclear decay modes and α, β, γ-decay spectroscopy. Nuclear reactions and scattering. Principles of operation of α, β, γ and neutron detectors and data acquisition systems. 4 lab.

Prereq: Honors Tutorial College students only. (fall) 2nd-year tutorial studies in physics.

Prereq: Honors Tutorial College students only. (winter) 2nd-year tutorial studies in physics.

Prereq: Honors Tutorial College students only. (spring) 2nd-year tutorial studies in physics.

Prereq: 253, MATH 340. (fall) 1st and 2nd laws of thermodynamics, phase changes and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec, 1 rec.

Prereq: 411. (winter) Kinetic theory, transport phenomena of gases, and introduction to classical and quantum statistics. 3 lec, 1 rec.


Prereq: 312, MATH 340, or perm. (spring, odd yrs) Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec.

Prereq: 253, MATH 441, or perm. Reflection, refraction, diffraction, lenses, polarization, birefringence, interference, coherence, and selected introductory topics in modern optics. 4 lec.

Electromagnetism and Relativity (3) 429
Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves; special relativity and Lorentz transformation. 3 lec.

Electronics Laboratory (3) 431
Prereq: perm. Experiments in electronic measurement techniques from simple A.C. and digital circuits to microprocessors and analyzers. 6 lab.

Quantum Mechanics (4) 451
Prereq: 254, MATH 441 or perm. Classical background, early work, some observables and Hermitian operators, representations, symmetry and conservation laws, One-dimensional Schrodinger equation solutions in the position and momentum representation. Some problems in two dimensions. Philosophical issues and quantum paradoxes. 4 lec.

Nuclear and Particle Physics (4) 453

Special Problems (1–4) 470
Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

Solid State Physics (4) 471
Prereq: (254 or 352) and 412. (spring, even yrs) Fundamental properties of solid state of matter. 3 lec, 1 rec.

Advanced Laboratory (1 hr per sec, max 3) 475
Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each qtr.

Electronic Device Physics (4) 477

Honors Thesis (1–6) 490H
Prereq: Departmental honors candidates only; perm of director of honors studies. Supervised research work in physics, astronomy, or engineering physics, intended for submission for undergraduate honors.

Undergraduate Seminar (1) 493
Prereq: jr. Important areas of current interest in field of physics, history of physics, development of ideas in physics, and other aspects of physics.

Physics Tutorial (1–15) 497T
Prereq: Honors Tutorial College students only. (fall) 3rd- and 4th yr tutorial studies in physics.

Physics Tutorial (1–15) 498T
Prereq: Honors Tutorial College students only. (winter) 3rd- and 4th yr tutorial studies in physics.

Physics Tutorial (1–15) 499T
Prereq: Honors Tutorial College students only. (spring) 3rd- and 4th yr tutorial studies in physics.

Writing on Political Science Topics (4) 305J
Prereq: jr. majors only. Writing course for political science majors. Focus is on studying and producing clear and persuasive writing about political issues.

Political Communication (POCO) 201
Introduction to Political Communication (25)
Overview of the realm of political communication, the interactions among political figures, political interests, the press, and the public. Against the background of the American political process, an investigation of those involved in that process, their relationships, and the role of mass and interpersonnel communication in these relationships.

Seminar in Political Communication (5)
Prereq: 201 and completion of a min. of four courses from the program, and perm. A senior-level research course investigating selected aspects of political communication.

Political Science (POLS) 101
American National Government (4)
Constitutional basis and development, political processes, institutions, and organization of American national government.

Issues in American Politics (4) 102
Concerned with administration and policy, making processes of national government in selected areas, e.g., welfare, civil rights, defense, etc.

The United States in World Affairs (4)
Introducing major foreign policy processes confronting successive U.S. administrations in world affairs.

Current World Problems (4) 150
Examines a number of the major political crises, problems, and issues confronting the contemporary world.

Principles of Public Administration (4) 210
Introduction to role and operation of public agencies in American society. Examines organization of federal, state, and local bureaucratic systems, their interrelations, and their basic principle functions, and tasks.

Comparative Politics (4) 230
Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

International Relations (4) 250
Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

Political Theory (4) 270
Introduction to study of political theory: examination of selected political issues and theorists from philosophical perspective. Emphasis on developing one's own political values and theories.

The Politics of Law (5) 301
Prereq: 101. Introduces the study of law as a political process with special emphasis on courts, legal ideologies, violence, and the mobilization of rights claims in social and political conflict.

State Politics (4) 304
Prereq: 101, 102. Comparative analysis of state political systems. Emphasis on structure and process of making states within federal context.

Writing on Political Science Topics (4) 305J
Prereq: jr. majors only. Writing course for political science majors. Focus is on studying and producing clear and persuasive writing about political issues.

Politics of Appalachia (5) 306
Prereq: 101 or perm. Introduction to Appalachia, its political patterns, and political problems such as politics of poverty and powerlessness. Includes examination of responses to these problems by various levels of government—national, regional, state, and local.

American Domestic Policy (4) 310
Prereq: 101, 102, or perm. Major issues in American domestic policy will be discussed. An analysis of these policies from a free market as well as a Marxist perspective will be provided.

Gay and Lesbian Politics (4) 319
Prereq: soph. Exploration of emergence and ramifications of gay political activism in Western culture. Homosexuality is examined from vantage points of religion, psychology, law, and politics.

Urban Politics (4) 320
Prereq: 101, 102, or perm. Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

Black Politics in the United States (4) 323
Prereq: 101 and 102 or perm. Appraisal of economic and institutional structure of American society through social doctrines, enunciated by black political theorists, that serve as inspiration and ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

Politics in Western Europe (4) 331
Government and politics in several West European nations.

Politics in Russia and Former Soviet Union (4) 333
Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

The Politics of Developing Areas (4) 340
Major theories and problems of political, sociocultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on how political methodologies and theories, the press, and the public. Against ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

East Asia in World Politics (4) 342
Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

The Politics of Developing Areas (4) 340
Major theories and problems of political, sociocultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on how political methodologies and theories, the press, and the public. Against ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

American Domestic Policy (4) 310

Plato, Aristotle, and Pre-Modern Political Thought (4) 371
Prereq: not open to fr. Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, Augustine, St. Aquinas and on developing one's own political values and theories.

Modern Political Thought (4) 372
Prereq: not open to fr. Basic philosophic conceptions of modern nation state. Utilizing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Emphasis on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.
Courses / Political Science

373 Contemporary Political Thought (4)
Prereq: not open to fr. 19th- and 20th-century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, M. Friedman, and M. Harrington.

374 Great Jurists (4)
Prereq: not open to fr. Analysis of life, legal writings, and thought of prominent jurists such as Taney, Frankfurter, Harlan, Marshall, Douglas, and Learned Hand.

390 Political Workshop (10–15)
Prereq: 101 and perm. (Fall, even years) Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

401 American Constitutional Law (4)
Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on judicial review, economic, race, and gender.

402 American Constitutional Law (4)
Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on abortion, censorship, and surveillance.

404 Civil Liberties (4)
Prereq: 270 and 401 or 402. Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

405 American Political Parties (4)
Prereq: 11 hrs POLS. Origin, growth, organization, and methods of parties; suffixage, nominations, and elections; role of parties in democracy.

406 Elections and Campaigns (4)
Prereq: 101. Examines nature of voter and rationality of voter decisions; impact of campaigns and their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

407 Politics of Urban Development (4)
Prereq: 320. Focuses on the causes and consequences of economic development politics and policies in urban America and the multiple facets of urban development.

408 Urban Public Administration (4)
Prereq: 320 or perm. Examines administration of urban programs. Focuses on agency-client relationships, professionalism, and public delivery.

409 Criminal Procedure (5)
Prereq: 11 hrs POLS or history. Role, function, and problems of American judicial, prosecutorial, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technologically advanced.

410 Public Policy Analysis (4)
Prereq: 101 or 320. An in-depth study of political behavior and politics in the U.S. as a whole. Course provides an in-depth study of political behavior and politics in the U.S. as a whole.

411 Administrative Law (4)
Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies; analysis of administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions. No credit if BUSL 475.

412 Public Personnel Administration (4)
Prereq: 11 hrs or senior. Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

413 Administrative Law (4)
Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies; analysis of administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions. No credit if BUSL 475.

414 Organizational Theory and Politics (4)
Prereq: 210. Examination of public organizations. Presents major theories of organizations in public administration.

415 The American Presidency (4)
Prereq: 11 hrs POLS. Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationships of person and office.

416 Legislative Processes (5)
Prereq: 11 hrs POLS. Explores legislative process and policy, primarily at national level. Examines influence of interest groups, constituencies, political parties, executive branch, and organizational structure of Congress on legislative outcomes.

418 Interest Groups in American Politics (4)
Prereq: 11 hrs POLS. Organization and tactics of pressure groups and their impact on policy-making process.

420 Women, Law, and Politics (4)
Prereq: jr or perm. Focuses on political and legal position of women in U.S. Covers women’s legal status, feminist movement, current issues, and public policy responses concerning women’s position such as Equal Rights Amendment, marriage and divorce laws, affirmative action, abortion, and pay equity.

421 The Politics of Law and Sexuality
An exploration of the regulation of sexuality in the U.S. from legal and theoretical perspectives. Cases and other materials will address a variety of issues including the right to privacy, pornography, the right to marry, and gays in the military.

422 Political Elites and Leaders
Exploration of the phenomenon of elites and leadership in global perspective, including contemporary Asia, Africa, and Latin America.

425 Environmental and Natural Resource Politics and Policy (4)
Examines the institutional context and political dynamics of environmental and natural resource policy making in the United States. Topics include history of the U.S. environmental movement, major players and arenas of influence in environmental politics, and current policy issues including public lands, endangered species, solid and hazardous waste, and air pollution.

426 Politics of Contemporary Environmental Movement (4)
Examines the major segments of contemporary U.S. environmental movement. Topics include the professionalization, activities, strategies, and criticisms of the mainstream environmental groups; radical environmentalism; grassroots environmentalism and gender; environmental justice and race.

427 Formulation of American Foreign Policy (4)
Prereq: 103 or 354 or perm. Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in U.S.

429 Comparative Public Administration (4)
Prereq: 210 or 230 or perm. Examines and compares characteristics of public administrative systems in various national political settings.

432 Policy Making in Russia (4)
Prereq: 11 hrs POLS, including 333 or course in Soviet history or perm. Examination of how Russian leadership deals with number of major domestic problems.

433 Russian Foreign Policy (4)
Prereq: 11 hrs POLS, including 333 or perm. Analysis of foreign policies of the former U.S.S.R. Historical, ideological, strategic, and other influences covered.

434 Government and Politics of Latin America (4)
Prereq: jr or sr. Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

435 Revolution in Latin America (4)
Prereq: jr or sr. Revolution as theoretical concept and as practical reality in several Latin American countries. Special emphasis on Cuban and Nicaraguan revolutions.

438 Government and Politics of Germany (4)
Prereq: 11 hrs POLS or perm. Major political processes, personalities, ideas, and institutions of contemporary West Germany, including key foreign policy issues.

439 Politics in France (4)
Prereq: 11 hrs POLS or perm. Major political processes, personalities, ideas, and institutions of modern France.

441 African Politics (4)
Prereq: 8 hrs POLS or history. Development and structure of modern African states with emphasis on political processes in tropical Africa.

442 Middle East Politics (4)
Prereq: 12 hrs POLS including 230. Examination of the major issues and dilemmas in contemporary Middle Eastern politics including the clash of religions and nationalism, security and stability in the Persian Gulf, the Arab-Israeli conflict, efforts at democratization, and the status of women.

445 Government and Politics of Japan (4)
Prereq: 11 hrs POLS or Asian history. Political institutions and processes of Japan with emphasis on developments since 1945.

446 Government and Politics of China (4)
Prereq: 11 hrs POLS or Asian history. Political institutions and processes and major political developments in modern China.

447A Government and Politics of Southeast Asia (4)
Prereq: 11 hrs POLS or history. Introduction to the political institutions and processes of contemporary Southeast Asia.

447B Government and Politics of Southeast Asia (4)
Prereq: 11 hrs POLS or history. Continuation of 447A but can be taken independently. More in-depth study of politics in selected countries of Southeast Asia.

450H Honors in Political Science (5, max 20)
Prereq: acceptance in departmental honors program. Seminar on selected topics in political science and preparation and research for writing an honors thesis.

452 Advanced International Relations (4)
Prereq: 250 or perm. In-depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

455 International Law (4)
Prereq: 250 or perm. Role of international law in interstate relations and international organization.

456 International Organizations (4)
Prereq: 250. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.
Courses / Political Science

457 National Security in the Post-Cold War World (4)
Prereq: 12 hrs POLS including 250. Introduction to the concepts and problems of attaining international security in an ever-changing world. Overview of the traditional and new sources of state insecurity and consequences of the quest by nations to attain security in the international system.

459 Arms Control and Disarmament (4)
Prereq: 11 hrs POLS or perm. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence; history of disarmament negotiations since WWII; arms control agreements; and case studies in current U.S.-Russian arms control negotiations.

463 The United States and Africa (5)
Prereq: 103 or 250 or 354. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

464 Africa and the OAU (3)
Coreq: POLS 464W. Examination of the relationship between African states and the Organization of African Unity. Includes foreign policies of selected African states and consideration of current issues in Africa. Includes partici-pation in the annual Inter-University Simulation of the OAU.

464W Simulation Portion of POLS 464 (2)
Coreq: POLS 464. Simulation of the OAU.

468 Nonprofit Fundraising (4)
Prereq: jr. An introduction to the tradition of philanthropy and fundraising in the United States. Examines practical, moral, and legal issues involved in fundraising and the fundraising profession. Provides students with an opportunity to apply fundraising techniques and practices to enhance the financial commitment of individual corporations, foundations, and government to "real-life" development projects.

475 Studies in Political Thought (5)
Prereq: 1 course in political thought or perm. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

476A American Political Thought (4)
Prereq: 11 hrs POLS or history. Origin and development of political ideas from colonial period through to slave controversy.

476B American Political Thought (4)
Prereq: 11 hrs POLS or history. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

477 Legal Theory and Social Problems (4)
Prereq: 12 hrs POLS or perm. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and administrative agencies in shaping legal solutions to contemporary social problems. Emphasis on developing one's own political, legal, and philosophical values.

478 Feminist Political Theories and Movements (5)
Prereq: jr or perm. Explores issues of power, powerlessness, oppression, and transcending oppression. Views feminism as human rights movement. Topics: origins and history of sexism and feminism, classic treaties of feminist political theory, contemporary theories from conservative to anarchistic, visions of post-sexist futures, movement strategies and tactics, practical applications.

479 Latin American Political Thought (4)
Prereq: 11 hrs POLS. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th-century movements such as Democratic Left, Progressive Catholic Left, and Marxist Revolutionary Left.

481 Modern Political Analysis (4)
Prereq: 20 hrs POLS or perm. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theoretical approaches developed in political science recently.

482 Quantitative Political Analysis (5)
Prereq: 481 or perm. Designed to show relevance of scientific research techniques to study of politics.

483 Statistical Package for the Social Sciences (4)
Prereq: PSY 121 or POLS 482 or equiv. Designed to introduce social science students, with some statistical background, to the use of the microcomputer for data analysis. Although the focus is the structure and syntax of SPSS/PC, fundamental data analysis problems will be discussed in the context of computer applications.

484 Management Skills for Public Administration (5)
Prereq: Jr. Practicum designed to introduce students to several management skills needed for success in public administration and to permit them to apply these skills in a classroom setting.

486 Public Budgeting (4)
Prereq: 210 or 411 or perm. Examines politics, techniques, and consequences of public budgeting processes at federal, state, and local levels.

487 Financial Management in Government (4)
Prereq: 210, 411 or equiv or perm. Examines financial aspects of state and local governments. Financial conditions of these governments discussed in conjunction with various actions governments take to deal with them.

488 Public Dispute Resolution (4)
Prereq: jr. Examines the field of alternative dispute resolution. Focus is on the dynamics and management of such public issues as facility siting, natural resource use, and community funding. Topics include conflict assessment, negotiation, mediation, and the politics of alternative dispute resolution.

489 Nonprofit Management (4)
An introduction to the nonprofit sector and its role in society, the economy, and the delivery of human services. Includes an overview of principle management functions as each applies to nonprofit organizations.

490 Studies in Political Science (3–5)
Prereq: 11 hrs POLS or perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

492A–E Research in Political Science (1–5)
Prereq: jr. An introduction to the tradition of research in political science recently. Topics: origins and history of sexism and feminism, classic treaties of feminist political theory, contemporary theories from conservative to anarchistic, visions of post-sexist futures, movement strategies and tactics, practical applications.

Professional Communication (PRCM)

150 Business Communication Basics (4)
Prereq: BA 100A. Introduces the basic business communication principles and practices and sets the communication standards in preparation for real world workplace experiences. Business-realated cases are utilized for research, writing, and speaking activities. Some attention is given to early preparation for internship research.

325J Professional Communication (4) (13)
Prereq: jr or sr, Tier I English. Provides opportunities to practice and improve written and spoken communication skills, both individual and collaborative, which are appropriate for career success. Utilizes strategic managerial communication skills in analyzing business problems or situations and choosing the appropriate communication processes, products, or events to meet organizational needs.

Psychology (PSY)

101 General Psychology (5) (25)
Introduction to psychology. Survey of topics in experimental and clinical psychology including physiological bases of behavior, sensation, perception, learning, memory, human development, social processes, personality, and abnormal behavior.

120 Elementary Statistical Reasoning (4) (1M)
Prereq: Math placement level 1 or higher or MATH 101 or 102. Introduction to research methodology and descriptive and inferential statistics, emphasizing the development of practical reasoning skills necessary for the comprehension and critical evaluation of statistical information typically encountered in everyday life. No credit for both 120 and any of the following: MATH 250, MATH 250B, MATH 251, PSY 121. No credit if already credit for PSY 221 or QBA 201; no credit toward psychology major.

190 Workshops in Applied Psychology (1–2, max 5)
Workshops on specific topics in applied psychology, offered yearly, carrying predetermined alphabetical designations (e.g., 190A). Students seeking academic credit must complete satisfactorily written project determined by instructor. Graded credit/no credit.

201 Sensation and Perception (4)
Prereq: 101. Sensory and perceptual processes in vision, audition, somesthesia, gustation, olfaction, and kinestheisis. Theory and research on perceptual phenomena with an emphasis on visual and auditory modalities, including perception of objects, space, and events; effects of person variables on perception, perceptual development.

203 Learning (4)
Prereq: 101 and 220 or 221. Experimental investigation of classical and operant conditioning, discrimination learning, generalization, related phenomena.

221 Statistics for the Behavioral Sciences (5) (1M)
Prereq: Math placement level 2 or higher or MATH 113. Introduction to descriptive and inferential statistics with emphasis on inferential statistics. No credit for both 221 and any of the following: MATH 251, PSY 121, QBA 201.

226 Research Methods in Psychology (4)
Prereq: 101 and 221. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments.

233 Psychology of Personality (4)
Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change.

261 Survey of Industrial and Organizational Psychology (4)
Prereq: 101 and 220 or 221 or QBA 201. Survey of industrial and organizational psychology; emphasis on application of psychological theories and research to organizational situation.
273 Child and Adolescent Psychology (4)
Prereq: 101. Behavior from infancy through adolescence. No credit awarded if HCCF 160 or EDEL 200 has been taken. Will not count toward core or major.

275 Educational Psychology (4)
Prereq: 101. Applications of psychological theories and models to educational settings (emphasis on schools). Major topics include goals of education, cognitive, social, and affective development in children; cognitive and behavioral models of learning; motivation; individual differences; effects of social class, ethnicity, gender, and cultural deprivation on learning and development; tests and evaluation. Emphasis is on role of teachers and parents as facilitators of learning and development. No credit awarded if EDIC 275 has been taken.

304 Human Learning and Cognitive Processes (4)
Prereq: 12 hrs PSY including 101 and 221. Theoretical and experimental investigations of learning in human beings: concept learning, problem solving, memory, motor skills, and language.

305 Human Memory (4)
Prereq: 12 hrs PSY including 101 and 226. Structure and processes of human memory, including historical models of memory, contemporary theories of memory, techniques used in memory experimentation, memory stores, memory codes, mnemonic devices, memory failures, neurological basis of memory and memory failures, and computer models of memory.

307 Psycholinguistics (4)
Prereq: 9 hrs PSY including 101 or perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

308 Human Judgment and Decision Making (4)
Prereq: 226. Descriptive and prescriptive models of human judgment and decision making. Topics include how people understand uncertainty, and how they learn the relationships that enable them to make predictions, make decisions when the outcomes of these decisions are uncertain, and perceive risks. No credit awarded if MGT 430 has been taken.

310 Motivation (4)
Prereq: 12 hrs PSY including 101. Survey of theories of motivation, with emphasis on human motivation.

312 Physiological Psychology (4)

314 Comparative Psychology (5)
Prereq: 9 hrs PSY including 101. Behavior of animals across phylogenetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

315 Behavior Genetics and Individual Differences (5)
Prereq: 9 hrs PSY including 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infants, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

321 Advanced Statistics for the Behavioral Sciences (5)
Prereq: 101 and 221 (226 recommended). Continuation of 221 statistical techniques through multifactor analysis of variance and multiple regression analyses. Integration of experimental design with statistical analysis. Does not apply to Arts and Sciences social science or natural sciences requirement.

327 Human Psychophysiology (4)
Prereq: 101 and 120 or 221. Relationships between psychological variables and physiological events in humans. Measures of cardiovascular, electrodermal, muscle, respiratory, and central nervous system activity; recording techniques; research findings; and applications such as biofeedback and lie detection.

332 Abnormal Psychology (4)
Prereq: 9 hrs PSY including 101. Behavior disorders, their cause and effects on person, family, and society.

335 Environmental Psychology (5)
Prereq: 9 hrs PSY including 101. Natural and built environments as factors of human behavior, cognition, and choice. Research concerning environmental design and evaluation from psychological standpoint emphasized.

336 Social Psychology (4)
Prereq: 101 and 120 or 221. Theory and research on the ways that people think about, influence, and relate to one another. Specific topics include attitudes and behavior, social perception and cognition, conformity, persuasion, group influence, aggression, attraction, and helping behavior.

337 Social Psychology of Justice (4)
Prereq: 9 hrs PSY including 101 (336 recommended). Theory and research on the interface of psychology and the legal system (with an emphasis on social psychology). Specific topics include dilemmas faced by psychologists in the legal system; legality vs. morality; the socialization, training, and ethics of lawyers and police; perception memory and error in eyewitness testimony; hypnosis; lie detection and confessions; rights of victims and accused; rape and rapists; arrest and trial; jury selection; jury dynamics and deliberations; insanity and the prediction of dangerousness; sentencing; death penalty; rights of special groups; theories of crime.

341 Tests and Measurements (4)
Prereq: 12 hrs PSY including 101 and 221. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria including reliability, homogeneity, and validity.

351 Introduction to Clinical and Counseling Psychology (4)
Prereq: 12 hrs PSY including 233 or 332. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interpersonal relationships.

361 Advanced Organizational Psychology (4)
Prereq: 261. Study of behavior in organizations with emphasis on applying psychological research and principles to understanding structure and process of (primarily work) organizations.

362 Personnel Psychology (4)
Prereq: 261. In-depth coverage of topics in personnel psychology including job analysis, organizational entry, and training and evaluation of personnel.

374 Psychology of Adulthood and Aging (4)
Prereq: 9 hrs PSY including 101 (273 recommended). Behavioral change and continuity over adult years through old age. Emphasis on interaction of psychological, sociocultural, and biological variables as they contribute to behaviors of aging individual from perspective of developmental framework.

376 Psychological Disorders of Childhood (4)

378 Psychology of Gender (4)
Prereq: 9 hrs PSY including 101. Sex differences in physical characteristics, abilities, personality, and social behavior; development of sex roles; sex roles across the life span; relationships of sex, gender, and sex roles to interpersonal functioning, work and psychological disorders.

380 Psychology of Health and Illness (4)
Prereq: 12 hrs PSY including 101. Theory and research on the psychological aspects of physical health and illness; interrelationships of behavior, emotion, stress, lifestyle, and illness; psychological factors associated with such hypertension, coronary artery disease, headache, asthma, and immune disorders; applications and effectiveness of psychological interventions.

390 Research in Psychology (1–5, max 15)
Prereq: 226 and written perm. Supervised independent research on predefined problem. Graded credit/no credit.

418 History and Systems of Psychology (4)
Prereq: 20 hrs PSY. Comparative, historical review of major conceptual orientations in psychology within last century. Includes analysis of important philosophy of science issues bearing on psychology, such as nature of theory, observation, explanation, and some specialized topics especially pertinent to psychology.

430 Psychoactive Drugs: Therapeutic and Abused Drugs (4)
Prereqs: 312 or 332 or 376 or BIOS 171. Patterns of use and abuse of psychoactive agents; behavioral and physiological effects of drugs; etiological factors in drug abuse; treatment of drug abuse; use of drugs in the treatment of mental disorders; comparative effectiveness and integration of pharmacological and psychological interventions; research methods and problems in conducting research.

470 Prenatal Influences on Developmental Malformations (4)
Prereq: PSY 273 or EDEL 200 or HCCF 160; and PSY 312 or 1 biology course. Prenatal and perinatal influences on development, including the effects of genetic errors, drugs, nutrition, diseases, maternal behaviors, prematurity, and birthing techniques.

489 Fieldwork in Psychology (1–5, max 5)
Prereq: written perm. Independent fieldwork as volunteer or employee in work directly related to psychology. Arrangements for course credit must be approved by psychology faculty member before fieldwork begins. Course assigned a chair for under-grad affairs or other faculty member to complete necessary forms. Graded credit/no credit.

490 Seminars in Psychology (5)
Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology offered yearly, carrying predetermined alphabetical designations (e.g., 490A). See Schedule of Classes for topics each qtr.

491 Special Problems in Psychology (1–15)
Prereq: written perm. Independent work on special problem with any psychology professor.

492X Special Problems—Psychology (1–15)
Prereq: Study Abroad Program. perm.

496H Psychology Honors Seminar (3–5)
Prereq: perm. Admission to departmental honors program. Seminar on specific topics. See Schedule of Classes each qtr.

497H Readings in Honors Work (1–4, max 10)
Prereq: perm.

498H Honors Work in Psychology (1–4, max 10)
Prereq: perm. Preparation for 499H.

499H Honors Work in Psychology (Thesis) (3–7, max 15)
Prereq: perm.
Quantitative Business Analysis (QBA)

201 Introduction to Business Statistics (4)
Prereq: MATH 163A or 263A, MATH 250. Sampling plans, sampling distribution, decision analysis, estimation and hypothesis testing (one and two population tests), simple linear regression and analysis, nonparametric statistical tests.

491 Seminar (4)
Prereq: perm. Selected topics of current interest in quantitative business analysis area.

497 Independent Research (1–4)
Prereq: perm. Research in selected fields of quantitative business analysis under direction of faculty member.

498 Internship (1–4)
Prereq: perm.

Real Estate Technology (REAL)

Real estate courses are available on the Athens campus through Lifelong Learning Programs and at the regional campuses through Continuing Education offices.

101 Real Estate Principles and Practices I (4)
Real property is basic resource with which real estate professionals work. Course includes, but is not limited to, land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds, leases, financing and mortgages, tax, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

102 Real Estate Brokerage (4)
Prereq: 101 or perm. Expands on 101 and includes specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

103 Real Estate Law (4)
Prereq: 101 or perm. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and sales personnel, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

201 Real Estate Appraising I (4)
Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from 3 approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report.

204 Real Estate Finance (4)
Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate—Special Topics (4)
Prereq: 204. Special topics in real estate covered. Areas include professionalism; ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

Recreation and Sport Sciences

Athletic Training (RSAT)

128 Introduction to Athletic Training (2)
Introduction to prevention and care of athletic injuries. No credit if RSAT 129 or 140. 2 lec.

140 Principles of Athletic Training (3)
Prereq: pre-athletic training major. (Fall) An in-depth study of the principles of athletic training. 3lec.

145 Practical Aspects of Athletic Training (2)
Prereq: C or better in 140. (Winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2lec, 1 lab.

150 Prevention/Management of Athletic Injuries (3)
Prereq: C or better in 145. (Spring) Techniques of prevention and management of athletic injuries and illnesses. 3lec.

180A Practical Applications of Athletic Training IV (1)
Coreq: 140. (Fall) The practical application course is the first course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

180B Practical Applications of Athletic Training II (1)
Prereq: 180A. (Winter) The practical application course is the second course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

180C Practical Applications of Athletic Training III (1)
Prereq: 180B. (Spring) The practical application course is the third course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

240 Recognition and Evaluation of Athletic Injuries (3)
Prereq: 280B; BIOS 301 or 302. (Winter) Advanced techniques in management and recognition of athletic injuries in lower body. 3lec, 2 lab.

245 Emergency Care of Athletic Injuries (3)
Prereq: 280B; PESS 227, 228; BIOS 301 or 302. (Spring) Advanced course in emergency care designed for, but not limited to, athletic training majors. Helps the student with the realization of proper emergency care. Experience reinforced with comprehension of related policies and procedures, as well as their application. 2 lab, 2 lec.

280A Clinical Applications in Athletic Training I (1)
Prereq: C or better 150; 180C, major. (Fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

280B Clinical Applications in Athletic Training II (1)
Prereq: 280A. (Winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

280C Clinical Applications in Athletic Training III (1)
Prereq: 280B. (Spring) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

300 Recognition and Evaluation of Athletic Injuries II (4)
Prereq: C or better 240, 280C. (Spring) Advanced techniques in management, assessment, and recognition of athletic injuries of the upper body. 3lec, 2 lab.

310 Therapeutic Exercise (5)
Prereq: C or better 300; 380A. (Winter) Concepts and practices associated with the conditioning and reconditioning (rehabilitation) of athletic injuries. 4lec, 2 lab.

315 Therapeutic Modalities (5)
Prereq: C or better 310; 380B; PHYS 202. (Spring) Therapeutic modalities used in the treatment and rehabilitation of athletic injuries. 4lec, 2 lab.

350 Independent Study (1–5)
Prereq: jr, perm. Selected individual case studies utilizing techniques and therapeutic modalities used in the treatment and rehabilitation of athletic injuries. Additional one-hour credit for oral presentation of written analysis. Case studies completed under direction of athletic training faculty.

380A Clinical Applications in Athletic Training IV (1)
Prereq: C or better 240, 245, 280C. (Fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

380B Clinical Applications in Athletic Training V (1)
Prereq: C or better 300, 350, 350A. (Winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

380C Clinical Applications in Athletic Training VI (1)
Prereq: C or better 310; 380B. (Spring) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

418A Instructional Experiences (1–15)
Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

420 Administration of Athletic Training (3)
Prereq: 480A. (Fall) Introduction to processes necessary for implementation, maintenance, and administration of athletic training programs. 3lec.

480A Clinical Applications in Athletic Training VII (1)
Prereq: C or better 315, 380C. (Fall) The clinical application course series is designed to be the culminating clinical experience so to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic programs. Provides “hands-on” clinical skills necessary for the continued development of the student athletic trainer. 2 lab.