

Subj	Cat	Title	Description	Method	MinCr	MaxCr
ACCT	110	ACCT FOR SUPERVISORS	Provides practical applications of accounting information useful to supervisory level personnel, with limited knowledge of the theoretical foundation. The course content presents a brief overview of financial statements and their components. The course provides an investigation into the use of managerial accounting, including topics such as cost accumulation, product costing, budgets, and evaluation procedures. Important to the supervisors are the influences on them and their subordinates resulting from the creation and use of accounting information. The course is offered online. Prerequisites: Enrollment in the BASTL Program.	LEC	3	3
ACCT	220	FINANCIAL ACCOUNTING	Familiarizes students with a basic understanding of generally accepted accounting principles (GAAP) and its applications. Includes accounting fundamentals, accounting for assets, liabilities and ownership interests, and analysis of accounting data. For non-accounting majors only. Three hours lecture per week. Prerequisite: BUSED.101.	LEC	3	3
ACCT	221	PRIN ACCOUNTING 1	Presents the accounting cycle for service and merchandising activities of a sole proprietorship; special journals and ledgers, accrued and deferred items, cash, receivables and inventories. General ledger and/or spreadsheet computerized accounting is required. Three hours lecture per week.	LEC	3	3
ACCT	222	PRIN ACCOUNTING 2	Further develops the accounting cycle; recording, summarizing, interpreting financial data for partnerships and corporations. Includes cash flows, long-term liabilities, plant assets and payroll accounting. A practice set and general ledger and/or spreadsheet computerized accounting are required. Three hours lecture per week. Prerequisites: ACCT.220 or ACCT.221	LEC	3	3
ACCT	223	MANAGERIAL ACCTG	Focuses on the accounting, other quantitative, and qualitative analyses and information needed to foster optimal management decision making and reporting. Students will study various management accounting concepts, processes, and techniques available to provide that relevant information. Students are expected to be proficient in the use of computerized spreadsheet and word-processing software. For non-accounting majors only. Three hours lecture per week. Prerequisites: ACCT.220 or ACCT.222 and ITM.175.	LEC	3	3
ACCT	321	INTER ACCOUNTING 1	Presents the conceptual framework of accounting, accounting environment and information processing system, financial statements and accounting standards, accounting uses of present and future value concepts, cash and receivables and inventories. Use of Peachtree Accounting Software to complete an accounting cycle through computer is required. Three hours lecture per week. Prerequisites: ACCT.222 or ACCT.220. (This is a required course for accounting majors, but it can be taken by non-accounting majors.)	LEC	3	3
ACCT	322	INTER ACCOUNTING 2	Presents accounting standards for property, plant, and equipment, intangible assets, current liabilities and contingencies, long-term liabilities, contributed capital and retained earnings sections of stockholders equity, stock rights and options, and dilutive securities and earnings per share. Requires students to use an approved word processing software package to produce a research paper. Three hours lecture per week. Prerequisites: ACCT.321	LEC	3	3
ACCT	323	INTER ACCOUNTING 3	Presents accounting standards pertaining to investments in debt and equity instruments, revenue recognition, pension plans, leases, income taxes, accounting changes and error correction, Statement of Cash Flows, and accounting disclosures. The use of a spreadsheet program is required. Three hours lecture per week. Prerequisite: ACCT.322.	LEC	3	3

ACCT	324	FEDERAL TAX ACCTG	Introduces basic tax laws pertaining to preparation of individual federal tax returns and supporting schedules. Emphasis on tax law research using federal tax services and contemporary professional literature. Three hours lecture per week. Prerequisite: ACCT.321	LEC	3	3
ACCT	348	COST ACCOUNTING	In-depth study of the three major production costs raw material, factory overhead, and labor. This course requires moderate spreadsheet skills. Three hours lecture per week. Prerequisite: ACCT.222 or ACCT.223.	LEC	3	3
ACCT	358	MANAGERIAL REPORTING	Continuation of ACCT.348, concentrating on management accounting issues, including standard costs and budgets. Emphasis on case studies used to analyze and interpret cost data. Intended primarily for accounting majors. Three hours lecture per week. Prerequisite: ACCT.348	LEC	3	3
ACCT	431	TOPICS IN FIN REPORT	Topics in Financial Accounting focuses on the accounting and reporting for partnerships, foreign currency transactions, restatement of financial statements of foreign subsidiaries from foreign currency units to U.S. dollars, and accounting and reporting for governmental and non-profit organizations. It also covers segment reporting, interim reporting, derivative financial statements, and SEC reporting requirements. Three hours lecture per week. Prerequisite: ACCT.323.	LEC	3	3
ACCT	432	INTERN IN ACCOUNTING	Provides work experiences in the accounting profession. Prerequisite: 75 semester hours completed, minimum 2.5 GPA, and adequate course preparation for the tasks to be performed.	SUP	1	6
ACCT	442	AUD THEORY & PROCED	Provides a rigorous introduction to concepts and techniques used by CPA firms to perform financial statement audits. Includes professional and ethical standards, legal liabilities, audit objectives, planning, risk assessment, evaluation of internal control, selection and use of audit procedures, audit reports, and work paper preparation and techniques to support the audit report. Four hours lecture per week. Prerequisites: ECONOMIC.256, ACCT.310 and ACCT.323.	LEC	4	4
ACCT	456	COMP FORENSICS	This course covers obtaining and analyzing digital accounting data for accounting fraud in a manner that sustains burden of proof or other challenges from third parties. Uses computer assisted audit tools and techniques and computer forensics hardware and software. Three hours lecture per week. Prerequisites: ACCT.326.	LEC	3	3
ACCT	500	MBA ASSESSMENT	Attendance and participation in outcomes assessment activities required for AACSB-I accreditation purposes. This course is required of all MBA students. Three hours lecture per week.	LEC	0	0
ACCT	501	FINANCIAL ACCOUNTING	Investigates selected financial reporting topics and issues. Selected topics include: Cash, receivables, inventories, property, plant and equipment, intangibles, payables, employee benefits, non-current liabilities, leases and contingencies, and equity. Prerequisites: Graduate Standing, ACCT.321 and ACCT.322. Three hours lecture per week.	LEC	3	3
ACCT	502	ADV FINANCIAL ACCTG	Investigates selected financial reporting topics and issues. Selected topics include: Accounting concepts and standards; Financial statements; Income statement items; Financial statement disclosure; Business combinations; Derivatives, hedging and related topics; Governmental accounting; and Not-for-profit accounting and reporting. Three hours lecture per week. Prerequisites: Graduate Standing, ACCT.321 and ACCT.322 or equivalent.	LEC	3	3

ACCT	511	FIN & MAN ACCT	Introduces the essentials of financial and managerial accounting for managers. Topics include financial statement analysis and budgeting. Spreadsheet software is used extensively. Intended for Master of Business Administration (MBA) students. Not available for elective credit for the Master of Accountancy program. Not recommended for MBA students with an undergraduate major or minor in accounting. Three hours lecture per week. Prerequisites: Graduate standing.	LEC	3	3
ACCT	511	FIN & MAN ACCT	Introduces the essentials of financial and managerial accounting for managers. Topics include financial statement analysis and budgeting. Spreadsheet software is used extensively. Intended for Master of Business Administration (MBA) students. Not available for elective credit for the Master of Accountancy program. Not recommended for MBA students with an undergraduate major or minor in accounting. Three hours lecture per week. Prerequisites: Graduate standing.	LEC	3	3
ACCT	522	ADV AUDITING THEORY	Examines selected auditing topics and issues. Selected topics include ethical standards, audit objectives, planning, risk assessment, evaluation of internal control, selection and use of audit procedures, workpaper preparation and documentation, audit reports, and professional audit standards. Three hours lecture per week.	LEC	3	3
ACCT	553	SPECIAL TOPICS	This course addresses a variety of topics in accounting and allows the instructor to focus on appropriate current topics in the accounting profession. Students should contact the instructor prior to enrollment. Three hours lecture per week.	LEC	3	3
AEROSTUD	101	FOUND OF THE USAF 1	This survey course briefly covers topics relating to the Air Force and defense. It focuses on the structure and missions of Air Force organizations, officer ship and professionalism. It is also a good introduction into the use of communication skills. One hour lecture per week.	LEC	1	1
AEROSTUD	103	LEADERSHIP LAB	This course (to be taken in conjunction with AS 101 and 102) is a weekly laboratory that touches on the topics of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies.	LEC	0	0
AEROSTUD	201	EVOL OF USAF A&S PW1	This survey course is concerned with the beginnings of manned flight and the development of aerospace power in the United States, including the employment of air power in WWI, WWII, Korea, Vietnam, the Gulf War and the peaceful employment of U.S. air power in civic actions, scientific missions and support of space exploration. One hour lecture per week.	LEC	1	1
AEROSTUD	203	LEADERSHIP LAB	This course (to be taken in conjunction with AS 201 and 202) provides you with the opportunity to demonstrate fundamental management skills and prepares you for Field Training.	LEC	0	0
AEROSTUD	301	AF LEADERSHP STUDY 1	Teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication.	LEC	3	3
AEROSTUD	303	LEADERSHIP LAB	Application of leadership theory, individually and in groups. The course is designed to accomplish effective mission accomplishment, as well as an emphasis in communications skills development. Three hour weekly lab. Prerequisite: AEROSTUD.204 or permission of instructor.	LEC	0	0
AEROSTUD	401	NAT SEC AFF/PRE AD 1	Designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for Active Duty.	LEC	3	3

AEROSTUD	403	LEADERSHIP LAB	Application of leadership theory, individually and in groups. The course is designed to accomplish effective mission accomplishment, as well as an emphasis in communications skills development. Three hour weekly lab. Prerequisite: AEROSTUD.304 or permission of instructor and the AFROTC approved membership in the Professional Officer Corps.	LEC	0	0
ANTHRO	101	INTRO ANTHROPOLOGY	Introduces students to the discipline of General Anthropology. Focuses on the evolution of the human species, the human past as revealed through archaeology, the nature of human language and its relation to culture, and the diversity of cultures that exist in the world today. Open to all students; taught by lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 5 Natural Sciences and one GEP toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. May be offered in traditional and distance education formats. Prerequisite: None. Three hours lecture per week.	LEC	3	3
ANTHRO	102	ANTHRO & WORLD PROBS	Explores the origins of current global problems and evaluates a variety of cultural solutions to those problems, with the goal of developing a knowledge base and critical thinking skills to engage in reflection, decision-making, and action that leads to responsible global, national, and local citizenship. Open to all students, taught by lecture and discussion, and offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 6 Social Sciences and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
ANTHRO	200	PRIN CULT ANTHROP	Introduces the discipline of Cultural Anthropology and provides the student with a holistic understanding of human cultural diversity. Variations in human universal practices are presented, including adaptive strategies, subsistence systems, sociopolitical organization, economics, language, art, communication, kinship, family, marriage, gender, rituals, performance, and religion. Open to all students and serves as the foundation course for the anthropology major and minor. Taught by lecture and discussion and offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. Prerequisites: None.	LEC	3	3
ANTHRO	210	PREHIST ARCHAEOLOGY	Provides a worldwide examination of human prehistory from the origins of our species to the development of early civilizations. Focuses on regional differences and similarities in key evolutionary transitions including the adoption of agriculture and sedentary lifeways, urban origins, and the rise of complex states. Field methods are also discussed. Open to all students and serves as a foundation course for the anthropology major and minor; lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 5 Natural Sciences and one GEP toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3
ANTHRO	220	HUMAN ORIGINS	Studies the emergence and development of humans, ancient fossil evidence, the biological basis of human culture and society, and the origins of the social units of fossil hominids. A review of non-human primates and their behavior is also addressed. Open to all students. Serves as a foundation course for the anthropology major and minor; lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3

ANTHRO	221	FORENSIC ANTHRO	Explores the methods of physical anthropology and archaeology in the analysis of human skeletal remains resulting from unexplained deaths. Students will learn how race, sex, age, stature, and cause of death are determined from the human skeleton. Special attention will be paid to the cause and manner of death in fleshed bodies so that students will take away a general knowledge of forensic pathology. Open to all students; taught by lecture and discussion; offered on a rotating basis. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3
ANTHRO	230	FOUNDATIONS ANTHRO	Prepares students to advance in the major and as professional anthropologists by providing a common foundation in research methods, writing in the discipline, professional ethics, professional development, program requirements, and applications of anthropological knowledge. Offered fall semesters. Three hours lecture per week. Prerequisites: None.	SEM	3	3
ANTHRO	350	MEDICAL ANTHROPOLOGY	Studies of cross-cultural concepts of health, illness and curing as well as health care delivery in industrialized cultures. Includes the topics of divination and diagnosis, sorcery and witchcraft in healing, public health and preventive medicine, alcoholism and drug use and the medical knowledge of tribal and peasant societies. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. This course is approved as a Diversity General Education Course.	LEC	3	3
ANTHRO	475	FLD METH CULT ANTHRO	Provides class discussion and field experience in participant observation. Experience in interviewing, surveying, kinship charting, mapping, studying complex organizations and writing ethnographic field reports. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week.	SEM	3	3
ANTHRO	480	RELIGION & MAGIC		LEC	3	3
ARABIC	101	ARABIC I	Seeks to develop novice proficiency with emphasis on intercultural communication in the context of the Arabic world. Language laboratory activities required. Not offered every semester. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements/This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: None.	LEC	3	3
ARABIC	203	ARABIC 3	Continues the development of the four language skills in Arabic including speaking, listening, reading and writing, with a focus on Arabic cultures. The third course in the sequence of Arabic courses will strengthen communicative proficiency in Arabic as well as develop the ability to understand and appreciate Arabic cultures. The course includes a combination of lectures and activities, and students are required to produce formal and informal oral and written assignments. Open to all students and counts for a minor or a major in Languages and Cultures: Arabic Studies Track. This course earns one GEP toward Goal 1 Communication in general education and one GEP toward Goal 4 Cultures and Diversity in general education. Prerequisites: ARABIC.102 or the equivalent proficiency level. Offered once a year.	LEC	3	3
ARMY	110	INTRO MILIT SCIENCE	Provides an overview of the organization of the ROTC program. Students learn fundamental concepts of professional leadership in both classroom and field environments. Introduces skills such as rappelling, marksmanship, military customs, preparing military correspondence, and practical field training. One-hour class per week, approximately 20 hours of laboratory time per semester.	LEC	1	1

ARMY	210	APL LDRSHP & MGT I	Provides an overview of the Army rank structure and a specific survey of the junior officer's duties and responsibilities within that rank structure. Develops skills through oral presentations, writing concisely, planning events, and coordination of group efforts. Two-hour class per week, approximately 20 hours of professional development time per semester, and a minimum of six hours a week of physical fitness lab. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: ARMY 110 & 120 - or Instructor permission.	LEC	2	2
ARMY	310	ADV MILITARY SCI I	Students learn through a series of practical opportunities to lead groups, receive personal assessments and leading again in situations of increasing complexity. Students plan and conduct training for younger students to reach and develop leadership skills. One 3-hour class per week, approximately 20 hours of laboratory time per semester.	LEC	3	3
ARMY	331	US MIL SCI & HIST	Examines the military heritage of the United States from the colonial period to the late twentieth century. The goal of the course is to develop students' awareness of the relationship of the U.S. military establishment to American society. Further, the course will focus on the evolution of war and strategy and in the progression of military professionalism, with an emphasis of the history and purpose of joint operations, and discuss the role of history and heritage in understanding the Army profession. This is a required course for all cadets seeking a commission. Prerequisites: ARMY 110 - Intro Milit Science & ARMY 120 - Intro to Mil Issues - or Instructor permission.	LEC	3	3
ARMY	410	ADV LDRSHP & MGT I	Presents advanced leadership and management skills required of a manger in a military environment. Students plan, conduct, and evaluate activities of the ROTC cadet organization. Students articulate goals, put plans into action to attain them. One 3-hour class time, approximately 20 hours of laboratory time per semester.	LEC	3	3
ARTHSTRY	101	INTRO TO ART HIST	Examines major works of art and architecture and the cultural forces that shaped them from ancient times to the present, from a global perspective. This course will enhance students' understanding of cultural diversity through art appreciation. This course is appropriate for those seeking enrichment. The format is primarily lecture. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3
ARTHSTRY	235	ANC & MEDIEVAL ART	Surveys the history of the visual arts in Europe and the Mediterranean basin from the Paleolithic period to the Late Middle Ages. The course focuses on the connections between the development of artistic canons and humanistic and religious values from a global perspective. Lecture/discussion. Open to majors and non-majors. Typically offered in the fall semester. Three hours lecture per week. Prerequisites: None. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education.	LEC	3	3
ARTHSTRY	250	ARTS MANAGEMENT	Develops the practical skills required for the successful management of arts organizations. Topics include arts leadership, organizational structure, strategic planning, budgeting, and fundraising in arts organizations. Open to majors and non-majors who meet the prerequisite requirement. Three hours lecture per week. Prerequisites: One Art History course. This course earns two GEP's toward Goal 3 - Analytical and Quantitative Skills.	LEC	3	3

ARTHSTRY	330	GRECO-ROMAN WORLD	Examines the artistic cultures of the ancient Aegean, Ancient Greece and Ancient Rome. The course explores historical, political, and social motivations for the production of painting, sculpture and architecture in the Classical world. Lecture/discussion. Open to majors and non-majors. Typically offered every other year. Prerequisites are ENGLISH 101 and 30 credit hours or by permission of the instructor.	LEC	3	3
ARTHSTRY	346	EAST ASIAN ART	Examines the visual arts and culture of East Asia-including present-day China, Korea, and Japan-from the Neolithic period to modern times. The course explores the spread of Buddhist culture, the rise of painting and ceramic traditions, and the interplay of philosophical values and artistic styles. Lecture/discussion. Open to majors and non-majors. Typically offered in the spring semester. Prerequisites: None. Three hours lecture per week. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education.	LEC	3	3
ARTHSTRY	355	HIST OF MODERN ART	Traces the origins and full development of the period known as the modern and examines individual art works, artists, and their connections to social trends, theoretical ideas, and historical events. Lecture/discussion. Open to majors and non-majors. Typically offered in the fall semester. Prerequisites: None. Three hours lecture per week. This course earns three GEPs toward Goal 7 Arts and Humanities in general education.	LEC	3	3
ARTSTDIO	111	INTRO DRAWING	Examines the fundamentals of drawing and visual communication in general. Students learn and practice perceptual strategies, develop sensitivity to basic drawing materials, and become familiar with varied expressive methods of drawing via analysis of images from historical and contemporary art precedents, including non-Western traditions. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Introductory Drawing serves as a foundation requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None.	LAB	3	3
ARTSTDIO	153	ARTSTDIO FOUNDATIONS	Introduces visual communication, the elements and principles of design, and safe art studio practices through exploration of varied 2-dimensional, 3-dimensional and time-based media. Artistic expression and varied critical strategies are studied in contemporary and historical contexts including nonwestern contexts. Sessions include extended work with materials, individualized instruction, critique, demonstrations, and lecture. This course meets 5 hours per week. Homework assignments require 4-5 hours each week outside of class. Students are responsible for purchasing some materials for projects. Prerequisites: None.	LAB	3	3
ARTSTDIO	212	INTERM DRAWING	Examine and practice the language and techniques of drawing and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of drawing materials. Utilize varied expressive methods of drawing, and analyze images from historical and contemporary art precedents, including non-Western traditions. Learn color drawing methods, work with combinations of media, and create large-scale works. Locate and develop personal imagery and formal strategies. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Intermediate Drawing serves as a requirement for Art Studio majors concentrating in Drawing and as a second level art studio course option for Art Studio minors. This course meets five hours per week. Prerequisite: ARTSTDIO.111.	LAB	3	3

ARTSTDIO	223	FABR DESIGN:FBR ART	Investigates fiber art as a form of visual communication. Students explore the medium's expressive potential, use varied printing techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Course content includes studio art quilts, embellishment, Inkjet printing on fabric and wearable art. Studio sessions include extended work with fiber art materials, individual instruction and group critique, demonstrations, and lecture. Fabric Design: Fiber Art serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors, this course meets five hours per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None.	LAB	3	3
ARTSTDIO	231	INTRO PAINTING	Introduces the methods and materials of painting as a form of visual communication. Students learn and practice the medium's expressive potential, use varied paint application techniques, apply color theory, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with painting materials, individual instruction and group critique, demonstrations, and lecture. Introductory Painting serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication in general education and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None.	LAB	3	3
ARTSTDIO	232	INTERMEDIATE PAINTING	Continues exploration of the expressive and communicative potential of oil and/or acrylic painting. Varied subjects, critical approaches, and techniques are introduced. Independent research will lead to development of a unique body of work and coherent artist's statement. Studio sessions include demonstration, critique, individual instruction, and extended work sessions. This course meets 5 hours per week; students are expected to spend at least 4-5 hours per week on homework. While the studio provides some materials, students are responsible for purchasing some supplies for projects. Prerequisites: ARTSTDIO.231.	LAB	3	3
ARTSTDIO	243	SCULPT: WOOD & METAL	Focuses on additive sculpture methods using wood, and metal. The students learn varied construction techniques using the wood-working equipment (joinery, fastening, shaping) and metal-working equipment (welding, bending, cold fastening and cutting). Class assignments address contemporary concepts and foster personal expression. Students learn safe practices in the studio and fabricate sculptures based on the various techniques, history and concepts explained throughout the semester including non-western uses of wood and metal in object making. Studio sessions include technical instruction, studio work time, and development of concepts through research, class discussion, group critique and lecture. This course serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. Students can expect to purchase materials for individual assignments as well as personal protective equipment. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. This course meets five hours per week.	LAB	3	3

ARTSTDIO	244	SCULPT: THE FIGURE	Connects students with the history of figurative sculpture; the class explores several techniques that are used in the creation of figurative work. These will include but are not limited to, modeling in clay, mold making, and casting. Students will research how they can use the figure to relay conceptual ideas about contemporary life. Students will learn safe use of materials and tools relating to casting, mold making and modeling. The class will also address nonwestern figurative traditions in sculpture. Studio sessions include technical instruction, studio work time, and development of concepts through research, class discussion, group critique and lecture. This course serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. Students can expect to purchase materials for individual assignments as well as personal protective equipment. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. This course meets five hours per week.	LAB	3	3
ARTSTDIO	264	SILKSCREEN	Investigates silkscreen printmaking as a form of visual communication. Students learn and practice the medium's expressive potential, use varied printing techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with printmaking materials, individual instruction and group critique, demonstrations, and lecture. Printmaking: Silkscreen serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None.	LAB	3	3
ARTSTDIO	265	PRINTMAKING: ETCHING	Investigates intaglio printmaking as a form of visual communication. Students learn and practice the medium's expressive potential, use varied printing techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with printmaking materials, individuals instruction and group critique, demonstrations, and lecture. Printmaking: Intaglio serves as an interdisciplinary requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None.	LAB	3	3
ARTSTDIO	281	DIGITAL PHOTOGRAPHY	Introduces digital photography as a medium of visual expression. Technical emphasis is placed on fundamental camera controls and introduction to digital photographic techniques. Aesthetic analysis and theory are discussed. Studio sessions consist of critique, demonstration, lecture and individual instruction. Digital Photography serves as an interdisciplinary requirement within the Art Studio program, and as an introduction to creative work and visual argument for non-majors. There are no prerequisites for this course and it meets five hours per week. This course is offered every fall and spring term.	LAB	3	3
ARTSTDIO	295	INTRO GRAPHIC DESIGN	Introduces formal design standards and principles using current industry software applications. Emphasizes critical thinking, creative problem solving, communication strategies, copyright standards, experimentation, and personal expression. Studio sessions include demonstration, lecture, critique, individual instruction, and extended work sessions. Introductory Graphic Design serves as an interdisciplinary requirement for all Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 - Communication, one GEP toward Goal 2 - Information Literacy, and one GEP toward Goal 7 - Arts and Humanities in general education. There are no prerequisites. This course meets five hours per week. Prerequisites: NONE	LAB	3	3

ARTSTDIO	296	TYPE & LOGO DESIGN	Expands the skills and knowledge acquired in Introductory Graphic Design with additional emphasis on typography and logo design. Critical thinking skills, creative problem solving, communication strategy, interpersonal skills, and visual literacy are emphasized using digital applications and typography to create sophisticated graphics such as logo design, page layout and brand identity for Intermediate level students. Formal design standards and theory are emphasized. Studio sessions include demonstration, lecture, critique, individual instruction, and extended work sessions. Typography and Logo Design serves as an intermediate requirement for Art Studio majors concentrating in Graphic Design and an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal - Communication, one GEP toward Goal 2 - Information Literacy and one GEP toward Goal 7 - Arts and Humanities in general education. This course meets five hours per week. This course can be repeated one time for credit, if course was originally taken prior to Fall 2019. Prerequisites: ARTSTDIO 295 - Introductory Graphic Design or ARTSTDIO 291 - Introduction to Digital Art.	LAB	3	3
ARTSTDIO	313	ADV DRAWING	Examine and practice the language and techniques of drawing and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of drawing materials. Utilize varied expressive methods of drawing, and analyze images from historical and contemporary art precedents, including non-Western traditions. Develop a body of work that is individual, refined, and specific. Prepare for non-academic conditions in order to continue working after graduation. Further develop professional practices. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Advanced Drawing serves as a requirement for Art Studio majors concentrating in Drawing. This course meets five hours per week; students are expected to spend at least four - five hours per week on homework. While the studio provides some materials, students are responsible for purchasing supplies for some projects. This course may be repeated for credit. Prerequisites: ARTSTDIO.210 or ARTSTDIO.212.	LAB	3	3
ARTSTDIO	323	ADV FABRIC DESIGN	Students generate a new body of work stemming from intensive studio practice. Students develop a professional portfolio, a cohesive body of work in Fabric Design and are required to hold an exhibition of advanced work. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: Students must take at least two 200 level courses in Fabric Design before the Advanced level.	LAB	3	3
ARTSTDIO	333	ADVANCED PAINTING	Facilitates individualized painting projects that encourage personal expression. Students begin to develop a professional portfolio. This course may be taken more than once with permission of the instructor. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.232.	LAB	3	3
ARTSTDIO	343	ADVANCED SCULPTURE	Nurtures the development of a cohesive body of sculptural work based on sophisticated techniques and a maturing sense of aesthetic direction. This course stresses the importance of drawing, model making, and research to the creative process. Group and individual discussions emphasize the development of critical vocabulary along with advanced technical exploration. This course meets 5 hours per week. Homework assignments require students work 4-5 hours each week outside of class. Students are responsible for purchasing some art materials for the course. This course may be repeated for credit. Prerequisites: ARTSTDIO.242.	LAB	3	3

ARTSTDIO	363	ADVANCED PRINTMAKING	Examine and practice the language and techniques of printmaking and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of print media. Utilize varied expressive methods of printmaking, and analyze images from historical and contemporary art precedents, including non-Western traditions. Develop a body of work that is individual, refined, and specific. Prepare for non-academic conditions in order to continue working after graduation. Further develop professional practices. Studio sessions include extended independent work, individual instruction and group critique, demonstrations, and lecture. Advanced Printmaking serves as a requirement for Art Studio majors concentrating in Printmaking. This course meets five hours per week; students are expected to spend at least four- five hours per week on homework. While the studio provides some materials, students are responsible for purchasing supplies for some projects. This course may be repeated for credit. Prerequisites: Two courses in Printmaking (ARTSTDIO 263, 264, 265)	LAB	3	3
ARTSTDIO	376	SP TOPICS/ART STUDIO	Examines the language and techniques of an Art Studio discipline, and visual communication in general. This course introduces perceptual strategies and fosters the development of sensitivity to the application of materials and art media, encourages the use of varied expressive methods, and requires analysis of images from historical and contemporary art precedents, including non-western traditions. Strategies for locating and developing personal imagery and formal strategies are provided. Studio sessions include extended work on projects, individual instruction and group critique, demonstrations, and lecture. Special Topics in Art Studio serves as an elective for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course meets five hours per week. Homework assignments require students work 4-5 hours each week outside of class. Students are responsible for purchasing art materials for the course, the cost of which will vary, depending on Art Studio discipline. Prerequisites: None. This course earns one GEP toward Goal 1 communication and two GEPs toward Goal 7 Arts and Humanities in general education.	LAB	3	3
ARTSTDIO	383	ADVANCED PHOTOGRAPHY	Requires students to develop personal photographic projects to produce during the semester. Emphasizes individual exploration of black and white photographic materials and processes. Students must provide a 35 mm camera, film and paper. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.282.	LAB	3	3
ASLTERP	155	AMER SIGN LANG 1	Introduces students to communication in American Sign Language (ASL) as it is used within the American Deaf Community. Involves a study of vocabulary, grammar, fingerspelling, the history of ASL and its recognition as a language. The major focus will be the demonstration of beginning expressive and receptive conversational ASL skills. This course earns one GEP towards Goal 1 Communication and two GEP toward Goal 8 Second Language in general education. Prerequisites: None. Three hours lecture per week. May be offered in traditional or distance education formats.	LEC	3	3
ASLTERP	226	AMER SIGN LANG 2	Builds upon the content of ASL I with emphasis placed on more complex grammatical structures and conversational fluency. Students will demonstrate receptive and expressive skills above the basic level. This course is highly interactive where students' signing skills will be assessed. Prerequisite: ASLTERP 155 (American Sign Language I).	LEC	3	3
ASLTERP	257	AMER SIGN LANG 3	Builds upon the content of ASL II incorporating more complex grammatical structures, conversational fluency and conceptual accuracy. Demonstration of receptive and expressive skills to the intermediate level, including seeing multi-signer of diversity with sociolinguistic variation. Acquisition with more depth and longer conversation with sophisticated grammatical features of ASL. Increases amount of numbers and fingerspelling for comprehension. Also more fluency and accuracy of expressive fingerspelling and number too. Prerequisite: ASLTERP 226 (American Sign Language II)	LEC	3	3

ASLTERP	265	PRE-INTERP SKILLS	Practice skills that will prepare students linguistically, physically, and cognitively for the act of interpreting by employing intra-lingual skills in English and in ASL. Prerequisite: ASLTERP 226 (American Sign Language 2). May be offered as traditional or distance education.	LEC	3	3
ASLTERP	327	AMER SIGN LANG 4	Builds upon the content of ASL III with a focus on more advanced linguistic aspects of American Sign Language and syntheses of all concepts previously learned. Students learn to communicate and carry on a conversation with Deaf people. This course includes ASL vocabulary, grammatical structures and conversational behaviors. Special emphasis will be placed on the cultural values and beliefs shared by the Deaf Community. This class is conducted in ASL only. Prerequisite: ASLTERP 257 (American Sign Language III).	LEC	3	3
ASLTERP	328	TOPICS INTERP	Focuses on various issues related to interpreting for specialized populations and situations. Populations that present unique challenges for Sign Language interpreters include deaf individuals with minimal language skills (MLS), and working with certified deaf interpreters. Specialized situations and settings with demands to be addressed include interpreting for deaf people in mental health, medical, legal, and vocational rehabilitation settings, working in interpreting teams, and performance/platform interpreting. This course will consist primarily of lecture, discussion, guest speakers, demonstration, and role-plays. Prerequisites: ASLTERP.235 and ASLTERP.327. Three hours lecture per week.	LEC	3	3
ASLTERP	330	DEAF CULTURE	Introduces the unique aspects of Deaf Culture and Deaf Community within the context of human and cultural diversity. This course presents an in-depth discussion of historical, cultural, linguistic, political, and geographical aspects of the Deaf Community as well as identifies diversity of ideas and practices in society and its influence on society. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. May be offered in traditional or distance education formats. Prerequisites: None.	LEC	3	3
ASLTERP	331	FS AND NUMBERS	Enhances students' ability by teaching strategies and techniques to expressing clearly fingerspelled words and numbers as well as receptively understanding fingerspelled words and numbers. Prerequisites: ASLTERP 327 (American Sign Language 4).	LEC	3	3
ASLTERP	335	TRANSLATION	Translate frozen texts from English to American Sign Language and from American Sign Language to English through a variety of focused practice methods. Students will have time to work with and revise translations resulting in a polished ASL translation. Prerequisites: ASLTERP 226 (American Sign Language II).	LEC	3	3
ASLTERP	358	ASL 5	Continues in the development of ASL I-IV in developing a high level of fluency in American Sign Language. Students utilize both expressive and receptive skills in regular weekly communications with persons in the Deaf Community. The students learn idioms and expansion features as well as current events in the Deaf community and all around the world. Prerequisites: ASLTERP.327 ASL IV	LEC	3	3
ASLTERP	420	SIMULTANEOUS INTERP	Utilizes the foundation of consecutive skills in this practice-oriented course. Students will become skilled in simultaneously interpreting discourse from ASL to English and English to ASL with delays of a few seconds after the source utterance is finished. Prerequisite: ASLTERP.365 (Consecutive Interpreting).	LEC	3	3
ASLTERP	430	ED INTERPRETING	Apply techniques and methods specifically for interpreting for children in the K-12 educational setting as well as content related to post-secondary interpreting. Activities are hands-on in nature and students will be able to interpret in the educational setting. The course consists primarily of lecture, discussion, guest speakers, interpretation, and role-plays. Prerequisite: ASLTERP.420.	LEC	3	3

ASLTERP	450	INTERACTIVE INTERPRETING	Integrates interpreting skills previously developed in ASLTERP 365 Consecutive Interpreting. The students will be able to identify when to use ASL versus contact signing, incorporating strategies to clearly convey English content, and to match the consumer's language preference during interactive interpreting settings. This course will consist primarily of lecture, discussion, guest speakers, interactive interpretation, and role-plays. Prerequisites: ASLTERP 365 - Consecutive Interpreting.	LEC	3	3
BIOLOGY	100	CELLS GENE MOLECULE	Presents basic concepts and unifying themes of biological science from the cellular, genetic and molecular levels. Discusses how biological data and ideas affect our lives. Not applicable to majors in biology or health sciences. Prerequisites: None. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. May be offered online or on campus.	LEC	3	3
BIOLOGY	101	HUMAN BIOLOGY	Presents basic concepts and unifying themes of biology relating to humans. This course introduces non-majors to the scientific method, hierarchical organization of the human body, interrelationships between humans and the environment, organ systems, and human health-related issues. Not applicable to majors in biology or health sciences. Prerequisites: None. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. Also offered online.	LEC	3	3
BIOLOGY	102	ECOLOGY & EVOLUTION	Presents basic concepts and unifying themes in ecological and evolutionary biology. Scientific and social applications of ecological and evolutionary theory will be stressed. Not applicable to majors in biology or health sciences. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. Prerequisites: None.	LEC	3	3
BIOLOGY	103	BIODIVERSITY CONSERV	Presents scientific and societal perspectives of the current global mass extinction and loss of biodiversity. Also, this course introduces the field of conservation biology, a discipline dedicated to conserving all levels of biodiversity for both human and non-human benefit. This course will explore patterns of past and current biodiversity, processes that produce biodiversity and the processes that lead to natural and anthropogenic extinction events. This course is a general education course open to all students and earns two GEPs toward Goal 5 Natural Sciences and one GEP toward Goal 10 Citizenship in general education. Prerequisite: none. Three hours of lecture/discussion per week. Not offered every semester.	LEC	3	3
BIOLOGY	105	BAHS FRESHMAN SEM	Presents skills and strategies for a successful transition to college life for first-year Biological and Allied Health Science students. The course acquaints students with academic expectations and professional opportunities. One hour of lecture and discussion per week. Offered fall semesters. Prerequisites: None.	LEC	1	1
BIOLOGY	114	CONCEPTS BIOLOGY 1	Provides a framework of key biological concepts and unifying themes. Topics include the nature and process of science, the unity and diversity of living things, the chemical basis of life, cell structure and function, principles of inheritance and animal form and function. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis and interpretation. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture/three hours laboratory per week.	LAB	4	4
BIOLOGY	114	CONCEPTS BIOLOGY 1	Provides a framework of key biological concepts and unifying themes. Topics include the nature and process of science, the unity and diversity of living things, the chemical basis of life, cell structure and function, principles of inheritance and animal form and function. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis and interpretation. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture/three hours laboratory per week.	LEC	4	4

BIOLOGY	115	CONCEPTS BIOLOGY 2	Presents key biological concepts in an evolutionary framework. Topics include plant form and function: population, community, and ecosystem ecology; evolution (including population genetics, macroevolution, and human evolution); and an introduction to principles of systematics. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis, and interpretation as well as written and oral communication skills. This course is the second in a sequence of two introductory core courses for Biology majors. Prerequisite: BIOLOGY 114 (Concepts in Biology 1). Three hours of lecture and three hours of lab per week.	LAB	4	4
BIOLOGY	115	CONCEPTS BIOLOGY 2	Presents key biological concepts in an evolutionary framework. Topics include plant form and function: population, community, and ecosystem ecology; evolution (including population genetics, macroevolution, and human evolution); and an introduction to principles of systematics. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis, and interpretation as well as written and oral communication skills. This course is the second in a sequence of two introductory core courses for Biology majors. Prerequisite: BIOLOGY 114 (Concepts in Biology 1). Three hours of lecture and three hours of lab per week.	LEC	4	4
BIOLOGY	173	ANATOMY PHYSIOL 1	Provides an introductory course integrating the structure and function of the human body. This portion covers: fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. This course is a required course for students majoring in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and 3 hours of laboratory per week.	LAB	4	4
BIOLOGY	173	ANATOMY PHYSIOL 1	Provides an introductory course integrating the structure and function of the human body. This portion covers: fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. This course is a required course for students majoring in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and 3 hours of laboratory per week.	LEC	4	4
BIOLOGY	174	ANATOMY PHYSIOL 2	Provides an introductory course integrating the structure and function of the human body. This portion covers: endocrine system, blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, reproductive system, and growth and development. This course is a required course for majors in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIO 173 - Anatomy and Physiology.	LAB	4	4
BIOLOGY	174	ANATOMY PHYSIOL 2	Provides an introductory course integrating the structure and function of the human body. This portion covers: endocrine system, blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, reproductive system, and growth and development. This course is a required course for majors in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIO 173 - Anatomy and Physiology.	LEC	4	4

BIOLOGY	205	INTRO TO NUTRITION	Provides a foundation of facts, concepts, and theories in the science of nutrition for all students, regardless of academic major. The nutritional information presented can be applied to personal lives and incorporated into the career of students. Examples include nutritional requirements to assure optimal health and physical performance throughout life and analyzing nutrition information in the media or the marketplace. Three hours of lecture per week. This course earns two GEPs toward Goal 9 Healthy Living in general education. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
BIOLOGY	208	MEDICAL TERMINOLOGY	Studies origins, construction and application of medical language used in health professions. The course offers a word building system approach, a vocabulary of medical terms, abbreviations, symbols related to the body systems and interpretation of case studies and medical histories in order to develop effective communicative skills within diverse medical specialties. The course is designed to increase students' familiarity of medical language terms through a review of body systems and broad-based clinical applications. Prerequisites: Biology.173 and major in either Health Sciences or Medical Imaging. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 8 Second Language in general education.	LEC	3	3
BIOLOGY	233	HUMAN GENETICS	Provides the student with a basic foundation in human genetics. Fundamental principles of classical and molecular genetics are presented with a focus on their application to human inheritance and human disease. The social and ethical issues raised by progress in medical genetics are evaluated and discussed. This course is for Biology and Allied Health Sciences majors. Prerequisites: one of the following: BIOLOGY 114 and BIOLOGY 115, or BIOLOGY 173. The course meets for three hours lecture/discussion per week..	LEC	3	3
BIOLOGY	240	INTROD MICROBIOLOGY	Presents an overview of the morphology, metabolism, cultivation and control of bacteria, viruses and other microorganisms with emphasis on public health aspects. Applied topics will include bioterrorism, epidemiology, food safety, immunology and infectious diseases. Not applicable to majors or minors in biology or health sciences. Three hours lecture and two hours laboratory per week. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LAB	3	3
BIOLOGY	240	INTROD MICROBIOLOGY	Presents an overview of the morphology, metabolism, cultivation and control of bacteria, viruses and other microorganisms with emphasis on public health aspects. Applied topics will include bioterrorism, epidemiology, food safety, immunology and infectious diseases. Not applicable to majors or minors in biology or health sciences. Three hours lecture and two hours laboratory per week. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LEC	3	3
BIOLOGY	242	MICROBIOLOGY	Introduces the fundamental principles of taxonomy, microscopy, cell structure, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are examined along with the discussion of the role microbes play in the ecosystem, in public health, and in industry. This course is required for Biology and Health sciences majors. Prerequisites: BIOLOGY 114 (Concepts in Biology 1) and CHEM 115 (Chemistry for the Sciences 1); and either BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 173 (Anatomy and Physiology 1). Three hours of lecture and three hours of laboratory per week.	LAB	4	4
BIOLOGY	242	MICROBIOLOGY	Introduces the fundamental principles of taxonomy, microscopy, cell structure, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are examined along with the discussion of the role microbes play in the ecosystem, in public health, and in industry. This course is required for Biology and Health sciences majors. Prerequisites: BIOLOGY 114 (Concepts in Biology 1) and CHEM 115 (Chemistry for the Sciences 1); and either BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 173 (Anatomy and Physiology 1). Three hours of lecture and three hours of laboratory per week.	LEC	4	4

BIOLOGY	253	FRESHWATER BIOLOGY	Surveys organisms inhabiting freshwater lakes, ponds and streams and an introduction to the chemical and physical factors that control their abundance and distribution. There are lecture, laboratory and field components to this course. Elective for certain biology majors. Prerequisite: BIOLOGY 115 (Concepts in Biology 2). Two hours of lecture, 3 hours of laboratory/field per week. Not offered every semester.	LAB	3	3
BIOLOGY	253	FRESHWATER BIOLOGY	Surveys organisms inhabiting freshwater lakes, ponds and streams and an introduction to the chemical and physical factors that control their abundance and distribution. There are lecture, laboratory and field components to this course. Elective for certain biology majors. Prerequisite: BIOLOGY 115 (Concepts in Biology 2). Two hours of lecture, 3 hours of laboratory/field per week. Not offered every semester.	LEC	3	3
BIOLOGY	271	CELL BIOLOGY	Examines the structure and function of the cell and its organelles. Emphasis is placed on general principles and processes by which all cells function. This course is a required course for majors in B.S. Biology, B.S. Health Sciences, and certain options in B.A. biology. Three hours lecture/three hours laboratory per week. Prerequisites: BIO 114 (Concepts in Biology 1), CHEM 115 (Chemistry for the Sciences 1), and either BIO 115 (Concepts in Biology 2) or BIO 173 (Anatomy and Physiology 1).	LAB	4	4
BIOLOGY	271	CELL BIOLOGY	Examines the structure and function of the cell and its organelles. Emphasis is placed on general principles and processes by which all cells function. This course is a required course for majors in B.S. Biology, B.S. Health Sciences, and certain options in B.A. biology. Three hours lecture/three hours laboratory per week. Prerequisites: BIO 114 (Concepts in Biology 1), CHEM 115 (Chemistry for the Sciences 1), and either BIO 115 (Concepts in Biology 2) or BIO 173 (Anatomy and Physiology 1).	LEC	4	4
BIOLOGY	303	HEALTH SCI SEMINAR	Presents issues, policies, procedures, and considerations in a variety of health science fields. This course introduces students to standard procedures regarding the ethical use, distribution, and communication of protected and confidential information. Students will learn about centralized application procedures and prepare application materials. This is an undergraduate course required for B.S. Health Sciences majors (except MLS option) and serves as a free elective for B.S. Biology Pre-med majors. One hour of lecture/discussion per week. Prerequisites: BS Health Sciences Major or BS Biology Pre-Med Major and completion of 60 credits.	LEC	1	1
BIOLOGY	332	GENETICS	Addresses mechanisms of heredity in animals and plants, Mendelian inheritance, linkage, probability, crossing over, chromosomal modifications, nucleic acids, gene action, and genes in populations. The course is an upper-level course for biology majors and is presented in a series of lectures and discussions, of text book and problem assignments, and of laboratory experiments. The course is a core component in some of the biological and allied health degree programs and is an elective in others. Prerequisite: BIOLOGY 271 (Cell Biology). Three hours lecture and two hours of laboratory per week. Laboratory hours will vary.	LAB	3	3
BIOLOGY	332	GENETICS	Addresses mechanisms of heredity in animals and plants, Mendelian inheritance, linkage, probability, crossing over, chromosomal modifications, nucleic acids, gene action, and genes in populations. The course is an upper-level course for biology majors and is presented in a series of lectures and discussions, of text book and problem assignments, and of laboratory experiments. The course is a core component in some of the biological and allied health degree programs and is an elective in others. Prerequisite: BIOLOGY 271 (Cell Biology). Three hours lecture and two hours of laboratory per week. Laboratory hours will vary.	LEC	3	3

BIOLOGY	333	MOLECULAR BIOLOGY	Introduces the practical and theoretical aspects of molecular biology. The focus will be on the identification and analysis of recurring molecular motifs in the flow and regulation of information in biological systems. This course is for Biology and Allied health Sciences majors. Prerequisites: BIOLOGY 271 (Cell Biology). The course meets for three hours of lecture/discussion per week.	LEC	3	3
BIOLOGY	343	IMMUNOLOGY	Introduces components and functions of human immune system with application to infectious disease, organ transplantation and cancer. Additionally, conditions involving the immune system such as immunodeficiencies (including AIDS), allergies and autoimmune diseases are covered. This is an upper-level elective course for Biology and Allied Health Science majors. The prerequisite is BIOLOGY 271; a background in biochemistry, genetics or medical bacteriology is recommended. Three hours of lecture and discussion per week. Not offered every semester.	LEC	3	3
BIOLOGY	351	ECOLOGY	Presents the scientific study of organisms and the environment. This course surveys organismal ecology, population dynamics, community interactions, ecosystem function, and evolutionary ecology. The lab portion of the course is field-based. This course is an upper-level core course for Biology majors. Prerequisite: BIOLOGY.115 (Concepts in Biology 2). Three hours of lecture and three hours of lab per week. Offered fall semesters.	LAB	4	4
BIOLOGY	351	ECOLOGY	Presents the scientific study of organisms and the environment. This course surveys organismal ecology, population dynamics, community interactions, ecosystem function, and evolutionary ecology. The lab portion of the course is field-based. This course is an upper-level core course for Biology majors. Prerequisite: BIOLOGY.115 (Concepts in Biology 2). Three hours of lecture and three hours of lab per week. Offered fall semesters.	LEC	4	4
BIOLOGY	364	VERTEBRATE HISTOLOGY	Surveys the structure and function of vertebrate cells and tissues from various body systems. Laboratory studies include the use of prepared microscope slides and color photomicrographs. This is an elective for Biology and Allied health Science majors; the course is open to other students meeting the prerequisite. Prerequisite: BIOLOGY 271 (Cell Biology). Two hours of lecture, 3 hours of laboratory per week. Not offered every semester.	LAB	3	3
BIOLOGY	364	VERTEBRATE HISTOLOGY	Surveys the structure and function of vertebrate cells and tissues from various body systems. Laboratory studies include the use of prepared microscope slides and color photomicrographs. This is an elective for Biology and Allied health Science majors; the course is open to other students meeting the prerequisite. Prerequisite: BIOLOGY 271 (Cell Biology). Two hours of lecture, 3 hours of laboratory per week. Not offered every semester.	LEC	3	3
BIOLOGY	430	EVOLUTION	Presents the principles of biological evolution, drawing from genetics, genomics, paleontology, systematics and ecology. This course is an elective course for Biology and Health Science majors. Prerequisites: BIOLOGY 271 (Cell Biology) and BIOLOGY 233 (Human Genetics) or BIOLOGY 332 (Genetics). Three hours of lecture per week. Not offered every semester.	LEC	3	3

BIOLOGY	433	MOL BIO LAB	Develops fundamental molecular biology techniques that are used in all branches of biology. Molecular techniques are instructed in the context of a semester-long research project in a research laboratory setting. Students begin their research projects with isolation of DNA and perform molecular techniques that purify, amplify, engineer, clone, and sequence nucleic acids to study their isolates. Research projects require group work and additional time outside of laboratory to maintain bacterial cultures. Three hours laboratory per week. Not offered every semester. Prerequisites: BIOLOGY 271 - Cell Biology and BIOLOGY 333 - Molecular Biology (pre- or co-requisite)	LAB	1	1
BIOLOGY	445	PHARMACOLOGY HLTH SC	Presents common drugs used in a healthcare setting. Basic principles of pharmacology and medication are covered. Commonly prescribed drug groups are discussed, specifically addressing the drug's effects on physiology and disease. This is an upper-level course for Biology and Allied Health Science majors. Prerequisites: BIOLOGY 271 (Cell Biology) and BIOLOGY 174 (Anatomy and Physiology 2); or BIOLOGY 474 (Human Physiology). Three hours lecture and discussion per week. Not offered every semester.	LEC	3	3
BIOLOGY	456	STREAM ECOLOGY	Examines recent advances in stream and river ecology. Topics include hydrogeomorphology, connections between terrestrial and aquatic components of watersheds, trophic dynamics, biogeochemistry, disturbance, conservation and management. The target audience is upper-level environmental biology and general biology majors. Prerequisites: BIOLOGY 253 or BIOLOGY 351. Not offered every semester.	LEC	3	3
BIOLOGY	474	HUMAN PHYSIOLOGY	Studies the major organ systems of the human body at the biochemical, cellular and organ levels; as well as emphasizing how the functions of individual organs systems are integrated with each other to maintain body conditions compatible with life. Systems covered include: endocrine, nervous, cardiovascular, respiratory, muscular and urinary systems. The immune, blood, and reproductive systems are not covered. This is an upper-level core course for Biology and Allied Health Science majors. BIOLOGY 271, or permission of the instructor. Three hours lecture and discussion per week.	LEC	3	3
BIOLOGY	474	HUMAN PHYSIOLOGY	Studies the major organ systems of the human body at the biochemical, cellular and organ levels; as well as emphasizing how the functions of individual organs systems are integrated with each other to maintain body conditions compatible with life. Systems covered include: endocrine, nervous, cardiovascular, respiratory, muscular and urinary systems. The immune, blood, and reproductive systems are not covered. This is an upper-level core course for Biology and Allied Health Science majors. BIOLOGY 271, or permission of the instructor. Three hours lecture and discussion per week.	LEC	3	3
BIOLOGY	476	NEUROPHYSIOLOGY	Examines normal physiology of the nervous and skeletal muscular systems; specifically studying cellular neurophysiology, sensory physiology, motor control and their integration. This is an upper-level elective course for Biology and Allied Health Science majors. Prerequisites: BIOLOGY 271 (Cell Biology) and BIOLOGY 174 (Anatomy and Physiology 2); or BIOLOGY 474 (Human Physiology), or BIOLOGY 480 (Comparative Animal Physiology). Three hours of lecture/discussion per week. Not offered every semester.	LEC	3	3
BIOLOGY	479	INTEGRATED PHYS LAB	Provides hands-on investigations of physiological principles across taxonomic groups and all organizational levels. The laboratory investigates evolutionary adaptations to various physical problems and reinforces awareness of the unity of living systems. Emphasis is placed on the application of the scientific method and provides opportunities for independent investigation. This is an upper-level core course for Biology and Health Sciences majors. Prerequisites: BIOLOGY 271 (Cell Biology); and (either as a prerequisite or concurrent) BIOLOGY 472 (Animal Cell Physiology), or BIOLOGY 474 (Human Physiology), or BIOLOGY 477 (Plant Physiology), or BIOLOGY 480 (Comparative Animal Physiology). Three hours laboratory per week, plus additional out of class assignments and/or quizzes.	LAB	1	1

BIOLOGY	530	EVOLUTION	Presents the principles of biological evolution, drawing from genetics, genomics, paleontology, systematics and ecology. This course is an elective course for Biology and Health Science majors. Prerequisite: Admission to the M.S. program in Biology. Three hours of lecture per week. Offered summer and fall semesters.	LEC	3	3
BIOLOGY	533	MOL BIO LAB	Develops fundamental molecular biology techniques that are used in all branches of biology. Molecular techniques are instructed in the context of a semester-long research project in a research laboratory setting. Students begin their research projects with isolation of DNA and perform molecular techniques that purify, amplify, engineer, clone, and sequence nucleic acids to study their isolates. Research projects require group work and additional time outside of laboratory to maintain bacterial cultures. Graduate students will mentor undergraduate students as part of their learning process. Three hours of laboratory per week. Not offered every semester. Prerequisites: Admission to MS Biology Program.	LEC	1	1
BIOLOGY	556	STREAM ECOLOGY	Examines recent advances in stream and river ecology. Topics include hydrogeomorphology, connections between terrestrial and aquatic components of watersheds, trophic dynamics, biogeochemistry, disturbance, conservation and management. The target audience is upper-level environmental biology and general biology majors. The target audience is Biology M.S. students. Not offered every semester.	LEC	3	3
BIOLOGY	576	NEUROPHYSIOLOGY	Examines normal physiology of the nervous, and skeletal muscular systems; specifically studying cellular neurophysiology, sensory physiology, motor control and their integration. This is an upper-level elective course for Biology and Allied Health Science majors. Prerequisite: Admission to the M.S. program in biology. Three hours of lecture/discussion per week. Not offered every semester.	LEC	3	3
BIOLOGY	587	REDESIGNING LIFE	Critically examines the specialized topics of genetic engineering and genome editing technologies in a lecture/seminar format. Will include discussions of the history and current developments in intentionally altered genomic DNA in microbes, plants, animals, and humans, along with applications to research, industry, agriculture and medicine. Two hours of lecture/seminar per week. This is a course for graduate students who are taking the co-requisite BIOLOGY 533 - Molecular Biology Laboratory concurrently. Prerequisite: Admission to the MS Program in Biology. Not offered every semester.	LEC	2	2
BIOLOGY	593	MASTER OF SCI THESIS	Research and independent preparation of a formal thesis in partial fulfillment of the requirements for the Thesis Option within the Master of Science degree in Biology. May be enrolled in successive semesters for varying amount of credit, but no more than 6 credit hours applied toward satisfying the requirements for the Master of Science degree (Thesis Option) in Biology. Prerequisite: Admission to Candidacy for the Master of Science in Biology.	THE	1	9
BUSED	101	INTRO TO BUSINESS	Studies business and its environment, organization, operation, and the interrelationships with government and society. Business majors develop a broad base for further study in a specific area in business, while other majors will become familiar with the American enterprise system and issues facing business in today's global environment. May be offered in traditional and distance education formats. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3

BUSED	333	BUS COMM & RPT WRTG	Applies theories and principles of effective communication to solve common business problems. Psychological and organizational strategies will be used in the writing of business reports and other documents. This course is a required general education course for all Zeigler College of Business majors and cannot be used as a business elective except for non-Zeigler College of Business majors. Three hours lecture per week. Prerequisites: 45 credit and ENGLISH.101. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education.	LEC	3	3
BUSED	402	INST STRAT-ASMT BCIT	This course emphasizes a variety of instructional strategies and assessment techniques for teaching business, computer and information technology courses. Prerequisites: Admission to teacher education program, Overall 3.0 GPA, schedule concurrently with BUSED 403. Three hours lecture per week.	LEC	3	3
BUSED	403	BCIT FIELD EXPER	Initiates an awareness of the teaching and learning atmosphere of the professional teacher in the classroom. Students provided opportunities to undertake the responsibilities assigned to a classroom teacher, including assuming some of the teaching role competencies. Must be scheduled the semester prior to student teaching. Prerequisite: Prerequisites: Admission to teacher education program, Overall 3.0 GPA, schedule concurrently with BUSED 402.	FLD	1	1
BUSED	501	INTRO TO BUSINESS ED	Introduces students to the competencies necessary for teaching Business Education at the K-12 level, two-year postsecondary, community or technical college. Each of the National Standards for Business Education (NBEA) will be discussed, which include: Accounting, Business Law, Career Development, Communication, Economics, Personal Finance, Entrepreneurship, Information Technology, International Business, Management and Marketing. Students will create lesson plans and ancillary materials for each of the business education competencies incorporating the National Business Education Standards. Students will observe elementary and middle school business and technology classes for 30 hours. May be offered in traditional and distance education formats. This course is required for the Master of Education in Business Education (M.Ed.). Prerequisites: Graduate standing or minimum of 90 credits in undergraduate courses. May be offered in traditional and distance education formats. Prerequisites: Graduate standing or a minimum of 90 credits in undergraduate courses and approval of Graduate Dean.	LEC	3	3
BUSED	502	INST STRAT-ASMT BCIT	Emphasizes a variety of instructional strategies and assessment techniques for teaching business, computer and information technology courses. Focus on developing engaging and active lesson plans that are student-centered and improve student learning. Student will design assessments and learning activities that involve collaborative learning techniques as well as assessment measurement tools. Various topics will include the four domains of professional practice and classroom management methods. Prerequisites: Graduate standing and admission into Teacher Education Certification in Business Computer Information Technology (BCIT). Taken concurrently with BUSED.503. May be offered in traditional and distance education formats.	LEC	3	3
BUSED	503	BCIT FIELD EXPER	Initiates an awareness of the teaching and learning atmosphere of the professional teacher in the classroom. Students provided opportunities to undertake the responsibilities assigned to a classroom teacher, including assuming some of the teaching role competencies. Must be scheduled the semester prior to student teaching. Prerequisites: Admission to teacher education program, Overall 3.0 GPA, scheduled concurrently with BUSED 502 - Instructional Strategies and Assessment in BCIT.	FLD	1	1

CHEM	100	CHEM & THE CITIZEN	Introduces chemistry principles and the relevance of chemistry to the non-scientist. Themes for the course vary by instructor. Example themes include: chemistry and the environment, chemistry of food, and chemistry in human health. Although no previous experience with chemistry is required, students may be expected to do arithmetic and/or simple algebra. This course does not serve as a prerequisite for other chemistry courses and is not intended for science majors. This course earns three GEPs toward Goal 5 Natural Sciences in general education. May be offered in traditional and distance education formats. Prerequisites: None. Three hours of class per week.	LEC	3	3
CHEM	101	INTRO CHEMISTRY	Presents an introduction to chemistry for students with little or no previous chemical background. Develops the principles of chemistry from the ground level with an approach to meet the needs of students for general education and allied health emphasis including nursing. This course is not intended to be a beginning course for science majors. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three Hours Lecture Per week.	LEC	3	3
CHEM	105	INTRO FORENSIC SCI	Uses a case-oriented approach to explore selected topics of forensic science. These include: (1) the scientific and technological foundation for the examination of physical, chemical, and biological items of evidence, and (2) the scope of expert qualifications and testimony, the legal status of scientific techniques, and the admissibility of the results in evidence. This course is designed for students with an interest in forensic science. The course meets for one hour of lecture and three hours of laboratory per week. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LAB	3	3
CHEM	105	INTRO FORENSIC SCI	Uses a case-oriented approach to explore selected topics of forensic science. These include: (1) the scientific and technological foundation for the examination of physical, chemical, and biological items of evidence, and (2) the scope of expert qualifications and testimony, the legal status of scientific techniques, and the admissibility of the results in evidence. This course is designed for students with an interest in forensic science. The course meets for one hour of lecture and three hours of laboratory per week. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LEC	3	3
CHEM	114	QUANT FOUND CHEM	Presents a review of mathematics applications in chemistry, including dimensional analysis, algebra, and proportional thinking. Develops the principles of chemistry from the ground level with an approach to meet the needs of students identified as not prepared to successfully complete CHEM 115 - Chemistry for the Sciences 1. Three hours lecture per week. This course serves as a prerequisite to CHEM 115. This course is not open to students who have earned a C or better in CHEM 115. Prerequisites: None.	LEC	3	3
CHEM	115	CHEM FOR SCIENCES 1	Introduces and develops qualitative and quantitative concepts in chemistry essential for further study in chemistry and application to other science disciplines. Topics include the elements' atomic and periodic properties, chemical compound types and properties, chemical reaction types, chemical stoichiometry, molecular geometry determination and relation to properties, physical properties of states of matter, qualitative acid-base behavior, and inter-particle forces. Three hours per week class plus three hours per week laboratory. First course in chemistry for all physical and biological science majors. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: ALEKS score of 61 or MATH 109 or MATH 116. High school chemistry highly recommended.	LAB	4	4

CHEM	115	CHEM FOR SCIENCES 1	Introduces and develops qualitative and quantitative concepts in chemistry essential for further study in chemistry and application to other science disciplines. Topics include the elements' atomic and periodic properties, chemical compound types and properties, chemical reaction types, chemical stoichiometry, molecular geometry determination and relation to properties, physical properties of states of matter, qualitative acid-base behavior, and inter-particle forces. Three hours per week class plus three hours per week laboratory. First course in chemistry for all physical and biological science majors. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: ALEKS score of 61 or MATH 109 or MATH 116. High school chemistry highly recommended.	LEC	4	4
CHEM	116	CHEM FOR SCIENCES 2	Develops qualitative and quantitative concepts in chemistry essential for further study in higher level chemistry and application to other science disciplines. Topics include the colligative properties of solutions, chemical kinetics, equilibrium and acid-base behavior, thermochemistry and thermodynamics, and electrochemistry. Second course in chemistry for all physical and biological science majors. This course earns two GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three hours per week class plus three hours per week laboratory. Prerequisites: Grade of C or better in CHEM.115.	LAB	4	4
CHEM	116	CHEM FOR SCIENCES 2	Develops qualitative and quantitative concepts in chemistry essential for further study in higher level chemistry and application to other science disciplines. Topics include the colligative properties of solutions, chemical kinetics, equilibrium and acid-base behavior, thermochemistry and thermodynamics, and electrochemistry. Second course in chemistry for all physical and biological science majors. This course earns two GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three hours per week class plus three hours per week laboratory. Prerequisites: Grade of C or better in CHEM.115.	LEC	4	4
CHEM	231	ORGANIC CHEMISTRY 1	Emphasizes structure and bonding, stereochemistry, nomenclature, physical and chemical properties and modern spectroscopy of alkanes, haloalkanes, alcohols and ethers. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.116.	LAB	4	4
CHEM	231	ORGANIC CHEMISTRY 1	Emphasizes structure and bonding, stereochemistry, nomenclature, physical and chemical properties and modern spectroscopy of alkanes, haloalkanes, alcohols and ethers. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.116.	LEC	4	4
CHEM	232	ORGANIC CHEMISTRY 2	A continuation of organic topics, building on those covered in CHEM.231. Spectroscopy and the applications toward structure determination are introduced. Emphasizes reaction mechanisms, stereochemistry, syntheses and analyses of representative compounds. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.231.	LAB	4	4
CHEM	232	ORGANIC CHEMISTRY 2	A continuation of organic topics, building on those covered in CHEM.231. Spectroscopy and the applications toward structure determination are introduced. Emphasizes reaction mechanisms, stereochemistry, syntheses and analyses of representative compounds. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.231.	LEC	4	4

CHEM	321	ANALYTICAL CHEM 1	Introduces fundamental principles of chemical analysis utilizing classical wet chemistry and modern instrumental techniques. This course stresses laboratory skills in the analysis of common commercial or environmental materials including unknown samples. Three hours of lecture and 4 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 116 or permission of the instructor.	LAB	4	4
CHEM	321	ANALYTICAL CHEM 1	Introduces fundamental principles of chemical analysis utilizing classical wet chemistry and modern instrumental techniques. This course stresses laboratory skills in the analysis of common commercial or environmental materials including unknown samples. Three hours of lecture and 4 hours of laboratory per week. Prerequisite: Grade of C or better in CHEM 116 or permission of the instructor.	LEC	4	4
CHEM	341	BIOCHEMISTRY 1	Emphasizes the structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Introduces the biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week. This course earns one GEP toward Goal 1 Communication in general education. Prerequisites: CHEM.116 and either CHEM.230 or CHEM.232.	LAB	4	4
CHEM	341	BIOCHEMISTRY 1	Emphasizes the structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Introduces the biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week. This course earns one GEP toward Goal 1 Communication in general education. Prerequisites: CHEM.116 and either CHEM.230 or CHEM.232.	LEC	4	4
CHEM	361	PHYSICAL CHEMISTRY 1	Studies thermodynamics; Gibbs free energy and equilibrium; kinetic theory of gases and solutions; chemical kinetics. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: CHEM.115, CHEM.116, MATH.225, and PHYSICS.212.	LAB	4	4
CHEM	361	PHYSICAL CHEMISTRY 1	Studies thermodynamics; Gibbs free energy and equilibrium; kinetic theory of gases and solutions; chemical kinetics. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: CHEM.115, CHEM.116, MATH.225, and PHYSICS.212.	LEC	4	4
CHEM	452	ADV INORGANIC CHEM	Theories and principles of inorganic chemistry coordination chemistry, organometallic chemistry, systematic analysis of periodic relationships and properties of important elements. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: CHEM.251 and CHEM.362.	LAB	4	4
CHEM	452	ADV INORGANIC CHEM	Theories and principles of inorganic chemistry coordination chemistry, organometallic chemistry, systematic analysis of periodic relationships and properties of important elements. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: CHEM.251 and CHEM.362.	LEC	4	4
CHINESE	101	CHINESE I	Basic elements of Mandarin Chinese, with emphasis on spoken language, tonal system, and basic writing. Introduces the Chinese culture. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements/This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Requires practice sessions in language lab. May be offered in traditional and distance education formats.	LEC	3	3

CHINESE	102	CHINESE 2	Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in Chinese. CHINESE.102 is for students who wish to continue studying Chinese at the second level. Chinese language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. CHINESE.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: CHINESE.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school Chinese.	LEC	3	3
CHINESE	203	CHINESE 3	Develops communication skills in speaking, listening, reading, and writing in cultural context to the intermediate-mid level of proficiency upon the conclusion of the course. Course content is presented in communicative, culturally contextualized activities. Offered once a year. Intended for students who have completed CHINESE 102 or equivalent. CHINESE 203 is a required course for the Chinese Major and Minor, but is open to all students. Course carries 2 GEPs toward General Education Goal 1 - Communication.	LEC	3	3
CLE	101	LEADERSHIP CERT	Offers an intensive series of educational leadership-based workshops, lectures, service projects, conferences, and integrative learning opportunities. The mission of the Center for Leadership & Engagement is to facilitate and provide intentional opportunities by supporting and providing resources for student growth, development, involvement and learning through leadership education, engagement, and service. By participating in the Leadership Certification program, students will gain knowledge of core leadership skill sets, enhance their co-curricular learning experiences and build meaningful and sustainable relationships to positively impact a diverse campus community and beyond. As such, students will become aware of and engage in student leadership practices that foster and sustain a culture of organizational effectiveness, community engagement, and social justice. This course earns one GEP toward Goal 10 Citizenship in general education. Prerequisites: Must submit Leadership Certification Application in the Center for Leadership & Engagement and meet with a staff member to review the program. This is open to all students with permission granted from the Center for Leadership & Engagement.	ACT	0	0
CLE	111	VAR ATHL	Provides the opportunity for students to participate fully as a member of one (or more) of the Bloomsburg University varsity athletics teams. Develops overall fitness, communication skills on- and off-the-field, teamwork strategies, and knowledge of healthy living for life. Grading basis is pass/fail, and CLE is repeatable. This course earns one GEP toward Goal 9 Healthy Living in general education. Prerequisites: None.	ACT	0	0
CLE	150	PEER EDUCATOR	Training is designed for students working as peer educators in various academic support programs at Bloomsburg University. It introduces students to the roles and responsibilities of peer educators in a college setting. It will overview effective strategies for peer educators including fostering independence, stimulating active learning and critical thinking, and assessing student learning. Topics related to understanding ourselves and others as learners, building confidence, and working in a diverse environment will also be highlighted. Topics are designed for peer educators to achieve Level 1 tutor certification. In order for students to successfully earn the CLE and certification, they will have to complete the training program and complete 25 hours of student interaction. Prerequisites: None.	LEC	0	0

CLE	211	FIRST RESPONDER	Explores the benefit to the community and to the student of being an active first responder in their community. Examples of first responders for which this course may be appropriate are firefighter, fire police, police, constable, emergency medical technician, National Guard service members and so forth. This co-curricular learning experience requires at least 40 hours of service calls, including time in documentation. This co-curricular learning experience is repeatable. Prerequisite: Active service as a first responder and permission of instructor.	ACT	0	0
CLE	244	MVETS - UNIQUE EXP.	Explores experiences with cultures other than the student's own and the impact those experiences had on growth and development regarding cultural competence. Students will critically think about the differences and similarities to cultures outside of their own and how exposure to other cultures has helped them to be more aware of diversity and informed about global issues and differences. Students will explore their cultural assumptions and cultural self-awareness, and will demonstrate how better understanding other cultures has helped them to grow. This course earns two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: Open to military students (to include military dependents) who have had extended exposure to cultures different from their own (typically in the fashion of a deployment overseas or mobilization which resulted in foreign interactions) and permission from the Supervisor of the Office of Military and Veterans Resources.	ACT	0	0
CLE	301	CGA PRESIDENT	Provides the Community Government Association (CGA) President, the elected leader of the student body at Bloomsburg University, the opportunity to learn more regarding communication and citizenship by representing Bloomsburg University at Trustee meetings, PASSHE meetings and Town of Bloomsburg government meetings. The CGA President is an officer of Honeysuckle Student Holdings, Inc., the Kehr Union Governing Board and the Student Recreation Center Governing Board. The CGA President has fiscal responsibility for the operating budget of CGA, Inc. CGA President serves for a term of one academic year and will receive General Education points once. Prerequisites: Elected as CGA President. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 10 Citizenship in general education.	ACT	0	0
CLE	380	BUWC SPECIAL TOPIC	Explores theories, research methods, and practices of writing center work related to a particular topic beyond the introductory treatment offered in BU Writing Center Practicum. Writing Consultants read, explore, and meet for one hour each week to discuss the semester topic and aspects of their work in the BUWC. Topics may include the following: technology in writing center consulting, discipline-specific writing practices, writing center resources, writing center scholarship. Repeatable for MyCore GEPs. Required for those currently employed as a BU Writing Center (BUWC) Consultants. Prerequisites: Permission of the BU Writing Center (BUWC) Director. For current BUWC Writing Consultants. This course earns one GEP toward Goal 1 Communication in general education.	ACT	0	0
COMMSTUD	103	PUBLIC SPEAKING	Introduces students to the verbal, nonverbal, and organizational skills necessary for giving effective public presentations. Students will learn the theory and principles of effective public speaking and practice these principles by performing and analyzing speeches. Students will complete at least three major speaking assignments. This course earns three GEPs toward Goal 1 Communication in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3

COMMSTUD	104	INTERPERSONAL COMMUN	Introduces students to the process of interpersonal communication. Students will explore the role of conversations and relationships to enhance their participation in daily interactions and their critical awareness of the process. Topics will includes the interconnections between identity and communication, language, nonverbal communication, listening, and communication dynamics within relationships. This skills-based course typically includes lecture, discussion, and in-class or distance education. The course is open to all students.. This course earns three GEPs toward Goal 1 Communication in general education. Three hours lecture per week. Prerequisite: None.	LEC	3	3
COMMSTUD	106	SM GROUP COMM	Examines communication principles and practices for successfully leading and participating in small groups. Particular emphasis is placed on communication skills involved in navigating group relationships and group decision making processes. This course is open to all students. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 3 Analytical and Quantitative Skills and one GEP toward Goal 10 Citizenship in general education. Prerequisite: None. Three hours lecture per week.	LEC	3	3
COMMSTUD	154	MENTAL HEALTH COMM	Explores theoretical and practical aspects of mental health prevalence, portrayal, and management from a health communication perspective. Students will examine theories of disclosure, privacy, and stigma, perceptions and stigma of mental health among college students and in society at-large, social and racial challenges associated with mental health, and strategies for seeking and providing information and support. The course may be offered face-to-face or through distance education, is open to all undergraduate students, and is designed to be delivered in a half a semester. No prerequisites.	LEC	1	1
COMMSTUD	156	PERSUASION IN FILM	Critically examines the intersections between popular film and changes in local, national, and global cultures. The emphasis of the course is in viewing films as persuasive texts, highlighting the relationship of film to ideology, identity, and history. Students will learn how to apply both rhetorical and media criticism theories to the films covered in the course. Prerequisites: NONE	LEC	1	1
COMMSTUD	156	PERSUASION IN FILM	Critically examines the intersections between popular film and changes in local, national, and global cultures. The emphasis of the course is in viewing films as persuasive texts, highlighting the relationship of film to ideology, identity, and history. Students will learn how to apply both rhetorical and media criticism theories to the films covered in the course. Prerequisites: NONE	LEC	1	1
COMMSTUD	207	COMM RES METHODS	Introduces students to the empirical research process in the field of Communication Studies. Students will learn the basics of empirical research including the planning of studies, quantitative designs, qualitative designs, nonparametric/parametric data analysis, interpretation of results, and scientific measurement of variables. This writing intensive course also introduces students to the process involved in conducting background research and reporting on empirical research. This course will be offered at least once per year. Three hours lecture per week. Prerequisites: COMMSTUD.103 or COMMSTUD.104 or permission of instructor.	LEC	3	3
COMMSTUD	209	RHETORICAL CRITICISM	Introduces students to the art of communication analysis and to a variety of critical approaches which help students negotiate their way through a world of messages that compete for attention, influence beliefs and decisions, promote social change, and craft cultural identities. This course is primarily designed for Communication Studies students as a required course for the major, but is open to other students with an interest in critical analysis of communication. Successful completion of ENGLISH 101 is recommended prior to enrolling in this writing-intensive course. Prerequisites: NONE	LEC	3	3

COMMSTUD	210	ORG COMM THEORY	Explores theoretical and practical aspects of how communication patterns develop in organizations, and what effect these patterns have on various organizational processes and outcomes. Students will examine specific communication issues relevant in all types of organizations as well as discussing contemporary issues which organizations face. This course will be offered fall and spring semesters. Three hours lecture per week. Prerequisites: Students must have completed COMMSTUD.104 or by permission of instructor Majors and Minors only.	LEC	3	3
COMMSTUD	215	COMMUNICATION THEORY	Introduces foundational ideas related to theory and surveys theories of Communication Studies, both general theories and those specific to particular contexts such as interpersonal communication, rhetorical theory, organizational communication theory, and culture and communication. A wide range of readings reflects the multidisciplinary nature of contemporary Communication Studies. This is a survey course for all students in the major and any student interested in learning more about theory within the field of Communication Studies. Prerequisites: None.	LEC	3	3
COMMSTUD	220	INTERCULTURAL COMMUN	Explores communication in cultural contexts. Students will be exposed to general principles for communication across cultures, both international and domestic, with the goal of becoming competent communicators. In addition to dealing with "international" contacts such as exchange programs and orientation to travel abroad, and/or study abroad, the course will explore "co-cultural" variations--that is, similarities and differences of individuals within the United States, and cultural differences and similarities transnationally in race, gender, sexual orientation, age, and condition of disability. This course is open to all students and is offered at least once per year. May be offered in traditional and distance education formats. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: None. Three hours lecture per week.	LEC	3	3
COMMSTUD	307	COMM BUSINESS PROFS	Designed to survey and strengthen necessary written and oral communication skills for entry-level managers, employees, and communication professionals in business and professional settings. It emphasizes important skills from three basic communication areas: interpersonal and organizational, interviewing and group, and public. Three hours lecture per week. Prerequisites: COMMSTUD.104 Interpersonal Communication, or by permission of instructor.	LEC	3	3
COMMSTUD	309	GENDER ISSUES COMM	Presents a broad range of theories concerning the nature of differences in communication behavior among different genders and the presumed origins of such differences. It also explores a variety of topics in gender and communication including verbal and nonverbal communication; family and relationships; the workplace and the media; feminism and other social movements; and domestic and sexual violence. The primary focus is on U.S. society, but some historical and cross-cultural contrasts will also be explored. The course is designed for students in Communication Studies and the Gender Studies Minor and other students interested in issues related to gender. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: COMMSTUD.104: Interpersonal Communication; or by permission of instructor. Three hours lecture per week.	LEC	3	3
COMMSTUD	313	CONFLICT MGMT & RES	Analyzes the role of communication in the generation, process, and management of destructive and constructive conflict on interpersonal, small group, organizational, and societal levels. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: COMMSTUD.104 or by permission of instructor.	LEC	3	3

COMMSTUD	314	COMMUNICATING IDENTITY	Focuses on the role of communication in the construction of cultural identities. The course addresses processes by which individual identities are formed, maintained, and executed during interpersonal interactions. Class content explores communicative factors that impact identity development, maintenance, and negotiation as a means to make sense of social, cultural, and interpersonal structures of relating within the United States. Primary goals of the course include understanding the social construction of difference as well as social justice strategies for bridging the gap in identity differences to improve interpersonal functioning. The course is open to Communication Studies majors/minors, Ethnic Studies minors, and others by permission of instructor. This course earns 1 GEP in Goal 1 - Communication and 2 GEP's in Goal 4 - Cultures and Diversity. Course is offered at least once a year. Prerequisite: COMMSTUD.104 - Interpersonal Communication	LEC	3	3
COMMSTUD	315	PERSUASION	Examines the way people influence others. It provides practice in crafting, presenting and evaluating persuasive messages. This course is designed for Communication Studies major/minors, Professional Communication minors, Health Communication minors, and other students interested in the process of persuasion. Prerequisites: COMMSTUD.103 - Public Speaking or by permission of instructor.	LEC	3	3
COMMSTUD	316	COMMUNICATION ETHICS	Raises consciousness, suggests possible criteria for judgment, and stimulates critical thinking about ethical problems in communication within interpersonal, organizational, mediated and public/political realms.	LEC	3	3
COMMSTUD	324	HEALTH COMMUNICATION	Examines communication that takes place in health contexts. The course covers topics such as communication and language barriers, narratives of illness/health in different cultures, health communication in marginalized communities (global and local), social support networks, and health campaigns. In addition, the course surveys current issues and future directions of health communication research and practice. This course is designed for Communication Studies students and other students with an interest in the connections between communication and health. Prerequisites: COMMSTUD.104 Interpersonal Communication or by permission of instructor.	LEC	3	3
COMMSTUD	413	COMMUNITY LEADERSHIP	Identifies the communication skills that leaders need to help influence the information environment and the collective action of community members. We will adopt a rhetorical perspective in examining leadership within the contexts of political communication and social movement rhetoric. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	LEC	3	3
COMMSTUD	418	ISSUE/IMAGE CAMPAIGN	Encompasses the role of campaigns in shaping social, cultural, and political agendas; theoretical foundations of persuasive campaigns; and effective strategies for creating, maintaining, and restoring image as a fitting response to emergent issues. Students participate in the planning of an actual issue and image campaign proposal to gain experience as persuasive strategists. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD 210 Organizational Communication Theory or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	LEC	3	3

COMMSTUD	419	FAMILY COMMUNICATION	Focuses on the interaction patterns and communication dynamics that define families and shape family functioning. Students will learn about the theories and methods used in and applications of contemporary family research. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD 210 Organizational Communication Theory or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	LEC	3	3
COMMSTUD	423	COMM TRAINING IN ORG	Focuses on advanced presentation skills for students exploring career opportunities as communication trainers or as professionals engaged in, or facilitating, adult learning. This class provides an overview of the training process including topics such as: needs assessment and task analysis, theories of adult learning, curriculum and content development, persuasion and personal selling, preparation/ presentation of workshop sessions, and the evaluation of outcomes. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD 210 Organizational Communication Theory or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	LEC	3	3
COMMSTUD	426	LEADERSHIP TEAM BLDG	Provides an intensive survey of theory and research pertaining to working in small task groups. The course includes a focus on practical knowledge required to become a productive participant and leader in small group contexts. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD 210 Organizational Communication Theory or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	LEC	3	3
COMPSCI	115	PYTHON PROGRAMMING	Introduces the Python programming language. Students will use Python to perform numerical and text-oriented calculations, write data-manipulation programs, and script computer operations. Hands-on activities include writing and running console-mode programs, inspecting data files, and graphing of data. Prerequisites: None. Three hours lecture per week.	LEC	3	3
COMPSCI	121	OBJ-ORIEN PROG JAVA	This course introduces students to object-oriented programming ideas and techniques using the Java programming language. Topics include: classes, objects, fundamental data types, control structures, class design, testing, debugging, and Java documentation. Students develop moderate length programs following the design guidelines presented in the course. Four hours of lecture per week.	LEC	4	4
COMPSCI	122	GRAPH INTERFACE JAVA	This course continues the study of object-oriented ideas and techniques using the Java language. Topics include arrays, interfaces and polymorphism, event handling, inheritance, graphical user interfaces, exceptions, and files and streams. Four hours of lecture per week. Prerequisite: COMPSCI.121.	LEC	4	4

COMPSCI	221	ADVANCED JAVA	This course is designed to increase the student's breadth and flexibility as a programmer and is a prerequisite for most 300 and 400 level courses in computer science. The course completes our department's coverage of the Java programming language. The course will emphasize object oriented programming and design. We cover recursive programming, generic programming, database programming, concurrent programming, network programming, web programming with servlets, Java Server Pages and XML. Four hours of lecture per week. Prerequisite: COMPSCI.122.	LEC	4	4
COMPSCI	240	C & ASSEMBLY PROG	Develops programming skills using C and Assembly languages. This course provides Computer Science majors with additional language experience; it also covers binary and hexadecimal numbering systems in depth. The course is conducted in a Linux environment. Classes are a mixture of lectures and hands-on activities. Three hours lecture per week. Prerequisites: A Computer Science course numbered higher than 110.	LEC	3	3
COMPSCI	350	ORG OF PROGRAM LANG	This course is designed to enable the student to appreciate the role of programming languages in the programming process. It introduces the formal study of programming languages and the rationale for such study. Students will learn the variety of programming language constructs that have been implemented and their advantages and disadvantages. Students will also be able to critically evaluate particular programming language constructs. Three hours of lecture per week. Prerequisite: COMPSCI.255.	LEC	3	3
COMPSCI	355	ALGOR & DATA STRUCT	This course gives a detailed look at different algorithms and data structures. The students will also examine the performance of various algorithms and data structures. Particular attention is paid to algorithms for searching and sorting, graph algorithms, and techniques for implementing and manipulating various data structures using object-oriented programming techniques. NP-completeness will also be introduced. Three hours of lecture per week. Prerequisite: MATH.185 and COMPSCI.255.	LEC	3	3
COMPSCI	357	DATABASE DESIGN	This course provides a comprehensive understanding of the key concepts and terminology in the theory and design of relational databases. Students learn to create Entity Relationship Diagrams (ERD), normalize database tables, and use Structured Query Language (SQL) and PL/SQL programming to create database structures, access and manipulate data. Three hours of lecture per week. Prerequisite: Any COMPSCI course numbered at or above COMPSCI.115 or WDD 170	LEC	3	3
COMPSCI	360	COMPUTER ETHICS	Presents an introduction to the ethical and social issues that emerge from the widespread use of technology in our global society. The course acquaints computer science students with the implications of the laws, issues and professional codes of ethics in the context of their future careers. The responsibility of computer professionals to understand and follow the ACM Code of Ethics and Professional Responsibility is emphasized. Basic concepts in computer security will be discussed. Three hours lecture per week. Prerequisites: COMPSCI.221 and COMPSCI.357.	LEC	3	3
COMPSCI	375	LOCAL AREA NETWORKS	This course examines in detail key local area network standards and the fundamental concepts of local area network (LAN) technology. It provides an understanding of network architecture, data transmission methods, and major LANs currently in use. LANs will be considered individually and in the context of the Internet. This investigation of LAN protocols, topologies, and network operating systems will include hands-on experience in installing and demonstrating peer-to-peer and client-server LANs. Three hours of lecture per week. Prerequisites: COMPSCI.240 and COMPSCI.330.	LEC	3	3

COUNSEL	400	HELPING PROFESSIONS	Exposes students to components of counseling across an array of professional settings and enables students to examine their own personal wellness for pursuing a career as a helping professional. The content also provides a background for detailed study in several areas of specialization including individual, family, and group counseling. To complete fieldwork with children and youth, students must possess up-to-date, required clearances as per local and state regulations. Undergraduate students must be enrolled in the Child Life Specialist Minor to schedule this class.	LEC	3	3
COUNSEL	420	HUMAN DEVELOPMENT	Explores development throughout the lifespan with a special focus on the school age and adolescent years. Topic explored include physical, cognitive, and psychosocial aspects of human growth, development, and behavior. Students will develop an understanding of the personal-social nature and needs of children spanning the Pre-K through adolescent developmental continuum and their families through a multicultural context. To complete fieldwork with children and youth, students must possess up-to-date, required clearances as per local and state regulations. Undergraduate students must be enrolled in the Child Life Specialist Minor to schedule this class.	LEC	3	3
COUNSEL	500	HELPING PROFESSIONS	Serves as a core and foundational experience for students enrolled in the School Counseling specialty area within the graduate Counseling program. The course exposes students to components of counseling across an array of professional settings and enables students to examine their own personal wellness for pursuing a career as a helping professional. The content also provides a background for detailed study in several areas of specialization including individual, family, and group counseling. Prerequisites: None.	LEC	3	3
COUNSEL	510	GROUP COUNSELING	Examines group processes and their application to counseling. This course also offers practical experiences in facilitating and leading support groups in an educational organization. Students will also participate as a member in a group setting. Prerequisites: COUNSEL.500 or COUNSEL.501.	LEC	3	3
COUNSEL	516	PRE-PRACTICUM IN SC	Introduces candidates to the school counseling profession through observation of professional counselors in an appropriate, educational setting. Candidates will also engage in preliminary application of theories and principles related to school counseling including diverse populations and settings. Students will complete 40 hours of this clinical, pre-practicum experience. Prerequisites: None. May be offered in traditional and distance education formats.	CLN	1	1
COUNSEL	517	PRACTICUM IN SC	Extends the pre-practicum experience and advances the candidates' application of theory and development of counseling skills under site and faculty supervision. The candidate will engage in supervised, direct service to diverse PK-12 students in an appropriate, educational setting. Site and faculty supervisors will provide at least one hour per week of continual feedback and mentoring in individual and group setting. Students will complete 80 hours of this clinical, practicum experience. Prerequisites: None. May be offered in traditional and distance education formats.	CLN	2	2

COUNSEL	518	ADV PRACTICUM IN SC	Extends and deepens the pre-practicum and practicum experiences and advances the candidates' opportunity to design, implement and evaluate school counseling programs. Candidates will continue to demonstrate their individual and group counseling skills with diverse students across all grade levels (PK-4; 4-8; 7-12) within an appropriate educational setting. Further, candidates will use available data to assess both individual performance and programmatic performance. Site and faculty supervisors will engage in regular feedback and mentoring of students in individual and group settings. The internship experience spans, at minimum, 420 hours over a 12 week period. Students may divide their internship experience over two terms, allowing those who work full-time or those who have similar commitments to still meet program and Pennsylvania Department of Education (PDE) requirements. Prerequisites: COUNSEL.516, COUNSEL.517 or concurrent. May be offered in traditional and distance education formats.	CLN	1	6
COUNSEL	520	HUMAN DEVELOPMENT	Explores human development throughout the lifespan with a special focus on the school age and college years. Topics covered include physical, cognitive, and psychosocial aspects of human growth, development, and behavior. Emphasis will be placed on practical application of the course content to the counseling and student affairs professions. Students will develop an understanding of the personal-social nature and needs of Pre-K students up through college students and families at all developmental levels in multicultural contexts. Prerequisites: None. May be offered in traditional and distance education formats.	LEC	3	3
COUNSEL	525	MULTI COUNSELING	Focuses students' attention to the presence of personal resistance, biases, prejudices, stereotypes, judgmental thought processes, and racist tendencies in society and how that affects practicing counselors and student affairs professionals. The development of knowledge and understanding regarding characteristics and concerns of diverse populations, the attitudes and behaviors affected by dominant group membership, and the individual and group approaches/interventions appropriate within the multicultural helping settings will be explored. The course will also provide students with a comprehensive overview of the theoretical approach concerning knowledge, awareness, skills, and attitudes toward seeking mental health services that counselors and student affairs professionals will need in order to demonstrate multicultural competence. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
COUNSEL	550	INTRO TO SC	Emphasizes the various roles of the school counselor and introduces appropriate strategies to develop consultation and collaboration within the school setting (PK-12). Concepts and techniques within school settings are explored to address behavioral and developmental challenges and release creative capacities of children. An introduction to the American School Counselors Association (ASCA) standards is provided with a focus on the history and philosophy of school counseling and an introduction to ethical and legal issues that involve counselor advocacy and leadership. The course may be offered via distance education or traditional classroom setting. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
CRIMJUST	101	INTRO CRIMINAL JUST	Examines crime and the criminal justice system from a social science perspective: how the system operates in theory and practice, successful and failed criminal justice policy, and constraints faced by law enforcement agencies, courts and correctional facilities. Required of all criminal justice majors and minors. Multiple sections are offered each fall and spring semester. There are three hours of lecture per week. This course earns three GEPs toward Goal 6 Social Sciences in general education. No prerequisites. Open to all students.	LEC	3	3

CRIMJUST	200	CRIMINOLOGY	Discusses the major sociological, biological, and psychological explanations of crime and justice to provide a theoretical understanding of the discipline. Presents the scope of crime in the United States and other countries. Probes each major type of crime, drug crimes, and prostitution. May be offered through a traditional lecture or distance education format. Prerequisite: CRIMJUST.101 - Introduction to Criminal Justice.	LEC	3	3
CRIMJUST	212	REST JUST	Emphasizes repairing the harm caused by criminal behavior as an alternative to the punitive approach which underlies the practice of criminal justice in the US. Students will examine the impact crime has on victims, communities, and offenders and evaluate restorative justice strategies for effectuating meaningful personal, interpersonal, and organizational change to address the harms caused by crime in a holistic manner. Three hours lecture per week. Prerequisites: None.	LEC	3	3
CRIMJUST	230	POLICE AND SOCIETY	Examines law enforcement practices and problems, including the legal, political, and historical framework. Analyzes police organizations and their relationship with other criminal justice and social agencies. Explores individual and community aspects of police-society relations, police and minority groups, social change and law enforcement. Probes police discretion and its role within the police organization and its impact on society. May be offered through a traditional lecture or distance education format. Prerequisites: CRIMJUST.101 - Introduction to Criminal Justice.	LEC	3	3
CRIMJUST	255	CJ RESEARCH	Introduces students to social science research methods common in sociology and criminal justice. Finding, reviewing and critically evaluating research literature and exploring essential components in the design of ethical research projects are central. Quantitative techniques are emphasized but attention is given to other approaches as well (e.g., qualitative and evaluation research). Class time typically includes a mix of lecture, discussion, and/or in-class exercises. The course is required for sociology and criminal justice majors but is open to all students who have taken SOC 211 or CRIMJUST 101 and have an interest in social science research. Offered every fall and spring semester. This course earns one GEPs toward Goal 1 Communication and two GEPs toward Goal 2 Information Literacy in general education.	LEC	3	3
CRIMJUST	260	CJ STATISTICS	Introduces students to the logic of statistical inquiry in social science research. Students learn basic statistical concepts and techniques necessary to conduct quantitative research. The course is taught with lecture and in-class computation and involves learning to use statistical software. The course is required for sociology and criminal justice majors but is open to others that have taken SOC.255 or CRIMJUST.255 and have an interest in social science research. Offered every fall and spring semester. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education.	LEC	3	3
CRIMJUST	300	JUVENILE DELINQUENCY	Examines social pressures operative upon children and youth in American society, which lead to formation of delinquent personality. Discusses contemporary research on treatment and prevention, juvenile courts, clinics and correctional institutions, evaluation of theories, and other related concepts. This course is offered through a traditional lecture or distance education format. Prerequisites: CRIMJUST.101 - Introduction to Criminal Justice.	LEC	3	3
CRIMJUST	310	PENOLOGY	Examines the social rationales, methods and consequences of punishing, and rehabilitating law breakers. Explores the social history of prisons, jails and punishment, interpersonal dynamics within correctional institutions, the inmate social order, causes of riots, treatment programs, and alternative models and policies. May be offered through a traditional lecture or distance education format. Prerequisite: CRIMJUST.101 - Introduction to Criminal Justice.	LEC	3	3

CRIMJUST	320	VICTIMOLOGY	Examines the incidence, prevalence, and effects of victimization on individuals and groups from such crimes as family violence, rape, street crime, and fraud. Explores the origins and history of crime victims, and subsequent responses by the criminal justice system. Details the overlap of crime victims and offenders, as well as special populations including the elderly, persons with mental illnesses, and those incarcerated. This course will be offered through a traditional lecture or distance education format. Prerequisite: CRIMJUST.101 - Introduction to Criminal Justice..	LEC	3	3
CRIMJUST	340	CRIM INVESTIGATION	Analyzes a wide range of criminal investigation processes and techniques. Topics include the history and evolution of criminal investigation, theory and methodology of criminal investigation, as well as the legal influences on the development of the criminal investigation process. Discussion is centered upon methods applied in managing the investigation of persons and property crimes, case management and the specializations needed in order to successfully investigate criminal matters. This course is offered through a traditional lecture or distance education format. Prerequisites: CRIMJUST.230 - Police and Society.	LEC	3	3
CRIMJUST	430	SPEC TOPICS IN CJ	Study of a topic in criminal justice; topic varies with each presentation of the course.	LEC	3	3
CRIMJUST	440	DEATH INVESTIGATION	Analyzes a wide range of death investigation processes and techniques: topics include the processing of death-related crimes, estimating time of death, medical terminology related to death investigations, autopsies, traumatic injuries, theories of murder and serial murder, forensic specialties related to death investigation as well as the legal influences on the development of the death investigation process. Discussion is centered upon case management and the specializations needed in order to successfully investigate death scenes. Three hours lecture per week. Prerequisites: 18 credits in criminal justice. CRIMJUST.340: Criminal investigation is recommended but not required.	LEC	3	3
CRIMJUST	460	COM CRIM JUS SYSTEMS	Provides a scholarly introduction to criminal justice systems around the globe via comparative analysis. Examines and reflects on the ways different countries and jurisdictions deal with the main stages in the criminal justice process including policing, courts, and correctional systems. Introduces notable international criminal justice institutions and their operations. Satisfies one of the core elective requirements for the students majoring or minoring in the Criminal Justice program. Can be offered through a traditional, blended, or distance education format in a regular or compressed time frame. Prerequisite: Must have earned at least 12 credits in Criminal Justice or permission of the instructor.	LEC	3	3
CSD	152	INTRO TO COMM DIS	Provides an overview of human communication and swallowing processes. An introduction to speech, language, hearing, communication and swallowing disorders is provided. The professions of communication disorders and the roles of speech language pathologists, audiologists and educators are discussed. This course earns one GEP toward Goal 5 Natural Sciences and two GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: None.	LEC	3	3
CSD	200	INTRO TO AUDIOLOGY	Introduces students to the anatomy, physiology, disorders, basic assessment, and habilitation/rehabilitation of the auditory system. Three hours lecture per week.	LEC	3	3
CSD	240	NORM LANG ACQUISITN	This is an introductory course on normal language development from birth through adolescence. Theories of language acquisition and cognitive and social foundations for language and communication will be explored. Biological, neurological, sensory, psychological, developmental, and cultural influences on language development will be discussed. Must be an Audiology/Speech Pathology major in order to enroll in the program's courses. Three hours lecture per week.	LEC	3	3

CSD	260	CLINICAL OBSERVATION	This course provides observation experiences within the scope of practice of speech-language pathology and audiology under the direction of an ASHA certified professional. Students acquire a minimum of 25 observation hours for ASHA certification and gain information on professional credentialing, contemporary issues, and ethical conduct. Prerequisite: 15 earned credits. Must be an Audiology/Speech Pathology Major. Three hours lecture per week.	LEC	3	3
CSD	355	ASMNT/SP DIS	This course provides a knowledge base for the assessment and differential diagnosis of speech disorders. It focuses on etiologies, characteristics, anatomical/physiological, acoustic, developmental and cognitive aspects of articulation, motor speech, fluency, voice, and resonance disorders. Three hours lecture per week. Must be an Audiology/Speech Pathology Major. Prerequisites: AUDSLP 220	LEC	3	3
CSD	400	AUD TRAIN & SP READ	Study of the principles and techniques associated with auditory training and speechreading for professionals. Emphasis will be placed on introducing the students to historical and current theories and methods of auditory learning. Discussions on the implication of hearing loss on daily life in ideal and poor communication settings and a variety of communication needs including: auditory-verbal communication, auditory training, speechreading training, cochlear implants, hearing aids, sound field systems, assistive listening devices, classroom acoustics. Must be an Audiology/Speech Pathology major in order to enroll in the program's courses. Prerequisite: .AUDSLP.200. Three hours lecture per week.	LEC	3	3
CSD	415	ELL: BASIC LANG&COMM	This course is intended for pre-service/practicing professional educators including speech-language pathologists who support English Language Learners (ELLs) in educational settings. Content focuses on knowledge of English usage and developing linguistic awareness. Students acquire knowledge of the components of English language, including semantics, morphology, syntax, phonology and pragmatics. The process of first and second language acquisition is presented. Prerequisites: Teacher education or Audiology/Speech Pathology major or consent of audiology and speech pathology department chairperson.	LEC	3	3
CSD	425	ELL:ASSESS SUP SERV	Provides students with the skills necessary to design and implement assessment practices and support services for ELLs. Course content will focus on assessment practices, models, evaluation techniques, and assessment tools for language learning and academic achievement. Individualized Education Plans for ELLs and parent and family involvement will be discussed. This course is designed to meet the ESL Program Specialist certification for language and support services knowledge with the tools necessary to design standards aligned, authentic, communicative ELL instructional program materials to facilitate English language proficiency. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
CSD	460	PSYCHOLINGUISTICS	This course presents the study of language as a psychological phenomenon. Course content focuses on language comprehension and production processes, speech perception, memory and cognition. Application of psycholinguistic concepts to communication disorders is discussed. Must be an Audiology/Speech Pathology Major. Prerequisite: AUDSLP.240. Three hours lecture per week.	LEC	3	3
CSD	500	AUD TRAIN & SP READ		LEC	3	3

CSD	502	INTRO TO CLINIC	Introduces graduate students to the clinical process in preparation for provision of speech/language therapy services. Content includes clinical procedures, documentation processes and standards, national certification and state licensure requirements, and PA Department of Education requirements. Clinical requirements include 15 hours of clinical assistance with a minimum of 2 therapy sessions provided by each student prior to beginning Clinic in their spring semester. First year students are paired with second year students as clinical mentors under supervision of clinical staff. Prerequisites: Enrolled in M.S. program in speech pathology, clear criminal background check as per PDE regulations, proof of professional liability insurance.	LEC	1	1
CSD	515	ELL:BASIC LANG&COMM	Must be an Audiology/Speech Pathology Major.	LEC	3	3
CSD	525	ELL: ASSESS SUP SERV	Provides students with the skills necessary to design and implement assessment practices and support services for ELLs. Course content will focus on assessment practices, models, evaluation techniques, and assessment tools for language learning and academic achievement. Individualized Education Plans for ELLs and parent and family involvement will be discussed. This course is designed to meet the ESL Program Specialist certification for language and support services knowledge with the tools necessary to design standards aligned, authentic, communicative ELL instructional program materials to facilitate English language proficiency. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
CSD	552	LANG DIS PRESCHOOL	This course extends the study of normal language acquisition to identify developmental language delays, disorders, and differences in young children (Birth to 5). Language characteristics of diverse clinical populations are discussed. Principles and methods of assessment and intervention are presented. Family, cultural, and educational issues are addressed. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week.	LEC	3	3
CSD	556	PHON/ARTICUL DISORD	This course examines phonetic and language-based disorders of articulation/phonology. Emphasis is placed on the identification, description, and remediation of phonological disorders. Phonological process and distinctive feature based systems of analysis will be presented along with traditional assessment procedures. Interventions will include traditional phonetic approaches, language-based, constructivist, and other cognitive approaches. May be offered in traditional and distance education formats. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week.	LEC	3	3
CSD	565	MOTOR SPEECH DIS	This course focuses on neuromotor speech disorders in children and adults with emphasis on dysarthrias. Etiologies and characteristics of dysarthrias, including articulation, resonance, phonation, and respiration are discussed. Principles and methods of prevention, assessment, intervention, and counseling are presented. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week.	LEC	3	3
CSD	570	COG LANGUAGE DISORD	This course focuses on the disorders of language in adults resulting from diffuse injury/damage, such as traumatic brain injury and Alzheimer's disease. Prerequisite: Graduate enrollment in Speech Pathology. Three hours lecture per week.	LEC	3	3
CSD	572	AUGMENTATIVE COMM	This course focuses on augmentative and alternative communication (AAC) modalities and assistive technologies for individuals with significant disabilities of speaking and writing. Students acquire skills in evaluation, intervention, and prescriptions of AAC for diverse disability populations across the life span. Trends, issues, and challenges related to AAC in various settings are emphasized. Prerequisite: Graduate enrollment in Speech Pathology. Three hours lecture per week.	LEC	3	3

CSD	574	CLIN INST IN SP PATH	This course will provide the student with background information and experience with advanced clinical instrumentation used in the assessment and treatment of patients with speech, voice, and swallowing disorders. In addition, clinical experiences applying clinical instrumentation discussed in these lectures will also be implemented whenever possible. Prerequisite: Graduate enrollment in Speech Pathology. Three hours lecture per week.	CLN	1	1
CSD	576	CLINIC PRACT & ISSUE	This third in-house clinic course prepares students in all aspects of clinical management to serve individuals with communication and swallowing disorders in the Bloomsburg University Speech, Language, and Hearing Clinic and off-campus sites. Students acquire necessary knowledge and skills in preparation for their field experiences in the professional community. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week.	CLN	3	3
CSD	582	RESEARCH IN CSD	Provides the graduate student in communication sciences and disorders with knowledge and skills in research methods, research design and statistical analysis. Students will use clinical and non-clinical research literature to solve diagnostic and treatment problems encountered in the general practices of communication sciences and disorders. Clinical application of research and translation of research into evidence-based practice are emphasized. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Enrollment in either the AuD (Audiology) or MS (Speech Pathology) program in the Department of Audiology and Speech Pathology.	LEC	3	3
CSD	583	SWALLOWING II	This course provides the graduate student with detailed information and lab experience with procedures of evaluation of swallowing disorders, determination of objectives for patient management, and selection and implementation of therapeutic interventions for dysphagia across the life span. Case management, interdisciplinary team interaction, and professional communication skills are emphasized. Prerequisite: AUDSLP.581 Swallowing. Three hours lecture per week.	LEC	3	3
CSD	600	DIAG AUDIO 1	This course includes the procedures for determination of auditory sensitivity via air conduction, bone conduction, and in the sound field. Detailed procedures for assessment of speech perception are also included. Interpretation of test results to determine the presence, degree, and type of hearing loss will be discussed. All the equipment and procedural variables that can affect test results will be presented. Three hours lecture per week.	LEC	3	3
CSD	603	INTERN: CLIN AUDIO	The Speech, Hearing, and Language Clinic of Bloomsburg University is an integral part of the teaching-training program of the Department of Audiology and Speech Pathology. The clinic provides outpatient diagnostic and therapeutic services for persons of all ages with speech, hearing, and language problems, including students and other members of the college community and residents of the Bloomsburg area. It serves as an extension of the classroom where students can apply and study evaluation procedures, therapeutic methods, techniques and materials, and the classification and etiology of speech and hearing disorders. The clinic provides the student with an opportunity to relate text and lecture information to actual clinical cases under the close supervision of certified staff. Students gain experience in all aspects of remediation diagnosis, therapy, counseling, report writing with a wide variety of clients. The clinic is necessary and inseparable from the existing course sequence. It becomes an important step in the development of a competent clinician, linking the classroom and textbook with the clinical experiences, certification, and employment in the field. Internships are carried out within the Speech, Hearing and Language Clinic at Bloomsburg University as well as affiliated off campus sites.	CLN	1	3

CSD	604	H A THEO & TECH CON	The theoretical and technical aspects of hearing aid fitting to include psychoacoustics, acoustics, speech perceptions, compression strategies, real ear data, fitting formulas, acoustic modification, digital processing, and electroacoustic measurements will be considered. Three hours lecture per week.	LEC	3	3
CSD	621	HEARING SCIENCE 2	This course will include the following aspects of auditory perception: Pitch perception, space perception, auditory pattern and object perception, speech perception. Practical applications of psychoacoustic phenomena will also be discussed. Prerequisite: AUDSLP.602. Three hours lecture per week.	LEC	3	3
CSD	622	AURAL REHAB CHILD	Explores all related aspects of the provision of aural habilitation/rehabilitation services to children with hearing impairment. Content includes such topics as models of information processing during communication, development of auditory, speech and language skills in children with hearing loss, provision of effective counseling and guidance to families, provision of assessment and intervention services for the development of speech and language skills, speech conservation and Deaf culture. Prerequisites: Currently enrolled and academic good standing in the Au.D. program.	LEC	3	3
CSD	623	INTERN: CLIN AUDIO	The Speech, Hearing, and Language Clinic of Bloomsburg University is an integral part of the teaching-training program of the Department of Audiology and Speech Pathology. The clinic provides outpatient diagnostic and therapeutic services for persons of all ages with speech, hearing, and language problems, including students and other members of the college community and residents of the Bloomsburg area. It serves as an extension of the classroom where students can apply and study evaluation procedures, therapeutic methods, techniques and materials, and the classification and etiology of speech and hearing disorders. The clinic provides the student with an opportunity to relate text and lecture information to actual clinical cases under the close supervision of certified staff. Students gain experience in all aspects of remediation diagnosis, therapy, counseling, report writing with a wide variety of clients. The clinic is necessary and inseparable from the existing course sequence. It becomes an important step in the development of a competent clinician, linking the classroom and theory with the clinical experiences, certification, and employment in the field. Internships are carried out within the Speech, Hearing and Language Clinic at Bloomsburg University.	CLN	1	3
CSD	625	NEUROANATOMY	This is a clinical neuroanatomy course specific to the structures of the auditory, visual, and Somatasensory systems. It is the second course in a sequence of three courses specific to these systems. (Neurophysiology, neuroanatomy and clinical physiological methods in audiology). This course will familiarize the student with the structures in the auditory, visual, and Somatasensory systems. Neurophysiology will be reviewed to integrate the structure with system failure (disease process, mechanical manipulation) in each area. Three hours lecture per week.	LEC	3	3
CSD	637	MEDICAL AUDIOLOGY	Basic and advanced principles in medical diagnostic audiology including anatomy and physiology of the system, disorders of the system, radiology and functional brain imaging, pharmacology, genetics, medical treatment, and diagnosis. Three hours lecture per week.	LEC	3	3