

General Education Courses Offered Fall 2021

Unless otherwise stated, all courses are 3 credit hours. Complete course descriptions can be found at Catalog.UA.edu.

Areas of General Education

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Freshman Composition (FC)

If you have AP, IB, or dual enrollment credit for EN 101 and EN 102, you have completed your Freshman Composition requirement and may take literature courses.

EN 101: English Composition I. Course most commonly taken to fulfill the first half of FC requirement

EN 102: English Composition II. Second half of FC requirement. A C- or higher in EN 101 is required.

EN 103: Advanced English Composition. An accelerated FC course open to students with minimum of 28 ACT/1350 SAT, or ACT English scores of 30 or SAT verbal scores of 730. Fulfills FC requirement in one semester

EN 104: English Composition BUI. FC course for students in the Blount Scholars Program. Fulfills FC requirement in one semester.

EN 120: English Comp I, Non-Native Speaker. First of two FC courses for non-native speakers

EN 121: English Comp II, Non-Native Speaker. Second of two FC courses for non-native speakers

Foreign Language (FL)

ARB 101: Elementary Arabic 4 hrs.

ARB 102: Elementary Arabic II 4 hrs.

ASL 101: American Sign Language I

CHI 101: Elementary Chinese 4 hrs.

CHI 102: Elementary Chinese II 4 hrs.

FR 101: Elementary French I 4 hrs.

FR 102: Elementary French II 4 hrs.

FRS 101: Elementary Farsi I

FRS 102: Elementary Farsi II

GN 101: Elementary German I 4 hrs.

GN 102: Elementary German II 4 hrs.

GN 103: Accelerated Elementary German 4 hrs.

GR 101: Beginning Greek I

HEB 101: Elementary Hebrew Language

HIN 101: Elementary Hindi

IT 101: Introductory Italian I 4 hrs.

IT 102: Introductory Italian II 4 hrs.

JA 101: Elementary Japanese I 4 hrs.

JA 102: Elementary Japanese II 4 hrs.

KOR 101: Elementary Korean I

KOR 102: Elementary Korean II

LA 101: Elementary Latin I

MDGR 101: Elementary Modern Greek

MDGR 102: Elementary Modern Greek

POR 101: Elementary Portuguese I

POR 102: Elementary Portuguese II

RUS 101: Elementary Russian I 4 hrs.

SP 101: Introductory Spanish I 4 hrs.

SP 102: Introductory Spanish II 4 hrs.

SWA 101: Elementary Swahili

Foreign Language (FL) *continued*

SWA 102: Elementary Swahili

THAI 101: Elementary Thai

THAI 102: Elementary Thai

TURK 101: Elementary Turkish

TURK 102: Elementary Turkish

Computer Science (C)

If you are a Mathematics major or participating in the Randall Research Scholars Program, consult your academic advisor for the appropriate computer science course. Be aware that some majors have their own "C" designated courses.

This list is not all-inclusive – it includes "C" designated courses most commonly taken by A&S students.

CIS 250: Introduction to Design Software. This class is an active learning introductory skills course to the Adobe CC programs Photoshop, Illustrator and InDesign. Computing proficiency is required for a passing grade in this course.

CS 102: Computer Applications. Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management.

CS 104: Computer Science Principles *Prerequisite with concurrency: MATH 112 or higher*. An introductory course that overviews the core principles of computer science from a broad spectrum of topics. The course content is focused on computing and its relation to creativity, abstraction, algorithms, programming, Big Data, Internet/networking, and societal impact.

CS 202: Web Foundations Introduces the student to the fundamentals of the internet and web page design and development. Students will be shown how to use the internet, text editors, and build basic web pages using HTML coding. This will include, but not be limited to hyperlinks, tables, basic CSS styling, frames and forms. The student will also be given demonstrations and assignments using a WYSIWYG editor.

CS 285: Intro to Spreadsheet Applications Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm.

CS 302: Database Applications An introduction to commercial database packages. Students will gain familiarity with both creating and using standard

database software packages to solve real-world problems.

CS 305: Advanced Database Applications and Design *Prerequisite: D or higher in CS 302*. This course is designed for non-majors wishing to learn more about the use of database systems in a wide variety of applications. Coverage includes advanced database topics such as advanced queries, custom forms and custom reports.

CS 312: Website Design *Prerequisite: D or higher in CS 202*. A course designed to teach website design principles and implementation techniques. The course requires prior knowledge of the fundamentals of the internet and web page design and development.

CS 340: Legal & Ethical Issues in Comp. By way of case study, the course finds and frames issues related to legal and ethical issues in computing.

CS 345: Adv. Legal & Ethical Issues *Prerequisite: D or higher in CS 340*. Using case study and fact pattern analysis, students will find and frame legal and ethical issues presented by past, contemporary and emerging technology. Students will engage in service learning to enhance their sense of civic responsibility.

CS 385: Advanced Spreadsheet Applications *Prerequisite: D or higher in CS 285*. Design and construction of standard user interfaces using a visual programming environment. Course includes the prototyping of several standard user interface mechanisms.

GEO 450: Geostatistics *Prerequisite: MATH 125/145 and CS 101 or 102*. This course serves as an introduction to statistics for the Earth and Environmental Sciences. Topics include an introduction to probability theory, experimental design, statistical hypothesis testing, regression, clustering, Kriging and other forms of spatial analysis, time series analysis, and an introduction to machine learning

GY 330: Computer Mapping Graphics. *Prerequisite: GY 204*. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping

GY 420: Remote Sensing I *Prerequisite: GY 204*. Introduction to the basic principles of electromagnetic radiation, interaction between energy and earth features, remote sensing instruments, and information extraction from remotely sensed data.

Computer Science (C) *continued*

GY 430: Intro Geographic Info Systems. *Prerequisite: GY 204.* Introduces basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS

GY 436: Adv. Geographic Info Syst. *Prerequisite: GY 430.* Evaluation of case studies, spatial model development, and database design for geographic information systems

JCM 202: Introduction to Post Production. Introduces students to the theories and techniques of digital video and computer based post-production.

MATH 237: Introduction to Linear Algebra *Prerequisite: MATH 126/146.* Fundamentals of linear algebra and matrix theory.

MATH 238: Applied Diff. Equations I. *Prerequisite: MATH 126/146* Introduction to analytic and numerical methods for solving differential equations

ST 260: Statistical Data Analysis. *Prerequisite: MATH 112 or higher.* Introduction to the use of basic statistical concepts in business applications.

Fine Arts (FA)

ARH 151: Intro to Visual Arts. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

ARH 252: Survey of Art I. Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods

ARH 253: Survey of Art II. Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.

ARH 254: Survey of Art III. Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.

BA 205: Introduction to Book Arts. This course will primarily focus on the history and appreciation of Book Arts traditions and contemporary practices, emphasizing the book as a form of cultural expression.

DNCA 114: Dance Appreciation. An introduction to the art of dance focusing on cultural influence, functions of

dance in society, styles, choreographic trends, and notable artists and dances

EN 200: The Living Writer: Introduction to Creative Writing. *Prerequisite: EN 101 or 120.* Introduction to the craft of imaginative writing, the landscape of contemporary literature, and the writer as artist. Students will engage UA's literary arts culture and regularly attend readings and author events.

FA 200: Introduction to Fine Arts. An introduction to the fine arts, drawing especially on campus and community cultural events.

JCM 112: Motion Picture History and Criticism. Development of the cinema, with emphasis on relation of technical advances to film content and style.

MUS 121/122: Intro to Listening (122=Honors). The course presupposes no musical training on the student's part. Emphasis is on what to listen for in music.

NEW 212/213: Creativity (213=Honors). This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion

TH 114: Intro to the Theatre. Introduction to the theatre through the study of plays, stage histories, practitioners, elements of theatre and production techniques.

TH 120: Principles of Stage Design. An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

Literature (L)

A sequence in Literature or History is required. Most literature courses require completion of EN 101 & 102, or EN 103, or EN 104, or EN 120 & 121.

AAST 249/EN 249/251: African American Literature (EN251 = Honors). Survey of African American literature from its earliest expressions to 1935. The course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

AAST 250/EN 250/252: African American Literature (EN252 = Honors). Survey of African American literature from 1935 to the present. The course material includes poetry, drama, autobiography, fiction, and nonfiction.

EN 205/215: English Literature I (215 = Honors). Survey of English literature from the Anglo-Saxon period to 1800, including, Chaucer, Shakespeare, and Milton.

Literature (L) *continued*

EN 206: English Literature II. Survey of English literature from 1800 to the present, including, works from the Romantic, Victorian, and Modern eras.

EN 207/117: World Literature I (217 = Honors). Survey of world literature from the Classical period to the Renaissance.

EN 208/218: World Literature II (218 = Honors). Survey of world literature from the Enlightenment to the Modern period.

EN 209/219: American Literature I (219 = Honors). Survey of American literature from its beginnings to 1865, including, work by Poe, Thoreau, Emerson, Melville, and Whitman, among others.

EN 210/220: American Literature II (220 = Honors). Survey of American literature from 1865 to the present, including, work by Dickinson, Twain, Hemingway, Faulkner, and Morrison.

EN 250: African American Literature II. Survey of African American literature from 1935 to the present. The course material includes poetry, drama, autobiography, fiction, and nonfiction.

GN 264: German Literature Translation I. German 264 is a survey in English of German literary masterpieces from the Middle Ages to the period around 1800.

Humanities (HU)

Some Foreign Language & Fine Arts credits may also count towards Humanities credits if more hours are taken than needed for general education.

AMS 150: Introduction to American Pop Culture. Exploration of the relation between the arts - popular, folk, and elite - and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s.

AMS 203/213: Southern Studies (213 = Honors). This discussion-based course introduces students to major texts and interdisciplinary methodologies in the field of Southern Studies.

AMS 204: Intro to Western Studies. A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West.

AMS 205: Dirty Jobs. Explores jobs that get you "dirty." Work is one of the aspects that most shapes individual lives, and many lines of work are viewed as dangerous, dirty, or somehow unsavory by American society. This

course uses films, TV shows, written narratives, and music to explore different types of "dirty" work in the United States.

AMS 206: Native American Studies. There's a lot more to Native Americans than the first Thanksgiving, the Battle of the Little Bighorn, and casinos. This course will introduce you to the diversity of Native American societies, their histories, and their significant influence on American culture, contemporary U.S. policy, and law. As much as possible, we'll be directly engaging Native sources and voices as we explore the struggles over land, sovereignty, and culture that have shaped (and continue to shape) Native American lives.

AMS 231: Contemporary America. This course analyzes the changing nature of American values for the period dating from the 1970s through the 2000s.

BUI 101: Foundations: Origins. A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

CIP 200: Introduction to Global & Cultural Perspectives. Designed to introduce the undergraduate student to the cultural, economic, physical and political aspects of being a world citizen in the 21st century.

CIP 202: Introduction to Global and Cultural Perspectives: Exp. Lrng. At UA's Capstone International Center, we know that a 21st century citizen is certain to live a life that includes a variety of encounters with other cultures. It is our hope that you will take advantage of the many opportunities UA offers for intercultural engagement. And, this course has been designed to be one of those opportunities.

CL 222: Greek Roman Mythology. Introduction to classical mythology itself and the principal Greek and Roman myths.

COM 100: Rhetoric and Society. The impact of public discourse on the ideas and issues of culture and history.

COM 121/122: Critical Decision Making (121=Honors). Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process.

Humanities (HU) *continued*

COM 123/124: Public Speaking (124=Honors). Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations.

COM 210: Oral Interpretation Literature. Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally.

EN 201: How English Works. *Prerequisite: EN 101 & 102 or EN 103*. Students will explore the elements from which languages are composed, examine differences across languages, and see how linguistic data and methods are brought to bear on real-world issues in the realms of psychology, literary studies, sociology, education, and the judicial system.

GN 260: Holocaust in Film & Lit. As the Holocaust recedes in time, written and filmic documents (history, autobiography, art) increasingly shape our perception and understanding of the event.

JCM 200: Foundations for Journalism Practices. Survey of how the practices of journalism and news work in the context of a humanities course. Students should be able to deconstruct various stories in the news media to understand how economic, social, and ethical principles affect news reporting

NEW 211: Perspectives in the Humanities. 4 hrs. Introductory course in the humanities (art, literature, music, etc.) with a focus on problem solving, risk taking and communication. Human behavior and writing skills are stressed

PHL 100: Intro to Philosophy. Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge.

PHL 104: Critical Thinking. Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.

PHL 106/195: Deductive Logic (106=Honors). *Prerequisite: C- or better in MATH 100 or higher*. In this course, you will explore and analyze influential arguments from the history of philosophy, including arguments concerning questions of values, ethics, and aesthetics.

PHL 211: Ancient Philosophy. This course will focus on the major themes of ancient Greek philosophy, from the earliest pre-Socratic philosophers, through Plato and Aristotle, to the later Epicureans, Stoics, and Skeptics.

PHL 221/292: Intro to Ethics (221=Honors). Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one's own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality.

PHL 223: Medical Ethics. This class provides an introduction to the philosophical study of applied ethics by way of a discussion of topics related to the practice of medical and biological science.

PHL 230: Political Philosophy. This course serves as an introduction to central debates in political philosophy. The major questions we explore are the following: How can the coercive authority the government exercises over its citizens be justified? What does justice require in our society today? What role do democracy, freedom, rights and equality play in our understanding of a just society? Through the study of both historical and contemporary texts, we investigate these topics.

PHL 234: Social Philosophy. How should we live together? In this course, we seek to answer this question through moral assessment of the institutional rules and cultural norms that shape our interaction with others and the world around us. We specifically consider issues in the following two categories: I. Markets & consumption.

PHL 243: Phil. Issues in Const. Law. This is a course exploring major issues in the philosophy of constitutional law. Generally constitutional law is concerned with what powers and responsibilities governments have as well as what the limits on those powers might be, including civil rights. In doing so, constitutions guide official determinations of what counts as legally valid within the relevant jurisdiction.

PHL 256: Philosophy of Sport. This course will examine some of the major themes in the burgeoning field of philosophy of sport, paying special attention to a number of important ethical issues.

Humanities (HU) *continued*

PHL 260: Mind and Nature. This course is framed around two questions. First, what is the place of the mind in nature? Second, what is the place of nature in the mind?

PHL 261: Philosophy, Psychology, and Neuroscience. Recent results in psychology and neuroscience have relevance to perennial topics in philosophy such as free will, rationality, ethics, and religion. This class surveys the give and take between these fields that has occurred over the last few decades.

REL 100/105: Intro to Religious Studies (105=Honors). Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures.

REL 102: Religions of World. This comparative study of religions highlights complexity in world religions. Topics, such as texts, practices, and deities, organize the study of different pairs of religions

REL 103: Religion in the News. This introductory level course examines the place and function of religion in modern culture by examining the way stories are (or are not) identified as religious in news media

REL 104: Religion in Pop Culture. This course introduces students to a set of recent, historical examples where the scholar of religion can shed light on the workings of contemporary day-to-day life. This course addresses the ability of students to deal with questions of values, ethics, or aesthetics as they are represented in humanistic fields.

REL 106: Introduction to Ancient Greek Religions. This course is an introduction to the myths and practices of what contemporary scholars call ancient Greek religion. It examines the problem of defining "religion," and translating specific ancient Greek terms as "religion," and the implication involved in this process.

REL 112: Intro to the New Testament. Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

REL 226: African Diaspora Religions. Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African-American religions in North America), focusing on the interplay between religion, culture and politics.

REL 236: Islam. An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL 241: American Religious History. This course offers a survey of religious themes and movements in American culture from the period before European colonization to the present. It is of particular use for students interested in American history, law, American studies, religious studies, and cultural studies.

THMT 301: Musical Theatre History I. This course offers students an opportunity to analyze the developmental history of the indigenous American art form of musical theatre.

UH 201: Classics & Western Culture. *University Honors students*. This course introduces students to the western literary canon from the ancient to the medieval period. Writers to be studied include Homer, Sophocles, Virgil, and Dante.

WS 200: Intro to Women Studies. An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

History (HI)

A sequence in History or Literature is required.

HY 101/105: Western Civ to 1648 (105=Honors). A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe.

HY 102/106: Western Civ Since 1648 (106=Honors). Covers the development of the Western world from the Thirty Years' War to the post-World War II era.

HY 103/107: American Civilization to 1865 (107=Honors). A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization.

HY 104/108: American Civ Since 1865 (108=Honors). A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization.

History (HI) *continued*

HY 111: Colonial Latin America. Formation of the largely Spanish speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 113: Asian Civilization to 1400. Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan and Southeast Asian, with large cultural and religious emphases.

HY 115: History of Science and Medicine to 1800. This course will explore the origins and evolution of science and technology and the relationship both had to the societies that produced them.

HY 117: World History to 1500. This course examines the political, economic, religious and social history of the world from the first civilizations that emerged around 3000 BC to about the year AD 1500.

SW 200/205: History Social Welfare US (205=Honors). Study of the historical development of social welfare, the social work profession, and the philosophical bases for the provision of various social welfare services to persons throughout the life course

Social and Behavioral Sciences (SB)

AAST 201/AMS 201: Intro African American Study. A basic outline of the diversity and complexity of the African-American experience in the United States.

ANT 100: Anthropology: The Study of Humanity. This course introduces students to the subfields of anthropology and demonstrates the benefits of a holistic approach to understanding globalization, multiculturalism, and cultural diversity.

ANT 102: Intro to Cultural Anthropology. An introduction to the discipline of cultural anthropology, the branch of anthropology that examines the rules and behaviors of contemporary human cultures.

ANT 103: Discoveries in Archaeology. This course examines the major archaeological discoveries of the last two centuries that have led to significant insight about the nature of human organization

ANT 106: Native Peoples of North America. Comprehensive overview of the prehistory, history, and modern day cultural diversity of Native Americans throughout North America.

ANT 107: Intro to Archaeology. Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.

ANT 225: Introduction to Global Health. This course covers the biological, cultural, social aspects of major international health issues, especially in the areas of infectious disease, nutrition, and environmental health. The course will also explore the integration of anthropology in global health work.

APR 101: Creativity and American Culture. A survey of the theoretical, procedural and ethical issues associated with creative thinking.

APR 221: Intro to Advertising. A foundation course in advertising that includes historic and contemporary perspectives, advertising institutions and an overview of advertising theory, planning and practice.

APR 231: Intro Public Relations. A foundation course in public relations that includes historic and contemporary perspectives, public relations institutions and an overview of public relations theory, planning and practice.

CD 102/103: Communicative Disorders First-Year Overview (103 = Honors). To learn skills and techniques helpful as they continue on in the college career. Through experiential learning and guest speakers students will learn many things about the field.

CJ 100: Intro Criminal Justice. An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components.

COM 101: Principles Human Communication. General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals.

COM 219/220: Interpersonal Communication (219=Honors). Study of verbal and nonverbal communication in the evolution of human relationships.

Social and Behavioral Sciences (SB) *continued*

EC 110/112: Principles of Microeconomics (112=Honors). *Prerequisite: MATH 100 or higher or UA Math Placement of 310, ACT Math 34, (New) SAT Math of 580, or (Old) SAT Math of 560.* Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.

EC 111/113: Principles of Macroeconomics (113=Honors). *Prerequisite: EC 110 or 112.* Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development.

GY 105: World Regional Geography. Introduction to geography through a survey of the world's major geographic regions.

GY 110: People, Places, & Environment. Introduction to geography as a science for learning the fundamentals of human behavior and decision making.

HD 101/102: Life Span Human Development (102=Honors). An introductory survey of basic principles of human development across the life span.

JCM 100: Introduction to Story. Introduction to story introduces students to narrative structure across a variety of media including film, television, news, documentary, and emerging media

MC 101: Intro to Mass Communication. Introduction to the fields of communication, including theory, law and regulation, history, social implications, and mass media operations

NEW 140: Sexuality and Society. This course engages debates around sexuality as central to human behavior and to social structures, in both America and the world.

NEW 237: Social Problems, Social Change. This seminar explores significant social problems in contemporary society and the complex ways in which social change occurs. This course has a 12 hour service-learning component.

NEW 238: Honors: Cooperation & Conflict. *University Honors students.* This honors seminar explores cooperation and conflict in human societies – all that we do or fail to do in living together effectively. This course has a 12 hour service-learning component.

NEW 273: Social Issues & Ethics. *4 hrs.* This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences as they relate to ethical inquiry. The primary focus is on the nature of inquiry and models for the analysis of ethical issues confronting the modern world. Students will explore the complexity of moral dilemmas and effective societal responses to competing moral obligations in the areas of health care, socio-economic disparities, affirmative action, immigration, and racism.

PSC 101: Intro American Politics. Survey of the principles, political institutions, and practices of American national, state, and local politics.

PY 101/105: Intro to Psychology (105=Honors). Basic principles of psychology

SOC 101: Intro to Sociology. Introduction to the scientific study of human social behavior

SOC 202: Social Problems. Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

SPE 100: Exceptional Lives in Society. Introduction and overview for non-education majors regarding characteristics of diversity, exceptionalities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included.

SW 212: Death Dying Bereavement. Analysis of a variety of issues and problems presented by death, dying, and grief in American culture, with some comparison to other cultures.

Natural Sciences (N)

Natural Science course are 4 hours when including labs, unless otherwise specified.

ANT 270: Intro to Biological Anthropology. An introduction to human evolution, biological variation, and adaptation, from the deep past to the present, with a special focus on the biocultural foundations of human nature

AY 101 & 102: Intro to Astronomy & Lab. This course surveys the development of our current understanding of the Universe, including our Solar System, exoplanets, stars and stellar evolution, galaxies and cosmology, and life in the Universe.

Natural Sciences (N) *continued*

AY 203: Observational Astronomy. *Prerequisite: MATH 113 or higher.* (2 hours) In this course students learn to observe and record images and spectra of planets, stars, nebulae, and galaxies using portable telescopes on campus, the 16-inch telescope of the campus observatory, telescopes located in the darker skies at Moundville, and observatory telescopes in Arizona and Chile by internet control.. Students should normally have completed AY101 or a more advanced astronomy course; people concurrently enrolled in AY101 or AY204 can be admitted with the permission of the instructor
NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 or AY 206 must also be taken.

AY 204: Solar System Astronomy. *Prerequisite: MATH 113 or higher* (3 hours) This course provides (1) a discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system; (2) an understanding of the detection techniques and current census of extrasolar planets; and (3) a discourse on the possibility of life on other planets. NOTE: If the student plans to apply AY 204 toward satisfaction of the N requirement of the University Core Curriculum, AY 203 must also be taken.

BSC 108: Intro Biology Non Majors I. Lecture and laboratory. *Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120).* Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. BSC 108 and BSC 109 may be taken in either order.

BSC 109: Intro Biology Non Majors II. Lecture and laboratory. *Not open to biology majors or minors, or to pre-health professions students.* Study of the physiology of living organisms with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. BSC 108 and BSC 109 may be taken in either order.

BSC 113: Introduction to Principles of Biology I (1 hour). This course is designed for students with lower level science and math backgrounds to successfully complete the freshman level entry course BSC 114 Principles of Biology I, a foundation and core science survey course.

This is a 1 credit hour course for students who are concurrently taking BSC 114 but do not have placement into at least Math 115.

BSC 114 & 115 / 118: Principles of Biology I & Lab (118=Honors). Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics evolution; and a survey of simple organisms, including viruses, bacteria, protista and fungi. Offered fall, spring and summer.

BSC 116 & 117: Principles of Biology II & Lab. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer.

CH 100: General Chemistry I – Plus / Lab. *Prerequisite: MATH 100 or higher. Corequisite: MATH 112 or 113.* This course is designed for students with lower level math backgrounds to successfully complete the freshman level entry course in general chemistry, a foundational and core science survey course. This is proposed 5 credit hr course for students who are taking, or meet the requirements to take, MATH 112 or 113 and who do not have placement into at least MATH 115. Student who receive credit for CH100 will qualify to subsequently take CH102.

CH 101/117: General Chemistry w/ Lab (117=Honors). *Prerequisite: MATH 113 or higher. Corequisite: MATH 115 or higher.* Three lectures and one three-hour laboratory. A survey of the fundamental facts, principles, and theories of general chemistry.

CH 102: General Chemistry II w/ Lab. *Prerequisite: CH 100, 101, or 117. MATH 112 or higher. Corequisite: MATH 113.* Three lectures and one three-hour laboratory. Continuation of CH 100 or CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds.

CH 104: Introduction Chemistry w/ Lab. Three lectures and one three-hour laboratory. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

Natural Sciences (N) *continued*

GEO 101: The Dynamic earth w/ Lab. Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics.

GEO 102: The Earth Through Time w/ Lab. Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life.

GEO 103: Oceanography w/ Lab. This course is an introductory study of the Earth Ocean system, including processes shaping the ocean floor and coastlines; basic physical and chemical properties of the seawater; ocean circulation and climate change, and biological productivity and marine life.

GEO 104: Hazardous Earth w/ Lab. This natural science course examines geologic and other Earth hazards that impact humans and ways that human activities often increase these hazards.

GEO 105: Sustainable Earth w/ Lab. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment.

GY 101: Atmospheric Proc & Patterns w/ Lab. Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

GY 102: Earth Surface Processes w/ Lab. Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

NEW 243: Interdisciplinary Sciences. This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.

PH 101: General Physics I w/ Lab. *Prerequisite: MATH 113 or higher.* Lectures and laboratory. An algebra-based introductory course including classical mechanics and thermodynamics.

PH 102: General Physics II w/ Lab. *Prerequisite: PH 101, 105, or 125.* Lectures and laboratory. An algebra-based introductory course including electricity and magnetism, optics, and modern physics

PH 105/125: General Physics w/ Calc I (125=Honors). *Prerequisite: MATH 125 or 145.* Lectures and laboratory. This is an introductory calculus-based course covering classical mechanics, conservation laws, oscillations, waves, and thermal phenomena.

PH 106/126: General Physics w/ Calc II (126=Honors). *Prerequisites: MATH 126 or 146 and PH 101 or 105 or 125.* Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics.

PH 253 & 255: Intro Modern Physics & Lab. *Prerequisites: MATH 126 or 146 and PH 102 or 106 or 126.* Study of topics in modern physics, including special relativity, quantum physics, atomic structure, solid state physics, and selected additional topics (e.g. lasers, molecular physics, the atomic nucleus).

Mathematics (MA)

MATH 100: College Algebra is not in this list because, while it counts toward the student's degree, it is not a general education course. Some students will need to take it as a prerequisite course. All math courses listed here require a specific prerequisite, placement by ACT/SAT score, or UA math assessment.

MATH 110: Finite Mathematics. *Prerequisite: C- or higher in MATH, UA Math Placement of 190-600, ACT Math of 18, (Old) SAT Math of 440, or (NEW) SAT Math of 480.* This course is intended to give an overview of topics in finite mathematics with applications. This course covers mathematics of finance, logic, set theory, elementary probability and statistics. This course does not provide sufficient background for students who will need to take Precalculus Algebra or Calculus.

MATH 112: Precalculus Algebra. *Prerequisite: C- or higher in MATH 100, UA Math Placement of 310-439, ACT Math 24, (Old) SAT Math 560, or (New) SAT Math 580.* A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions.

Mathematics (MA) *continued*

MATH 113: Precalculus Trigonometry. *Prerequisite:* C- or higher in MATH 112. Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities and trigonometric equations.

MATH 115: Precalc Algebra & Trig. *Prerequisite:* UA Math Placement of 370-439, ACT Math 28, (Old) SAT Math 630, or (New) SAT Math 650. Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates.

MATH 121: Calculus & Applications. C- or higher in MATH 112 or MATH 115, UA Math Placement of 440-600. ACT Math 30, (Old) SAT Math 680, or (New) SAT Math 710. A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration. This course does not provide sufficient background for students who will need higher levels of Calculus and does not satisfy the requirement for MATH 125 or 126.

MATH 125: Calculus I. *Prerequisite:* MATH 112 & 113 or MATH 115, UA Math Placement of 440-600, ACT MATH 30, (Old) SAT Math 680, or (New) SAT Math 710. This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus.

MATH 145: Honors Calculus I. *Prerequisite:* B- or higher in MATH 112 & 113 or MATH 115, ACT MATH 32, (Old) SAT Math 730, or (New) SAT Math 760. This course covers the same material as MATH 125 but in a depth appropriate for honors students.

MATH 126: Calculus II. *Prerequisite:* MATH 125 or MATH 145. This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, parametric equations, polar coordinates, conic sections and infinite series.

MATH 146: Honors Calculus II. *Prerequisite:* B- or higher in MATH 125 or MATH 145, score of 4 on AP Calculus AB,

or score of 4 on AP Calculus BC. This course covers the same material as MATH 126 but in a depth appropriate for honors students

MATH 227: Calculus III. *Prerequisite:* MATH 126 or 146. This is the third of three courses in the basic calculus sequence. Topics include: vector functions and motion in space; functions of two or more variables and their partial derivatives; and applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals and Stokes' Theorem

MATH 247: Honors Calculus III. *Prerequisite:* B- or higher in MATH 126 or MATH 146 or score of 4 on AP Calculus BC. This course covers the same material as MATH 227 but in a depth appropriate for honors students.

MATH 238: Applied Diff Equations I. *Prerequisite:* MATH 126 or MATH 146. Introduction to analytic and numerical methods for solving differential equations.

Writing (W)

Writing-designated courses (different from composition and literature) are required for general education. They are not included in this list because they are typically taken during the student's junior or senior year, and not as a freshman or sophomore.

