

Subj	Cat	Title	Description	Method	MinCr	MaxCr
ACCT	120	SMALL BUSINESS ACCTG	Familiarizes students with accounting principles and practices applicable to small business organizations. Three hours lecture per week. For non-accounting majors only.	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	310	ACCT. INFO. SYS.	The course emphasizes accounting information systems, transaction cycles, and communication of financial information for management decisions within the context of business. Topics include ERP systems, e-business and electronic commerce, systems documentation including flowcharting, database management, internal control, business processes, transaction cycles, management reporting, projects using a midline ERP package and other projects using business software such as electronic spreadsheets. Three hours lecture per week. Prerequisite: ACCT.321.	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	342	AUD THEORY & PROCEED	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	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	426	ADV FRAUD EXAM	Builds on basic concepts developed in Introduction to Fraud Examination by providing in-depth coverage of occupational fraud and abuse including misappropriation of assets, corruption, and fraudulent financial reporting. Three hours lecture per week. Prerequisite: ACCT.326.	LEC	3	3
ACCT	430	ADV ACCOUNTING 1	Applies accounting principles to special problems in the consolidation and merger of business enterprises. Includes consideration of the basis for such combinations, consolidated statements on date of acquisition as well as subsequent dates with special emphasis on design, construction and utilization of integrated microcomputer generated worksheets and financial statements. Three hours lecture per week. Prerequisite: ACCT.323.	LEC	3	3
ACCT	448	ADV COST ACCOUNTING	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	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	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	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
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	312	SOUTH AMERICAN ARCH	A survey of prehistoric cultures of South America. Emphasizes the civilizations of the Andean zone and the role played by the Amazonian region in the development of Andean Cultures. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements/This course is approved as a Diversity General Education Course. Prerequisites: ANTHRO.101 or ANTHRO.200 or ANTHRO.210 or consent of the instructor. Three hours lecture per week.	LEC	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	380	MEN & WOMEN	A cross-cultural and evolutionary perspective on sex role behavior in past and contemporary cultures. Examines sex roles in nonhuman primates and humans. Examines sex roles in hunting and gathering, horticultural, pastoralist, peasant and other preindustrial societies are described as well as sex roles in modern industrial societies. Covers genetic and environmental theories of sex role behavior. This course is approved as a Diversity General Education Course/This course approved as 3 credits of Values, Ethics and Responsible Decision Making toward general education requirements/This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: 3 semester hours of anthropology.	LEC	3	3
ANTHRO	385	ANTHRO RESEARCH/WRIT	Familiarizes students with information sources in anthropology. Students learn how to access those sources and to write and present research paper in anthropology. Basics of statistical analysis are covered. Students write, revise and present a research paper on an anthropological topic. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: ANTHRO.200, ANTHRO.210, ANTHRO.220.	LEC	3	3
ANTHRO	405	PRIMATES	Studies the various phenomena affecting primate behavior, ecology, social life and socio-cultural adaption, with emphasis on the development of socio-biological traits relating to human origins. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: 9 semester hours of anthropology or ANTHRO.220 or any biology course.	LEC	3	3
ANTHRO	466	INDEPENDENT STUDY	Independent study by a student with faculty guidance of a particular research problem in anthropology. The research problem either extends current course content or deals with an area not covered in the current course offerings in anthropology. A problem is chosen by the faculty member and the student working together. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements.	IND	1	6
ANTHRO	497	INTERNSHIP IN ANTHRO	An on-site training and learning experience in anthropology that provides opportunities to apply theoretical and descriptive knowledge of archaeology, cultural anthropology and physical anthropology in private and government institutional settings.	SUP	3	15
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
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	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	215	AMERICAN ART HIST	Surveys artistic practices in the United States from the colonial period to the early 20th century. The course examines how America as idea and reality had been shaped, expressed, represented, and contested through art. Lecture/discussion. Open to majors and non-majors. Typically offered in the fall semester. This course earns three GEPs 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	345	NR EAST ART:ISLAMIC	Examines the formation and development of art and architecture in lands dominated by Islam. The course explores cultural and political settings as well as themes that unify the diverse artistic styles of Islamic art. Lecture/discussion. Open to majors and non-majors. Typically offered in the fall semester. There are no prerequisites for this course. Prerequisite: 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

ARTHSTRY	395	VISUAL AESTHETICS		LEC	3	15
ARTHSTRY	450	PERSPECT ON MUSEUMS	Addresses the social and cultural history of art museums from the late Middle Ages through the present. Introduces the basic purposes and responsibilities of museum - collecting, preserving and interpreting - and the duties of museum staff. Explores museum ethics, training, exhibitions and technology. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
ARTHSTRY	460	RSRCH/WRTNG ART HIST	Introduces critical methodologies in the history of art and focuses on the development of research and writing skills. Seminar format. Required for Art History majors and open to non-majors who meet the prerequisite requirement. Typically offered in the fall semester. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. Prerequisites: 60 earned credit hours, at least one Art History course and ENGLISH.101.	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	151	THREE DIMEN DESIGN	Introduction to the basic elements and principles of design such as the organization of visual elements and color, with emphasis on three-dimensional design. Introduces varied expressive methods of three-dimensional design, as well as analysis of images from historical and contemporary art precedents, including non-Western traditions. Studio sessions include extended work with various materials, individual instruction and group critique, demonstrations, and lecture. 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 materials for projects. Prerequisites: None.	LAB	3	3
ARTSTDIO	152	TWO DIMENSION DESIGN	Develop an understanding of visual communication through the study and practice of image-making. Gain proficiency in creating two-dimensional compositions. Learn to use a variety of two dimensional art materials. Develop creativity and problem solving skills. Learn to connect formal strategies with content and visual argument. Studio sessions include extended independent work creating images, using drawing, collage, painting, and printmaking. Sessions also include individual instruction and group critique, demonstrations, and lecture. Two-dimensional Design serves as a foundation for further study within the art major. The class meet 5 hours per week. Weekly homework assignments require students to do 4-5 hours' work outside of class. Students are responsible for purchasing some art materials for the course. 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	221	FABR DESIGN: DYE	Investigates dye as a form of visual communication. Students explore the medium's expressive potential, use varied dye 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 silk painting, Japanese Shibori, direct dyeing, improvisational screen printing, color removal and alternative fabric design. Studio sessions include extended work with dye materials, individual instruction and group critique, demonstrations, and lecture. Fabric Design: Dye 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	222	FABR DSGN: SURFACE	Examines the fundamentals of surface design techniques and visual communication in general. Students learn and practice the expressive use of surface design methods and techniques, professional practices within the discipline, explore varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Course content includes direct application of pigment, manual silkscreen printing, photo silkscreen, repeat pattern design and digital four-color process screen printing. Studio sessions include extensive work with fiber art materials, individual instruction, oral presentations, research of artists, development of concepts through sketches and class discussion, group critique, demonstrations, 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. 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	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 PAINTIN	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	241	INTRO SCULPTURE	Investigates sculpture as a form of visual communication. Students learn and practice the medium's expressive potential, use varied techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including nonwestern traditions. Studio sessions include extended work with sculpture materials, individual instruction and group critique, demonstrations, and lecture. Introductory Sculpture 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	242	INTERMEDIATE SCULPTU	Building on the skills and concepts covered in Introduction to Sculpture, this course further develops sculptural concepts, materials, and processes. The assigned projects will explore advanced materials, techniques, and conceptual practices. Emphasis will be given to the social, cultural, and aesthetic context of the work. Writing, research, class discussion, and critique are integral to the course. This course meets 5 hours per week. Homework assignments require students work 4-5 hours each week outside of class. While the studio provides some materials, students are responsible for purchasing supplies for projects. Prerequisites: ARTSTDIO.241.	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	INTAGLIO	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	INTRO 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	283	COLOR PHOTOGRAPHY	Introduces students to color photography as a significant medium of communication and aesthetic expression and to the theory and processes involved in producing color photographs. Introduction to alternative color photographic processes will also be taught. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.281	LAB	3	3
ARTSTDIO	291	INTRO DIGITAL ART	Introduces basic vector and raster software technologies while emphasizing individual creativity. Students explore using the computer as an expressive art-making tool. Formal design standards and principles are emphasized along with creative problem solving, experimentation, and personal expression. Studio sessions include demonstration, lecture, critique, individual instruction, and extended work sessions. Introductory Digital 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 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. There are no prerequisites.	LAB	3	3
ARTSTDIO	292	INTERMEDIATE DIGITAL	Explores crossover and interplay between digital and traditional art making. This is a continuation course that further examines the use of the computer as an art-making tool through a variety of digital art practices. Emphasis will be placed on creative problem solving and the development of individual methods of visual expression. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisites: ARTSTDIO.195 or ARTSTDIO.291.	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	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

ARTSTDIO	393	ADVANCED DIGITAL ART	Provides advanced study in current digital media. Emphasis is on individual investigations, research, writing, and the development of a refined body of new work produced through intensive studio practice and conceptual interests. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.292. May be repeated.	LAB	3	3
ARTSTDIO	480	INTERNSHIP IN ART	Provides upper-level art majors with an opportunity to acquire meaningful experiences in practical work situations outside the regular courses prescribed by art curriculum (e.g. designers, merchandising operations, artists).	SUP	3	6
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	235	INTRO INTERPRETING	Introduces the field of sign language interpreting and working with Deaf individuals. The course content includes an overview of the profession as well as working with diverse groups of people including social justice in the interpreting and its integration within Deaf communities, federal laws related to the field and the Code of Professional conduct for the profession. Prerequisites: None. May be offered in traditional and distance education formats.	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	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	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	420	SIMULTANEOUS INTREP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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

AUDSLP	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
AUDSLP	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
AUDSLP	495	HIS I ASLP	Independent study, under guidance of a faculty mentor, of a substantial research or creative topic. PREREQUISITES: Introduction to Honors Research	IND	3	3
AUDSLP	496	HIS II ASLP	Independent study, under guidance of a faculty mentor, of a substantial research or creative topic. PREREQUISITES: Introduction to Honors Research and Honors Independent Study 1.	IND	3	3
AUDSLP	500	AUD TRAIN & SP READ		LEC	3	3
AUDSLP	515	ELL:BASIC LANG&COMM	Must be an Audiology/Speech Pathology Major.	LEC	3	3
AUDSLP	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
AUDSLP	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
AUDSLP	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

AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	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
AUDSLP	582	RES SPCH LANG PATH	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
AUDSLP	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
AUDSLP	599	MASTERS THESIS	Provides an opportunity to employ accepted methods of empirical research in the solution or intensive study of some problem area of interest or concern in the area of Communication Sciences and Disorders (e.g., Speech Pathology or Audiology).	THE	1	3

AUDSLP	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
AUDSLP	602	HEARING SCIENCE 1	Basic properties of simple and complex sounds, sound measurement, and sound propagation will be reviewed. The classical psychophysical procedures for detection of auditory thresholds will be demonstrated. Loudness perception, frequency selectivity, and temporal processing in the auditory system will be discussed. Three hours lecture per week.	LEC	3	3
AUDSLP	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
AUDSLP	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
AUDSLP	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

AUDSLP	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
AUDSLP	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
AUDSLP	636	PROF ETH & CULT DIV	Manage issues related to ethical development and practice in the field of audiology, as well as multicultural sensitivity. Describe the code of ethics and the scope of practice for audiology as set by governing bodies in audiology. Explain a conflict of interest, rights of an audiology patient, reimbursement and funding issues, related to the field of audiology. This course is offered to the graduate students in the Doctor of Audiology program in an online/distance education format. Prerequisites: Currently enrolled and academic good standing in the Au.D. program.	LEC	3	3
AUDSLP	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
AUDSLP	638	CLIN EXT/RES 1	An integral part of the teaching-training program is to have the student transition to hospitals; ENT practices, audiology practices, and medical clinics. This will enable the student to gain experience with a diverse population of clients (age, gender, pathology, social/economic, and race), equipment, and clinical/medical procedures. It is the bridge between the theoretical experience and being prepared for the workplace. The Council for Academic Accreditation of the American Speech Language Hearing Association requires that specific contact hours must be completed across five categories and two age groups. The total number of contact hours in these categories and age groups will be 2,000 to 3,000 hours. These hours must be acquired in three distinct sites or work environments and there must be a full-time 12-month residency experience. The clinical experience in this sequence of courses will be a graded transition. The first experience (638, 642, 646) will be half time external with academic courses. Experiences 647-648 will be full-time external. This will ensure the diversity and hours needed to be prepared for employment, licensure, and certification.	CLN	1	3
AUDSLP	641	RESEARCH IN AUDIO	The application of clinical and non-clinical research literature to the solution of diagnostic and treatment of problems encountered in the general practice of Audiology. Three hours lecture per week.	LEC	3	3

AUDSLP	647	CLIN EXT/RES 4	An integral part of the teaching-training program is to have the student transition to hospitals; ENT practices, audiology practices, and medical clinics. This will enable the student to gain experience with a diverse population of clients (age, gender, pathology, social/economic, and race), equipment, and clinical/medical procedures. It is the bridge between the theoretical experience and being prepared for the workplace. The Council for Academic Accreditation requires that specific contact hours must be completed across five categories and two age groups. The total number of contact hours in these categories and age groups will be 2,000 to 3,000 hours. These hours must be acquired in three distinct sites or work environments and there must be a full-time 12-month residency experience. The clinical experience in this sequence of courses will be a graded transition. The first experience (638, 642, 646) will be half time external with academic courses. Experiences 647-648 will be full-time external. This will ensure the diversity and hours needed to be prepared for employment, licensure, and certification.	CLN	6	6
AUDSLP	649	EVAL & MGT BAL DIS 2	In order to provide comprehensive audiologic services to their patients, audiologist are often required to perform vestibular assessments. The successful completion of a vestibular assessment requires that the clinician have an understanding of the anatomy and physiology of the systems being tested, the medical history of the patient, the techniques needed to perform the testing, and the way to properly interpret the test results. In addition, once the cause of the disorder is determined, understanding the techniques that are available for treatment will allow the clinician to assist in the treatment of the patient. This course is the second in a 2-course series that will provide the audiology doctoral student with instruction in the techniques and interpretation of more advanced vestibular and balance tests. In addition, students will learn about vestibular rehabilitation as a technique to aid in the remediation of vestibular and balance disorders. Three hours lecture per week.	LEC	3	3
AUDSLP	650	INTRO TO IONM		LEC	1	3
AUDSLP	653	IONM ANESTHESIA		LEC	1	3
AUDSLP	656	IONM CRANIAL SURG		LEC	3	3
AUDSLP	699	DOC THESIS IN AUD	Opportunity to employ accepted methods of research in the solution or intensive study of some problem area of interest or concern. The problem area selected for the research project must be related to Audiology. Three hours lecture per week.	THE	1	6
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	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	222	COMP BIOL PLANTS	Provides an evolutionary study of the phyla of plants with emphasis on development, structure, reproduction, and selected paleobotanical aspects. This course is an elective for Biology majors. Prerequisite: BIOLOGY 115 (Concepts in Biology 2). Two hours of lecture and three hours of lab per week. Not offered every semester.	LAB	3	3
BIOLOGY	222	COMP BIOL PLANTS	Provides an evolutionary study of the phyla of plants with emphasis on development, structure, reproduction, and selected paleobotanical aspects. This course is an elective for Biology majors. Prerequisite: BIOLOGY 115 (Concepts in Biology 2). Two hours of lecture and three hours of lab per week. Not offered every semester.	LEC	3	3
BIOLOGY	230	HUMAN SEXUALITY	Presents an overview of the role and scope of sexuality in human life. Considers biological, anthropological, psychological and sociological aspects of sexuality. This course is intended as a survey and exploration of the basic nature of sexuality, from its physiological bases to its interpersonal ramifications. A major emphasis is placed upon mastering basic information in the natural sciences, intending to provide both the factual basis and the conceptual framework necessary for responsible citizenship. Not applicable to majors in biology or health sciences. Three hours lecture and one hour discussion per week. Prerequisites: None. This course earns one GEP towards Goal 5 Natural Sciences in general education and two GEP towards Goal 10 Citizenship in general education. Prerequisites: None.	DIS	3	3

BIOLOGY	230	HUMAN SEXUALITY	Presents an overview of the role and scope of sexuality in human life. Considers biological, anthropological, psychological and sociological aspects of sexuality. This course is intended as a survey and exploration of the basic nature of sexuality, from its physiological bases to its interpersonal ramifications. A major emphasis is placed upon mastering basic information in the natural sciences, intending to provide both the factual basis and the conceptual framework necessary for responsible citizenship. Not applicable to majors in biology or health sciences. Three hours lecture and one hour discussion per week. Prerequisites: None. This course earns one GEP towards Goal 5 Natural Sciences in general education and two GEP towards Goal 10 Citizenship in general education. Prerequisites: None.	LEC	3	3
BIOLOGY	231	BIOLOGY OF AGING	The biological mechanisms of the aging process are discussed with special emphasis on these processes in humans. Discussions include studies of aging at the molecular, cellular, systems and organismal levels. Emphasis is on the aging of human organ systems with some discussion of animal models of aging. Not applicable toward a major in biology.	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	FRESH WATER 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	FRESH WATER 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	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	334	MOLECULAR BIOLOGY LAB	Introduces 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 of lab per week. Prerequisite: BIOLOGY 271 (Cell Biology); BIOLOGY 333 (Molecular Biology) (pre- or co-requisite). Not offered every semester.	LAB	1	1
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	390	RESEARCH BIOL 1	Provides the opportunity for biology and allied health students to apply the scientific method and learn the techniques of scientific research, data collection, and analysis by engaging in an individualized program of research under the supervision of a faculty member. The research will culminate in a scholarly report written by the student, and the results will be presented at a scientific meeting or other appropriate venue. Prerequisite: Junior status (60 credits earned) and consent of instructor.	IND	3	3

BIOLOGY	391	RESEARCH IN BIO 2	Provides the opportunity for biology and allied health students to apply the scientific method and learn the techniques of scientific research, data collection, and analysis by engaging in a program of research under the supervision of a biology faculty member. The research will culminate in a scholarly paper written by the student, and the results will be presented at a scientific meeting or other appropriate venue. Prerequisite: BIO 390 (Undergraduate Research in Bio 1)	IND	3	3
BIOLOGY	431	DEVELOPMENTAL BIOL	Studies the genetic, molecular, cellular and morphological changes that occur during development. Current mechanistic concepts in development will be presented along with classical embryology to provide a comprehensive understanding of the processes that direct a fertilized single-celled egg to develop into a complex multi-cellular organism. Particular attention will be paid to recent molecular mechanisms. This is an elective course for Biology and Health Sciences majors. Three hours of lecture per week. The prerequisite is Biology 217 (Cell Biology). 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	478	MICROBIAL PHYSIOLOGY	Studies life processes of microorganisms, including how they maintain homeostasis in response to changing environmental conditions. Examines general similarities as well as significant differences between microbial groups. Covers principles of nutrition and growth, substrate uptake and transport systems. Discussion of energy-yielding metabolism in microorganisms will highlight the diversity of systems. Outlines precursor and macromolecule synthetic pathways and their regulation, with emphasis on industrial applications. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: BIOLOGY.242, BIOLOGY.271, CHEM.116.	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	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.	LEC	1	1

BIOLOGY	481	SR BIOLOGY SEMINAR	Addresses the practice of critical reading and of the scientific literature in biology, preparing written and oral analyses of original research, and engaging in critical discussion. One hour of seminar per week. Prerequisite: senior standing in biology.	LEC	1	1
BIOLOGY	489	CURRENT TOPICS BIO	Critically examines a specialized topic in biology in a lecture/seminar format. Topic varies each semester offered. This is a course for Biology and Health Sciences majors with three hours of lecture/seminar per week. Prerequisite: Junior standing in Biology or Health Sciences. Not offered every semester.	LEC	3	3
BIOLOGY	490	INTERN BIO/ALL HL SC	Provides an application of biological knowledge through study, observation, and practice in an off-campus professional setting. A maximum of 3 credit hours may be applied toward the major.	SUP	3	15
BIOLOGY	493	HONORS IND STUDY	Consists of a laboratory or field investigation of a particular problem or topic in biology. The study will be conducted under the supervision of a biology faculty member. The course is open to biology students in the Honors Program. Prerequisite: HONORS.300 and admission to the Honors Program.	IND	3	3
BIOLOGY	494	HONORS IND STUDY 2	Consists of a laboratory or field investigation of a selected problem or topic in biology. The study will be conducted under the supervision of a biology faculty member. This course completes the requirements for Biology Honors research. Prerequisite: BIOLOGY.493.	IND	3	3
BIOLOGY	531	DEVELOPMENTAL BIOL	Studies the genetic, molecular, cellular and morphological changes that occur during development. Current mechanistic concepts in development will be presented along with classical embryology to provide a comprehensive understanding of the processes that direct a fertilized single-celled egg to develop into a complex multi-cellular organism. Particular attention will be paid to recent molecular mechanisms of development. This is a graduate level course with three hours of lecture/seminar per week. The prerequisite is admission to the M.S. program in biology. Not offered every semester.	LEC	3	3
BIOLOGY	589	CURRENT TOPICS BIO	Critically examines a specialized topic in biology in a lecture/seminar format. Topic varies each semester offered. This is a graduate level course with three hours of lecture/seminar per week. Not offered every semester. Prerequisite: Admission to the M.S. program in biology.	LEC	3	3
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	404	PROF SEMESTER BCIT	Includes orientation experiences to observe the operation of a school and specific classes as well as 16 weeks of participatory teaching experiences correlated with classroom studies under full-time supervision. Prerequisites: Admission to Teacher Education and successful completion of BUSED.402 and BUSED.403. Schedule concurrently with BUSED.406.	FLD	12	12
BUSED	406	CLIN STUDY IN BCIT	Presents seminars on principles of education for business, computer and information technology teachers, instructional strategies for teaching business subjects, assessments and problems of classroom teaching. Classroom discussions closely correlated with the experiences of BUSED.404 and the four domains of the conceptual framework for professional practice. Prerequisites: Admission to Teacher Education and successful completion of BUSED.402 and BUSED.403. Schedule concurrently with BUSED.404.	LEC	3	3
BUSED	432	INTERNSHIP BUSINESS	Provides students with opportunities to acquire practical experiences in work situations in office systems. Prerequisites: Approval by department chairperson; GPA of 2.50 and 75 semester hours earned.	SUP	1	6
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

BUSED	504	PROF SEM IN BCIT	Provides opportunities for students to observe the operation of the secondary school environment and specific diverse classes as well as 16-weeks of participatory teaching experiences. This course is correlated with classroom studies under fulltime supervision. Prerequisites: Graduate standing AND admission into Teacher Education Certification in Business Computer Information Technology (BCIT). Taken concurrently with BUSED 506, Clinical Studies in BCIT.	FLD	9	9
BUSED	506	CLIN STUDY IN BCIT	Presents seminars on topics related to the teaching profession and instructional strategies and assessment techniques for teaching business subjects to diverse student populations. Seminar topics and discussions are closely correlated with the experiences of the Professional Semester in Business, Computer and Information Technology (BUSED 504). Prerequisites: Graduate standing and Admission into Teacher Education Certification in Business Technology (BCIT).	LEC	3	3
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	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	230	FUND ORGANIC CHEM	Provides an intensive exploration of biochemically-relevant organic chemistry. Building directly on concepts learned in CHEM.115 and CHEM.116, this course emphasizes the application of fundamental chemical principles to understand and predict the physical properties and chemical reactivity of organic functional groups. This course does not serve as a prerequisite for CHEM.232. Students applying to schools in the medical professions should take a two-semester organic chemistry sequence (CHEM.231 and CHEM.232). Three hours lecture and three hours of lab per week. Prerequisites: CHEM.116.	LAB	4	4

CHEM	230	FUND ORGANIC CHEM	Provides an intensive exploration of biochemically-relevant organic chemistry. Building directly on concepts learned in CHEM.115 and CHEM.116, this course emphasizes the application of fundamental chemical principles to understand and predict the physical properties and chemical reactivity of organic functional groups. This course does not serve as a prerequisite for CHEM.232. Students applying to schools in the medical professions should take a two-semester organic chemistry sequence (CHEM.231 and CHEM.232). Three hours lecture and three hours of lab per week. Prerequisites: CHEM.116.	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	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	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	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
CHEM	491	IND STUDY CHEMISTRY	Introduces chemistry and chemistry-related research methods as part of a semester-long project. Projects may entail a directed laboratory, computational, or literature investigation of one or more topics of interest to the student and instructor. The student will spend at least 42 hours of work on the project per credit hour. Of the research courses, this course is the more flexible, in terms of allowed project type. Prerequisites: Permission of instructor and the Department of Chemistry and Biochemistry.	IND	1	3
CHEM	492	CHEMICAL RESEARCH 1	Introduces chemistry and chemistry-related research methods as part of a semester-long project. Projects may entail a directed laboratory or computational investigation of one or more topics of interest to the student and instructor. The student will spend at least 42 hours of work on the project per credit hour. Prerequisite: Permission of instructor and the department of Chemistry and Biochemistry.	IND	3	3
CHEM	493	CHEMICAL RESEARCH 2	Continues instruction in chemistry and chemistry-related methods as part of a semester-long project. Projects may entail a directed laboratory or computational investigation of one or more topics of interest to the student and instructor. Projects may be a continuation of a project started in CHEM 492. The student will spend at least 42 hours of work on the project per credit hours. Prerequisites: CHEM 492 and permission of instructor and the Department of Chemistry and Biochemistry.	IND	3	3
CHEM	494	ADV CHEM RESEARCH	An additional laboratory/computational investigation of a chemical problem under the supervision of a chemistry faculty member. Approximately 120 hours per semester. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Prerequisite: CHEM.493 and approval of the chemistry department. This course may be repeated.	IND	3	3
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	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

COMMDIS	505	PRESCHOOL LANG DIS	This course helps prepare speech-language pathologists to evaluate and manage developmental communication disorders in preschool children in collaboration with families, educators, and other related service providers. The course will facilitate student application of research to practice, development and evaluation of program practices, and implementation of appropriate practices for young children to enhance communication development. Prerequisites: Admission into Graduate Program.	LEC	3	3
COMMDIS	506	PROF ISSUES 1	The course equips the school-based speech-language pathologists to implement the Individuals with Disabilities Education Act. The course covers multiple facets of the law including disabilities covered by IDEA, the evaluation process, development of an Individualized Education Plan, progress monitoring, transition, mediation and due process. Prerequisites: Admission into Graduate Program.	LEC	1	1
COMMDIS	509	COMM DIS ELL	The course is designed to equip students with the skills necessary to properly evaluate and treat the communication disorders of children from diverse cultural and linguistic backgrounds including those acquiring English as a second language. Course content will address concepts and principles related to speech-language service delivery while highlighting issues specific to different races, ethnicities and cultures. Issues related to the acquisition of a second language with specific speech-language behaviors that may masquerade as communication deficits will be discussed. Federal provisions for providing services to such children will be discussed along with strategies for promoting family involvement while maintaining cultural sensitivity. Prerequisites: Admission into Graduate Program.	LEC	3	3
COMMDIS	513	PROF ISSUES 3	This course covers service delivery models appropriate for use in the school setting by speech-language pathologists. Individual and group models of service delivery are discussed with emphasis placed in models that occur in the least restrictive environment. Consultation, collaboration and co-teaching models also are discussed with strategies for effective implementation by the speech-language pathologist. Prerequisites: Admission into Graduate Program.	LEC	1	1
COMMDIS	521	PRACTICAL EXPERIENCE	This first practical experience prepares students in all aspects of clinical management to serve students with communication and swallowing disorders in the school setting. Students acquire necessary knowledge and skills in preparation for their student teaching experience. Prerequisites: Admission into Graduate Program.	CLN	1	1
COMMSTUD	102	INTRO COMM STUDIES	Introduces students to the field of communication studies by providing an overview of major areas of research, highlighting the relevance of key disciplinary concepts to the analysis of human communication in everyday life. Students will learn about both established scholarship and emergent trends in the field. Completion of the course will yield a broad overview of the discipline and a basic understanding of its theories and methods. This large lecture course is open to all students. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None.	LEC	3	3
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	205	UNDERST SOCIAL INFL	Provides students with a historical overview of theories that enhance understanding of how to facilitate cooperation among others, shape social values, and influence decision making. Equipped with this knowledge, students will be better prepared to advocate and lead in public affairs. This course is primarily designed for Communication Studies students and other students interested in rhetoric and influence. COMMSTUD.103 Public Speaking is recommended as a pre-requisite, but not required.	LEC	3	3
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	EXAMINING COMM	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	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	306	COMPUTER APPLICATNS	Familiarizes students with a variety of computer programs used in the field of communication studies. Students will learn the theory and procedures of desktop publishing, multimedia presentations, and website design. This course can be offered both on-site and through distance education, is part of the communication studies major, and is open to any undergraduate student who meets the prerequisites. Three hours lecture per week. Prerequisites: COMMSTUD.103 Public Speaking, or by permission of instructor.	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	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	COMM 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	424	CORPORATE COMMUNIC	Focuses on advanced communication skills for students exploring career opportunities as a publicist or corporate writer in an organization, or an independent communication consultant. As an overview of the corporate communication process, it includes information about organizational planning, audience analysis, professional guidelines and writing standards, evaluating and solving corporate communication problems, critical analyses of corporate communication cases, designing strategic corporate crisis communication programs, qualitative and quantitative research, design and layout of publications, and use of computers in publication and presentation. 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
COMMSTUD	470	INDEPENDENT STUDY	Provides for individual work and study in one of the areas of rhetoric and communication. Student finds a faculty sponsor, prepares a written proposal that requires departmental recommendation and the dean's approval, arranged through the chairperson. See section on Independent Study. Prerequisites: Completion of either COMMSTUD.205 or COMMSTUD.215, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD 210, COMMSTUD.220), or by permission of instructor. Students must have earned a minimum grade of C in COMMSTUD.207 and COMMSTUD.209.	IND	1	3
COMMSTUD	497	INTERN COMMUNICATION	Integrates classroom experience with practical work experience in industrial, business, non-profit, educational, or government work settings. Students must establish the academic integrity of their proposed experience and its relevance to course work in the major. This internship serves as the capstone experience for Communication Studies majors who meet the prerequisites. Prerequisites for applying for the Internship in Communication: minimum 2.5 GPA, scheduled to complete 80 credit hours, completion of core requirements for the major (COMMSTUD 103, COMMSTUD 104, COMMSTUD 106, COMMSTUD 207, COMMSTUD 209, COMMSTUD 220, and one of the following: COMMSTUD 205 or COMMSTUD 210 or COMMSTUD 215), and scheduled to complete three 300/400-level courses within the major, at least one of which is a 400-level course in the students' area of concentration.	SUP	3	9
COMPSCI	110	INTRO COMPUTER SCI	Presents an introduction to computers, how computers process and manage data, are controlled, and their use in problem solving. Fundamental concepts include hardware, I/O systems, data communications, usage of the World Wide Web, building web pages, and programming in a language such as JavaScript, Visual Basic, or Python. Applications such as word processing, spreadsheets, presentation software, and database are included. Three hours of lecture per week. Not appropriate for a student who has taken Computer and Information Systems MISCIS.150. Students may not earn credit for both courses.	LEC	3	3
COMPSCI	120	COMPUTER ETHICS	The course considers ethical issues associated with all aspects of computing and creates an awareness of codes of ethics that have been adopted by various professional organizations. The course acquaints students with the implications of these codes in the context of Bloomsburg University. One hour of lecture per week.	LEC	1	1
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	123	VISUAL BASIC 1	Visual Basic 1 provides an introduction to programming using Visual basic .Net. The course is designed for teaching students with little or no programming experience. Students are introduced to object oriented programming principles, event driven programming, and Graphical User Interface (GUI) design. The students learn the syntax of Visual basic.net language including data types, control structures, and object oriented programming concepts. The projects include creating games and event-driven applications that will allow users to access and manipulate data from sequential text files. Three hours of lecture per week.	LEC	3	3
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 Paces and XML. Four hours of lecture per week. Prerequisite: COMPSCI.122.	LEC	4	4
COMPSCI	223	VISUAL BASIC 2	This course is a second course in programming with Visual Basic.Net programming language. All students are expected to have successfully completed 56.123- Visual Basic 1. The goal of this course is to provide the student with in depth knowledge for designing and implementing windows based event driven applications that access databases. Special attention is given to ADO.Net technologies that are used to develop real world applications. Students will also learn to work with Crystal Reports. Three hours of lecture per week.	LEC	3	3
COMPSCI	240	EMBED SYSTEM LANG	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	348	DATA MINING	The goal of this course is to understand the concepts and issues involved in data mining and learn how to apply current software for tree-structured data analysis to real-world problems. Three hours of lecture per week. Prerequisites: MATH.141 or MATH.241 and MATH.185 and COMPSCI.115 or COMPSCI.121.	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	DATA BASE 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	386	OPERATING SYSTEMS	A study of the foundations of modern operating systems along with the concurrent programming problems associated with these systems. Students will write and test their own solutions to some of these problems. Problems encountered in the development of all modern systems will be covered along with possible solutions. Three hours of lecture per week. Prerequisite: COMPSCI.221 and COMPSCI.255.	LEC	3	3
COMPSCI	491	SPECIAL TOPICS	Presents an area of computer science which is not available as a regular course offering. Three hours of lecture per week. Prerequisite: Consent of the instructor.	LEC	3	3
COMPSCI	493	COMP SCI RESEARCH 2	Continued investigation of a computer science research problem for advanced students. Students will pursue investigation and design efforts on a computer science problem. The activity may be a continuation of research conducted for COMPSCI.492.	IND	1	3
COUNSEL	500	INTRO TO HELP PROF	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	502	CAREER DEVELOPMENT	This course allows graduate counseling students to explore in depth selected aspects related to vocational psychology, occupational sociology, career development, career choices, career decision-making, career counseling and guidance, and other career-related issues and behaviors. The course is designed to acquaint students with the basic theories and constructs that are essential to the understanding and implementation of career development through the life span. Systems of career education, occupational information, decision-making strategies, and life-work planning for special populations are examined. Pre- or Co- requisite: COUNSEL.500.	LEC	3	3
COUNSEL	505	COUNS CONSULT THEORY	Examines selected theories currently applied in individual, group, and family counseling. The various techniques associated with counseling modalities are also explored in relation to their respective therapies. A variety of issues that counselors may confront will be introduced along with strategies for employing the studied theoretical approaches, and the ethical dilemmas that may accompany these challenges. May be offered in traditional and distance education formats. Prerequisites: COUNSEL.500.	LEC	3	3
COUNSEL	508	APP TRAIN TECH COUNS	This course presents an overview of the assessment of individual differences through group tests and measurements. It develops competencies in selecting, administering, and interpreting group intelligence, aptitude, achievement, interest, and personality instruments. It also examines current research involving assessment relative to educational, social, and industrial settings. Prerequisite: COUNSEL.505. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
COUNSEL	510	GRP COUNS LEAD SKILL	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	512	MALADPTVE BEHAVIOR	This course assists students in understanding both adaptive and maladaptive behavior across the life span, with particular attention given to child, adolescent and young adult behavior. It provides students with foundations to assess, differentiate and diagnose various mental disorders based on the current Diagnostic and Statistical Manual of Mental Disorders (DSM). It will also focus on etiology, symptomatology, treatment, and prognosis of various disorders, as well as the associated biological, personal, and social characteristics. It also examines aspects of resiliency, buffers against stress and mental illness, and adaptive functioning based on race, culture and gender differences. Prerequisites: Graduate Student Status.	LEC	3	3
COUNSEL	515	ORGANZ AND DEVELOP	This course prepares students to function productively in entry level and mid-level supervisory positions within institutions/organizations that serve the needs of a specified group of persons. It stresses both theory and application as students experience the cyclical process of program development and modification. It also teaches selected leadership and management roles and functions in organizational settings, as well as proposal writing and working with grants. Prerequisite: COUNSEL.500.	LEC	3	3
COUNSEL	520	LIFE SPAN PSYCHOLOGY	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	MULTICULTURAL CNSLN	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	533	ISSUES IN EL. CNSLG	This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
COUNSEL	550	SEC SCHOOL COUNSLNG	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
COUNSEL	555	ISSUES IN SEC. CNSLG	Studies the incorporation of counseling programs into the total school community based on the frame work of the American School Counseling Association (ASCA) National Model. Contemporary issues are explored as they relate to reducing and eliminating barriers to educational opportunity for every student. Major societal and educational changes impacting students are investigated. The roles of a school counselor as a leader, consultant, collaborator, and coordinator are reviewed. May be offered in traditional and distance education formats.	LEC	3	3

COUNSEL	560	INTR STUDNT AFFAIRS	Examines and critiques theories of college student development and how college shapes the formation of one's identity. In keeping with our scholar-practitioner mode, this course also considers how these theories are applied in a contemporary college setting. This course serves as a foundation for all college student affairs coursework and subsequent field experiences. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
COUNSEL	565	ISSUES IN STDNT AFFR	Examines and critiques an array of contemporary and historical issues in college student affairs specifically and higher education in general. This course has a special focus on ethical, legal and leadership issues and how these concepts relate to and influence various issues in college student affairs. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
COUNSEL	590	RESEARCH DESIGN	Surveys various concepts, theories and methods related to research conducted in an educational setting. Students will review, analyze, critique and design research using quantitative, qualitative and mixed methods strategies. Critical analysis of existing research literature and research ethics are also presented. Students will develop and refine their educational writing through course assignments and completion of a comprehensive and professionally relevant final paper. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
COUNSEL	596	PRAC. ORIENTATION I	The Practicum Orientation I course serves as the introduction to the students' practicum experience. Students enrolled in Practicum Orientation I will begin their field experience in the fall or spring semester. Students will spend the first five weeks of the semester working 10-20 hours per week at an elementary school, secondary school, or college/university campus. Students will be given graduated field-tasks to introduce them to the role of the counselor in an elementary school, secondary school, or college/university setting. Students then increase their practicum hours to 15 to 25 hours per week for the remainder of the semester and assume the responsibilities of an independent school or college/university counselor. The course instructor will conduct two site visits per semester for each student enrolled the Practicum Orientation I course. Prerequisites: COUNSEL.500, COUNSEL.502, COUNSEL.505, COUNSEL.508, COUNSEL.510, COUNSEL.512, COUNSEL.515, COUNSEL.520, COUNSEL.525, COUNSEL.590 or approval by the program coordinator.	CLN	2	6
COUNSEL	597	PRACTICUM I	The Practicum I course serves as the introduction to the students' practicum experience. Students enrolled in Practicum I will be completing their second semester of field experience in the fall or spring semester. Students will spend between 15 and 25 hours per week at an elementary school, secondary school, or college/university campus. Students in this course have assumed the responsibilities of an independent school or college/university counselor having completed all requirements in the Practicum Orientation I course. The course instructor will conduct two site visits per semester for each student enrolled the Practicum I course. Prerequisites: COUNSEL.500, COUNSEL.502, COUNSEL.505, COUNSEL.508, COUNSEL.510, COUNSEL.512, COUNSEL.515, COUNSEL.520, COUNSEL.525, COUNSEL.590, COUNSEL.596 or approval by the program coordinator.	CLN	2	6

COUNSEL	598	PRACTICM SUPERVISION	The Practicum Supervision course is offered in conjunction with the students' practicum experience. Students enrolled in Practicum Orientation I, Practicum I or Practicum II will complete a portion of their fieldwork experience in the fall or spring semester. These students also receive supervision provided a full-time core faculty member at the university through this course. Students receive 1 hour and 45 minutes of group supervision per week and up to 16 hours of individual supervision per semester. Students are required to successfully pass both sections of the Counseling and Conceptualization Competency Examination (CCC) during the Practicum Supervision course to matriculate in the counseling program. Prerequisites: COUNSEL.500, COUNSEL.502, COUNSEL.505, COUNSEL.508, COUNSEL.510, COUNSEL.512, COUNSEL.515, COUNSEL.520, COUNSEL.525, COUNSEL.590 or approval by the program coordinator. Co-Prerequisites: COUNSEL.600, COUNSEL.602 or COUNSEL.604.	LEC	1	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	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	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	420	CRIME & INEQUALITY	Focuses on the interaction between socio-economic status, race, ethnicity, gender and crime, specifically the relationship between these categories of offending, patterns of victimization, and treatment by the criminal justice system. These categories, or social roles, are understood both as characteristics that may relate to social inequity, as well as forms of group or social identity that have historically structured both the quantity and type of offenses as victimizations. May be offered through a traditional lecture or distance education format. Prerequisite: 12 credits in criminal justice or permission of the instructor.	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	495	CRIM JUST INTERNSHIP	Participate in an on-the-job apprenticeship in which students are exposed to the responsibilities, skills and activities necessary to accomplish a job in a criminal justice agency, including public and private, local, state and federal, investigatory and correctional agencies. Pass/fail only. Internships will be completed in accordance with current policies of the Center for Professional Development and Career Experience in securing affiliation agreements and with other institutional requirements. Prerequisites: 60 or more credits or permission of instructor.	SUP	3	9
DANCE	111	DANCE HISTORY	Explorers discover dance practices from both historic and contemporary times while spanning the international dance globe. This lecture-based course examines the work of multiple communities, artists, and companies that forever changed the world. Students will gain an awareness of how various cultures have added to the development of dance and life as we know it today, while also gaining tools for how to view and discuss varied dance forms and behind-the-scenes jobs. Explorations will include learning some fun basic dance steps, and selecting group presentation topics of interest, creating a broader context for the discussion and appreciation of the overall form. Open to students of all majors; required of Dance minors. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None.	LEC	3	3
DANCE	221	INTERMEDIATE BALLET DANCE II	Explores ballet dance from an artistic, intellectual and physical approach. Through exposure to floor-barre, standing barre, traveling and center based exercises; students will gain a greater sense of alignment, anatomical principles, musicality, and self-awareness. Additionally, through studying the repertoire of professional ballet companies, students will be able to recognize the elements that define classical vs. contemporary ballet dance, and the importance of both to the dance landscape. Prior exposure to ballet dance is preferred. Instructor approval will be given during the first week of classes to determine appropriate placement. This course counts as a Group A, Humanities and The Arts General Education Requirements/ This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement. Prerequisites: None (It is recommended that the student have previous ballet experience.)	ACT	3	3

DANCE	223	Intermediate Jazz Dance II	Explores jazz dance from an artistic, intellectual and physical approach. Students will experience multiple styles ranging from lyrical to Broadway to hip-hop/funk through various exercises and choreographic studies, while focusing on the development of expressive performance skills. Additionally, the life and work of the master jazz artist Bob Fosse will be examined in-depth through films and classroom based discussions/experiences. Prior exposure to jazz, modern or ballet dance is required. Instructor approval will be given during the first week of classes to determine appropriate course placement. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisite: EXERSCI.117 or *instructor permission. (*It is required that students have previous jazz, modern or ballet dance experience. Non-University studio training is acceptable.)	ACT	3	3
DANCE	290	Special Topics (3)	Examines various special topics from an artistic, intellectual and physical approach. On a rotating basis, these topics may include Tap, Improvisation, The Alexander Technique, African Dance, Dance Pedagogy, or other, and will serve to add depth and diversity to the Dance Program. Students will explore these topics through various exercises, discussions, class films, choreographic studies, and texts as appropriate. Prior exposure to jazz, modern or ballet dance is preferred, and instructor approval will be given during the first week of classes to determine appropriate placement, as needed. This course counts as a Group A, Humanities and The Arts General Education Requirements/This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement. Prerequisites: None (It is recommended that the student have previous jazz, modern or ballet dance experience.) May be repeated for credit without limit.	SEM	3	3
DEAFHH	153	INTRO SIGN LANGUAGE	A study of sign language vocabulary and finger spelling techniques used in communication with members of the deaf community. Emphasizes developing expressive and receptive skills. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements. Three hours lecture per week.	LEC	3	3
DEAFHH	201	HIST ED GUID DEAF/HH	Explores the education of deaf/hard of hearing individuals with emphasis on the history of educational procedures and guidance in communication, psychological and vocational habilitation. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
DEAFHH	461	DEAF/HH TECHNOLOGY	Students will develop the skills of a trained observer and will participate in observation of the practice of education of the deaf/hard of hearing via the Polycom Viewstation and on-site visitations. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
DEAFHH	462	ASL/SIGNED ENGLISH	Develops skills and competencies in the different expressive and receptive methods of signing English. This course also assists students in planning and teaching lessons in simultaneous communication in various educational settings required for Pennsylvania Department of Education and the Council on the Education of the Deaf certification. Three hours lecture per week. Prerequisite: DEAFHH.201 and ASLTERP.226.	LEC	3	3
DEAFHH	469	CURR SUBJ DEAF /HH	Develops effective planning, teaching and collaboration skills through evidence based practices to meet the curricular and instructional needs of students who are Deaf/hard of hearing required for Pennsylvania Department of Education and the Council on the Education of the Deaf certification. May be offered in traditional and distance education formats. Prerequisites: DEAFHH.201, ASLTERP.226, AUDSLP.200, SPECED.202 and SPECED.275.	LEC	3	3

DEAFHH	562	ASL/SIGNED ENGLISH	Develops skills and competencies in the different expressive and receptive methods of signing English. This course also assists students in planning and teaching lessons in simultaneous communication in various educational settings required for Pennsylvania Department of Education and the Council on the Education of the Deaf certification. Three hours lecture per week. Prerequisite: Admission into the Education of the Deaf/HH Graduate Program.	LEC	3	3
DEAFHH	569	CURR SUB DEAF & HOH	Develops effective planning, teaching and collaboration skills through evidence based practices to meet the curricular and instructional needs of students who are	LEC	3	3
DEVSTUDY	100	COLLEGE STUDY SKILLS	Focuses on the development and application of learning and study strategies that contribute to academic success. Learning strategies include techniques for note taking, studying of textual material, synthesizing course content, and preparing for and taking exams. The course is designed to support students in developing valuable study habits which will concentrate on critical thinking strategies and the individual's responsibility to learning. ENRICH 100 is a free elective and credit applies towards graduation. This course is open to all students. Prerequisites: NONE	LEC	1	1
DEVSTUDY	103	MINDFULNESS	Introduces the mind as a limit and a possibility. Studies mindfulness practice as a tool for mastery orientations to learning in personal and professional endeavors. Investigates core beliefs and ethical perspectives informed by mindful awareness. The course can be offered both on-site and through perspectives informed by mindful awareness. 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. Prerequisite: None.	LEC	3	3
DEVSTUDY	120	COL RDG/STUDY SKILLS	Focuses on complex reading and study skills essential for college learning and meeting academic demands of college. The course is intended for students who have adequate or advanced reading skills and strive to develop more efficient and effective critical reading, thinking, and study strategies. Students will also learn about vocabulary development, flexible reading rate, active reading techniques, and preparing for and taking exams. Analytical and critical reading skills (including topics such as evaluating sources, recognizing author's purpose, tone, and bias) are emphasized and applied to a wide variety of academic topics. This course is primarily lecture and discussion. A student may not take both ENRICH 100 - College Study Skills and ENRICH 120 College Reading and Study Skills concurrently. ENRICH 120 is a free elective and credits apply towards graduation. Prerequisites: NONE	LEC	3	3
DEVSTUDY	25	READING 2	Course presents major components of the reading process and emphasizes basic reading skills. A prerequisite for College Reading and Study Skills for students scoring below the established cutoffs on the Nelson Denny Reading Test. Three semester hours towards full-load status; grade counted in GPA. Does not apply toward graduation.	LEC	3	3
DEVSTUDY	60	WRITING 2	Required of students whose SAT-V scores fall below a standard set by the university and whose writing samples confirm need. Students refine basic writing skills in context of varied writing assignments that address given rhetorical situations. Assignments call for specific evidence and responsible generalization from that evidence. Class work may include conferencing, collaborative work, student presentations, reading and discussion as well as writing. Three semester hours towards full-load status; grade counted in GPA. Does not apply toward graduation.	LEC	3	3

DEVSTUDY	80	INTRODUCTORY ALGEBRA	Presents mathematical topics and applications in a context designed for students with minimal algebraic skills as evidenced by student preparation and results obtained in diagnostic tests. Introductory Algebra is designed to promote success in Intermediate Algebra. It is suitable for students who have a limited or no background in algebra. 1 to 2 lab hours may be required weekly. Grades earned in this course are factored in students GPA, however, the credits from this course do not apply toward graduation. Prerequisites: None; Entry by placement tests.	LEC	3	3
DEVSTUDY	90	INTERMEDIATE ALGEBRA	Presents mathematical topics and applications in a context designed to promote success in college level math courses. It is suitable for students who have a limited background in algebra. 1 - 2 lab hours may be required weekly. Grades earned in this course are factored in students' GPA, however, the credits from this course do not apply toward graduation. Prerequisites: Successful completion of Introductory Algebra or entry by placement tests.	LEC	3	3
DEVSTUDY	99	INTENSIVE ENG ESOL	Designed for entering international students who score at least at the ACTFL level 1+ on a departmentally-administered oral placement test, but who have low TOEFL scores or who wish to improve English skills preparatory to enrollment in other classes. Provides 90 hours of conversation and acculturation in the company of native English speakers, together with some practice in writing and grammar. Credit does not apply toward graduation.	LEC	3	3
DIGFOR	117	INTRO DIGITAL FRNSC	An introduction to the command line environment and the concepts and hardware needed to do elementary forensic analysis and data recovery on the FAT (File Allocation Table) systems using only a hex editor. Three hours of lecture per week.	LEC	3	3
DIGFOR	217	FILE SYSTEMS 1	An introduction to basic digital forensic methodology and analysis of File Allocation Table (FAT) file systems with an emphasis on forensic information from slack space, unallocated space and windows artifacts obtained using DOS tools and techniques. Three hours of lecture per week. Prerequisite: A grade of C- or better in DIGFOR 117 or COMPSCI 117	LEC	3	3
DIGFOR	317	D.F. SOFTWARE	Examines various file systems and Windows operating system versions using industry standard software. A comprehensive study in imaging, analysis and reporting. Three hours of lecture per week. Prerequisite: A grade of C- or better in DIGFOR 122, and 45 earned credit hours (or permission of the instructor.)	LEC	3	3
ECONOMIC	121	PRIN MACROECONOMICS	Develops basic concepts and tools of Macroeconomics. Topics include the nature of economic problems; economic concepts; institutional frameworks; supply, demand and the price system; national income accounting; determination of output and employment levels; consumption, saving and investment behaviors; inflation and unemployment; business cycles; monetary and fiscal institutions and theories; economic growth. This course targets a broad-based audience that includes but is not limited to freshmen. The goal of the course is to introduce students to the economic way of thinking and help them gain insight into how the economy works. May be offered in traditional and distance education formats. Prerequisites: None. This course earns three GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week.	LEC	3	3

ECONOMIC	122	PRIN OF ECONOMICS 2	Dedicated to understanding how individuals, groups, and firms make decisions about allocating their scarce resources (time, money, natural resources, etc.). In this course, undergraduate students from all majors investigate topics such as the determination of prices in a free market system, the analysis of taxation and government regulation and an examination of different market structures. They also see the sense in which market economies are efficient and the ways in which the government can make our economy less or more efficient. The goal of the course is to introduce students to the economic way of thinking and to help them gain insight into how the economy works. Required for Economics majors; open to all students. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. May be offered in traditional and distance education formats.	LEC	3	3
ECONOMIC	156	BUS & ECON MATH	Presents an introduction to basic mathematical tools frequently employed in Business and Economics, e.g., systems of linear equations, inequalities, logarithms, and mathematics of finance; and prepares students for the concepts of optimization. The course targets a broad-based audience that includes, but is not limited to freshmen. The course is one of the approved Foundational Mathematics courses and offer 3 GEPs for Goal 3. The goal of the course is to introduce to students how mathematics can be used to design, evaluate, and solve quantitative problems related to Business and Economics. Course may be offered face-to-face or distance ed.	LEC	3	3
ECONOMIC	180	SPECIAL TOPICS		LEC	1	3
ECONOMIC	221	MACRO-ECON THEORY	Stresses the national income analysis; theory of income determination, employment and price levels; monetary and fiscal institutions; theory and policy; investment, interest and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages and aggregate supply, economic growth, foreign trade and balance of payments; economic policy. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: ECONOMIC.122 or ECONOMIC.212, ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.156 or MATH.123 or MATH.125.	LEC	3	3
ECONOMIC	222	MICRO & MANAGERIAL	Reviews the theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resource and distribution of income; comparison of behaviors of competitive, monopolistic and oligopolistic product and resource markets; constrained and nonconstrained optimization techniques and their applications to business decisions and business practices; welfare economics. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: ECONOMIC.122 or ECONOMIC.212, ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.156 or MATH.123 or MATH.125.	LEC	3	3
ECONOMIC	256	BUS & ECON STAT 1	Studies the organization and presentation of data, descriptive statistics, elements of probability and probability distributions, sampling and sampling distributions, estimation and hypothesis testing, and correlation as applied to business and economic problems. The course will introduce students to the presentation and analysis of business and economic data. The method of instruction is based on lecture, discussion and problem solving. The course is required for majors. Three hours lecture per week. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: ECONOMIC.121 or ECONOMIC.122.	LEC	3	3

ECONOMIC	313	LABOR ECONOMICS	Presents the economics of the labor market, the supply of and demand for labor, the nature of theory and wages, productivity and inflation, unionism, theories of the labor movement, collective bargaining and public policy. A major focus is the relationship between labor markets and gender and racial issues. For each of the economic issues, the implications with respect to gender and race will be examined. The goal of the course is to introduce students to economic analysis and empirical data which emphasize Labor Market differences by race, gender and international comparisons. The method of instruction is based on lecture, discussion and problem solving. This course serves as an Economic elective and is open to all majors. Three hours lecture per week. This course earns two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: ECONOMIC.121 and ECONOMIC.122.	LEC	3	3
ECONOMIC	329	ENVIRONMENTAL ECON	A study of the economics of environmental quality. Examines environmental facts and social circumstances with particular emphasis on market and non-market solutions to the environmental problems. Topics include the private market and its efficiency, externalities, environmental quality as a public good, income distribution effects of government environmental quality as a public good, income distribution effects of government environmental programs; water resources and water quality, problem of air quality and quality of life and other environmental problems; prohibitions on and regulation of polluting activities, taxes, subsidies and effluent charges; population, economic growth and environmental quality. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.122 or ECONOMIC.212.	LEC	3	3
ECONOMIC	340	ECON OF MIDDLE EAST	Analyzes patterns of economic and institutional development in the Middle East; assesses the general trends in economic growth, investment, and institutional changes; and examines specific issues such as population and human development, economics and politics of oil and trade, the structure of state and its role in economic development, financial markets and Islamic banking, and business environment. Prerequisites: ECONOMIC.121 and ECONOMIC.122	LEC	3	3
ECONOMIC	456	INTRO ECONOMETRICS	Applies modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macroeconomics models; income distribution and growth model. This course does not count as a Group B general education requirement. Three hours lecture per week. Prerequisite: ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.122 or ECONOMIC.212 and ECONOMIC.256.	LEC	3	3
ECONOMIC	460	ADV POL ECONOMY	Applies economic and political models of social decision making to historical problems from local through international levels. Presents an evaluation of market; political and mixed techniques in particular areas from the 18th through the 20th centuries. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.122 or ECONOMIC.212.	LEC	3	3
ECONOMIC	497	ECONOMICS INTERNSHIP	Allows students to apply economic knowledge and analytical skills learnt in the classroom to the real world problems in the workplace. Prerequisites: Must be a junior or a senior, have completed ECONOMIC.221 Intermediate Macroeconomic Theory and ECONOMIC.222 Intermediate Micro Theory and Managerial Economics and have the consent of the department chairperson and the supervising faculty. Prerequisites: ECONOMIC.221, ECONOMIC.221.	SUP	3	6

EDFOUND	204	EDUC TECHNOLOGY	Presents the use of technology as a tool to improve the teaching and learning processes. The methodologies and materials used in the course are updated each semester according to current trends, practices, and research in the field of Educational Technology. In addition, technologies used in the course will be the same technologies that are used and available in the PK-12 schools. Although the computers used in this course are primarily PCs, students will also be exposed to the Macintosh platform. Students will also explore other technology devices for the classroom as they become available. It also meets the International Society for Technology in Education (ISTE) National Educational Technology Standards for pre-service teachers. This course earns three GEPs toward Goal 2 Information Literacy in general education. Three hours lecture per week. Prerequisites: None.	LEC	3	3
EDFOUND	206	TCHRS, SCHOOLS, SOC	Introduces students to teaching as a career. The operation of school systems are explored. A study of the various social issues that impact education comprise a major portion of the course. The course provides students an overview of what teaching is all about. It promotes ethical responsibility on the part of the practicing teacher. This course earns one GEPs toward Goal 6 Social Sciences in general education. One hour lecture per week. Prerequisite: None.	LEC	1	1
EDFOUND	251	PSYCH FOUND OF EDUC	A systematic analysis of theories of human motivation, development and learning related to the teaching-learning process. Psychological systems are compared and evaluated in terms of their philosophical bases, ideological commitments and as criteria for the development of models for educational policy and practice. Three hours lecture per week.	LEC	3	3
EDFOUND	291	PRIN OF TEACHING	Introduces students to the teaching process. Diverse instructional strategies and techniques, methodologies, and approaches are explored. Topics include: (1) the manner in which personal characteristics, experience and preparation, context in teaching, the changes in society, and student diversity influence how we teach, (2) developing instructional objectives, sequencing learning activities, and applying various taxonomies while conducting microteaching lessons, and (3) discipline strategies, questioning techniques, differentiated learning activities, and mastery teaching. Class term project includes a unit plan and an evaluative instrument. Three hours lecture per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 4 Cultures and Diversity in general education. Prerequisites: ENGLISH 101 and 30 Earned Credits.	LEC	3	3
EDFOUND	311	CLSRM MEAS & ASSESS	Reviews principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction and interpretation; informal and formal measurement in the cognitive, affective and psychomotor areas and alternative forms of assessment. Three hours lecture per week. Prerequisite: Junior standing.	LEC	3	3
EDFOUND	321	MULTIMEDIA AUTHORIZING	Students will learn to use multimedia programs for presentations, interactive lessons, and student-centered multimedia projects. Students will explore various multimedia authoring systems and examine techniques for the incorporation of sound, video, graphic, animation, and text into multimedia programs. Consideration will be given to multimedia design in the areas of navigation, branching, user-control, and feedback. After completing this course, students will be able to use and multimedia resources for teacher-centered and student-centered classroom activities. Three hours lecture per week.	LEC	3	3

EDFOUND	325	ED TECH FIELD EXPER	The purpose of this course is to provide students with the opportunity to work with a teacher or technology coordinator in a school district to apply some of the latest educational technology practices directly to the classroom. The format for this course will consist of group meetings on campus, online collaboration with the instructor and class, and field applications. Students will reflect upon and share their experiences with the class at the end of the semester. After completing this course, students will be more aware of the shortcomings and successes of using and applying technology in the schools.	FLD	3	3
EDFOUND	406	MULTICULTURAL EDUC	Studies school situations that reflect the cultural diversity of the nation and the world in their social and school goals and curricular and instructional aims and practices. The course provides strategies for accommodating to the cultural norms, values, attitudes, behavior, language, and learning styles of students and for teaching all students to understand and respect their own and other cultures. This course earns two GEPs toward Goal 4 Cultures and Diversity 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
EDFOUND	414	HOME SCHOOL COM RELS	Examines current trends and concerns that characterize the changing American family and draws implications for education. Students will examine family, community, and school structures, patterns, and relationships. They will explore a variety of theories, concepts, principles, and models utilized when implementing effective family, school, and community partnerships. Students will identify and discuss the uses and applications of community and school resources in supporting families and their children. They will learn and simulate techniques for interacting with parents and examine collaboration strategies for interdisciplinary team efforts. 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. Prerequisite: None.	LEC	3	3
EDFOUND	427	CLASS MGT & EFF DISC	Focus on strategies for effective discipline and classroom management. Methods of planning for the beginning of the year and for establishing an effective classroom atmosphere that promotes learning throughout the year are reviewed. Current models and major theories of discipline are reviewed and evaluated. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
EDFOUND	497	TCH ED: FIRST EXPER	The secondary student teaching assignment is determined by the student's area of specialization. Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The student's major determines their assignment: K-6 - one experience in a primary level and one experience in an intermediate level of a public school; N-K-3 - one experience in a preschool situation and one in a primary level of a public school or two experiences in a primary level of a public school.	FLD	6	6
EDFOUND	498	TCH ED: SECOND EXPER	The secondary student teaching assignment is determined by the student's area of specialization.	FLD	6	6
EDFOUND	506	MULTICULTURAL EDUC		LEC	3	3
EDFOUND	514	HOME SCHOOL COM RELS	Examines current trends and concerns that characterize the changing American family and draws implications for education. Students will examine family, community, and school structures, patterns, and relationships. They will explore a variety of theories, concepts, principles, and models utilized when implementing effective family, school, and community partnerships. Students will identify and discuss the uses and applications of community and school resources in supporting families and their children. They will learn and simulate techniques for interacting with parents and examine collaboration strategies for interdisciplinary team efforts. Prerequisites: None. May be offered in traditional and distance education formats.	LEC	3	3

EDFOUND	522	INTERNET FOR TEACHER	An introductory course for teachers who would like to use the Internet as a resource for the classroom. Covers fundamental concepts of access to and using the World Wide Web, sharing ideas for practical classroom applications, evaluating Internet resources, and downloading and maintaining Internet software. Prerequisite is an introductory computer course at the undergraduate or graduate level. Taught on Macintosh computers and completing online assignments requires personal access to the Internet or ability to use university Macintosh labs outside of normal class hours. May be offered in traditional and distance education formats. Three hours lecture per week.	LEC	3	3
EDFOUND	527	CLASS MGT & EFF DISC	Focuses on theories of effective discipline and classroom management. Methods of planning for the beginning of the year and for establishing an effective classroom organization to promote appropriate behavior throughout the year are reviewed. Current models and major theories of discipline are reviewed and evaluated. Three hours lecture per week.	LEC	3	3
EDFOUND	530	GUIDANCE IN ELEM SCH	Covers concepts and techniques of the guidance process in the elementary school, behavioral and developmental problems, and releasing creative capacities of children. Three hours lecture per week.	LEC	3	3
EDFOUND	565	ADV FOUND OF EDUC	This course will provide a systematic analysis of theories of human development, learning and motivation related to the teaching and learning process. Students will investigate and evaluate psychological principles and theories and their implications for classroom decision making. themes underlying effective educational practices will be addressed, including interaction, cognitive processes, relevance, classroom climate, challenge, expectations and diversity. Three hours lecture per week.	LEC	3	3
EDFOUND	573	INTRO TO EDUC ADMIN	Focuses on examination of the functions and tasks of educational administration. Issues include the evolving school setting; the meaning, development, and work of school administrators; educational systems analysis; school personnel administration; administrative and organizational behavior; and career ladders in educational administration. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
EDFOUND	576	SCHOOL LAW & FINANCE	Considers limitations established by local, state, and federal laws relating to the interactions of school personnel. Special attention to recent changes resulting from judicial decisions. Covers fiscal control of education with emphasis on local budgetary problems. May be offered in traditional and distance education formats. Three hours lecture per week.	LEC	3	3
EDFOUND	579	SUPER CURR & INSTRUC	Examines objectives, techniques, and materials of staff supervision; defines the supervisory function directed toward the improvement of instruction with emphasis on the interrelationships between the humanistic aspects of education and democratic administrative behavior; studies roles of contemporary supervision with respect to educational quality assessment, interpersonal relations, and the catalytic role of the supervisor. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
EDFOUND	584	C&I THR DESIGN DEV	Competency-based course consisting of elements that provide a base in relevant theory associated with the activity of curriculum development. A review, critique, and evaluation of current theoretical positions and design methodology are an integral part of the course. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3

EDFOUND	585	CURR & INSTR EVAL	Focuses on the use of current theory and practice for the evaluation of school curriculum and instruction. Reviews, critiques, and applications of current frameworks and practices in curriculum development, professional development, and instructional evaluation are integral components of this course. Three hours lecture per week. This course satisfies PDE guidelines for Inclusive Classrooms and Standards Aligned Systems (SAS). This course may be offered via distance education or in the traditional classroom setting.	LEC	3	3
EGGS	100	INTRO TO ENVIRON SCIENCE	Provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for mitigating and/or preventing them. This course is appropriate for all students, has no prerequisites, and is required for majors in Environmental, Geographical, and Geological Sciences. The course is comprised of three hours of lecture per week. Out-of-class field trip with a modest fee is required. This course earns three GEPs toward Goal 5 Natural Sciences in general education.	LEC	3	3
EGGS	101	INTRO TO PHYSICAL GEOGRAPHY	Investigates the physical processes that create, maintain and modify Earth's physical features, including those that operate in the atmosphere, hydrosphere, lithosphere and biosphere. Emphasis is placed on how people interact with the physical landscape. This course is appropriate for all students and has no prerequisites. The course is comprised of three hours of lecture per week. This course will earn one GEP toward Goal 3 Analytical and Quantitative Skills general education and two GEPs toward Goal 5 Natural Sciences general education.	LEC	3	3
EGGS	102	WORLD CULTURAL GEOG	Investigates the relationships humans, land, culture, and economic activities from a geographic perspective. Demonstrates the tension between two important themes - globalization and cultural diversity - at local, regional, and global scales. This course is appropriate for all students and has no prerequisites. This course is comprised of the hours of lecture and discussion per week. This course will earn two GEPs toward Goal 4 Cultures and Diversity general education goal and one GEP toward Goal 6 Social Sciences general education.	LEC	3	3
EGGS	103	DINOSAURS	Explores the nature of scientific and fundamental concepts in earth history using dinosaurs as the platform. Dinosaurs and their relatives are used to examine: the nature of science; methods employed to determine the geologic age of rocks and fossils; processes of fossilization; the origin and extinction of organisms; how paleontologists find, excavate, reconstruct, and interpret the behavior of extinct organisms; how scientists are able to interpret the environments in which extinct organisms lived; and how dinosaurs are portrayed in past and present media, both scientific and popular. Fieldtrip(s) may be required. This course will earn three GEPs toward Goal 5 Natural Sciences general education.	LEC	3	3
EGGS	104	WORLD REGIONAL GEOG	Investigates the interaction between physical phenomena and human activity, the distribution of economic development, and the uniqueness of each world region. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture per week. This course will earn two GEPs toward Goal 6 Social Sciences general education and one GEP toward Goal 4 Cultures and Diversity general education.	LEC	3	3

EGGS	105	ENVIR ISS & CHOICES	Examines contemporary environmental resource issues with a values, ethics, and decision-making framework. A selection of issues is examined within a natural sciences and social sciences (geographic) context, with a focus on raising student's awareness of the connections between (a) environmental values and ethics and (b) environmental resource use and management. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture and discussion per week. This course will earn one GEP toward Goal 2 Information Literacy general education, one GEP toward Goal 5 Natural Sciences general education, and one GEP toward Goal 6 Social Sciences general education.	LEC	3	3
EGGS	106	THE PLANETS	Introduces students to the origin, evolution, and geology of the planetary objects within the solar system, paying particular attention to their physical and dynamical properties, their relationships to each other, and prospects for extraterrestrial life. Emphasis will be placed on the results of recent and current planetary missions. An out-of-class field trip with a modest fee may be required. Prerequisites: None.	LEC	3	3
EGGS	107	NATURAL DISASTERS	Explores principles of Earth's internal and external processes through an examination of their manifestations as naturally-occurring disasters and the resultant impact on human life and property. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture per week. This course will earn three GEPs toward Goal 5 Natural Sciences general education.	LEC	3	3
EGGS	120	PHYSICAL GEOLOGY	Studies the composition and structure of the Earth and the internal and external processes that shape the surface of our planet. The laboratory introduces fundamental geological techniques including rock and mineral identification and classification, map interpretation and qualitative and quantitative analysis. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required.	LAB	4	4
EGGS	120	PHYSICAL GEOLOGY	Studies the composition and structure of the Earth and the internal and external processes that shape the surface of our planet. The laboratory introduces fundamental geological techniques including rock and mineral identification and classification, map interpretation and qualitative and quantitative analysis. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required.	LEC	4	4
EGGS	221	ECONOMIC GEOGRAPHY	Reviews major economic activities; focuses on significant characteristics, location theory and spatial patterns. This course meets for three hours of lecture per week. Field trips may be required.	LEC	3	3
EGGS	242	MAP USE AND ANALYSIS	Uses a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view toward the future. This course has no prerequisites and is comprised of three hours of lecture per week.	LEC	3	3
EGGS	250	ELEMENTS OF PLANNING	Acquaints students with the history, theory and philosophy of planning, the roles of the planner and planning objectives. This course has no prerequisites and is comprised of three hours of lecture per week.	LEC	3	3
EGGS	255	METEOROLOGY	Studies the atmosphere and weather forecasting with emphasis on answering questions about weather and climate that arise in our day-to-day lives. The course is at an introductory level and conveys concepts in a visual and practical manner. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture per week. This course will earn three GEPs toward Goal 5 Natural Sciences general education.	LEC	3	3

EGGS	259	OCEANOGRAPHY	Introduces students to the geologic, chemical, physical and biologic aspects of the ocean basins. Emphasis will be on ocean basin structure, topographic features, wave motion, circulation, methods of investigation, and present problems of the marine environment. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture per week. This course will earn three GEPS toward Goal 5 Natural Sciences general education.	LEC	3	3
EGGS	261	MINERALOGY	Reviews the origin, occurrence and identifying characteristics of common minerals. Stresses macroscopic and microscopic techniques. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips may be required. Prerequisite: EGGS 120 - Physical Geology, EGGS 150 - Quantitative Methods and CHEM 101 - Introductory Chemistry or CHEM 115 - Chemistry for the Sciences I.	LAB	4	4
EGGS	261	MINERALOGY	Reviews the origin, occurrence and identifying characteristics of common minerals. Stresses macroscopic and microscopic techniques. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips may be required. Prerequisite: EGGS 120 - Physical Geology, EGGS 150 - Quantitative Methods and CHEM 101 - Introductory Chemistry or CHEM 115 - Chemistry for the Sciences I.	LEC	4	4
EGGS	265	GEOMORPHOLOGY	Presents the origin of landforms with emphasis on the geologic processes and structures that generate the landforms and applications of landform analysis. This course is comprised of three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS 120 - Physical Geology and EGGS 242 - Map Use and Analysis.	LAB	4	4
EGGS	265	GEOMORPHOLOGY	Presents the origin of landforms with emphasis on the geologic processes and structures that generate the landforms and applications of landform analysis. This course is comprised of three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS 120 - Physical Geology and EGGS 242 - Map Use and Analysis.	LEC	4	4
EGGS	301	WATER RESOURCES MGNT	Examines contemporary water resource issues related to environmental planning and management. This course meets for three hours per week. Field trips may be required.	LEC	3	3
EGGS	303	SOIL RESOURCES MGMT	Provides a thorough background to the geo-environmental aspects of soil such as its nature and properties, factors of soil formation, classification and geographical distribution. Examines the interpretation of soil surveys and their role in land use and resource planning, conservation and management and environmental quality. This course is comprised of three hours of lecture and two hours lab per week. Prerequisite: EGGS.120 and CHEM.101 or CHEM.115.	LAB	4	4
EGGS	303	SOIL RESOURCES MGMT	Provides a thorough background to the geo-environmental aspects of soil such as its nature and properties, factors of soil formation, classification and geographical distribution. Examines the interpretation of soil surveys and their role in land use and resource planning, conservation and management and environmental quality. This course is comprised of three hours of lecture and two hours lab per week. Prerequisite: EGGS.120 and CHEM.101 or CHEM.115.	LEC	4	4
EGGS	305	ENV RISK HAZARDS	Explores the human and environmental contributions to the generation and management of risks and hazards originating from extreme natural events and technological failures. Reviews contemporary public policy issues at the local, national and international levels with an emphasis on geographic themes in hazards and emerging management technologies. A field trip may be required. This course is comprised of three hours of lecture per week. Prerequisites: EGGS 101 - Introduction to Physical Geography or EGGS 107 - Natural Disasters.	LEC	3	3

EGGS	350	ADVANCE PLANNING	Presents the development of skills and techniques used in analysis, plan preparation, goal setting and implementation of urban and regional planning processes and activities. This course is comprised of three hours of lecture per week. Prerequisites: EGGS 250.	LEC	3	3
EGGS	360	PRINCIPLES OF GIS I	Introduces computer assisted analysis geographic data. Emphasizes spatial data structures, geographic data files, database management, spatial analysis and cartographic design are emphasized. Provides practical experience in GIS through exercises and class activities. The course meets for three hours per week. Prerequisites: EGGS 242 - Map Use and Analysis.	LEC	3	3
EGGS	361	PRINCIPLES OF GIS II	Applies concepts in computer assisted analysis of geographic data. Emphasizes spatial data structures, geographic data files, database management, spatial analysis and cartographic design are emphasized. Provides practical experience in GIS through exercises, class activities, and research projects. The course meets for three hours per week.	LEC	3	3
EGGS	368	STRAT & SEDIMENT	Studies processes and agents which erode, transport and deposit sediments and the geologic interpretation of the resulting rocks. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips will be required as part of this course. Prerequisites: EGGS 261 - Mineralogy and EGGS 265 - Geomorphology.	LAB	4	4
EGGS	368	STRAT & SEDIMENT	Studies processes and agents which erode, transport and deposit sediments and the geologic interpretation of the resulting rocks. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips will be required as part of this course. Prerequisites: EGGS 261 - Mineralogy and EGGS 265 - Geomorphology.	LEC	4	4
EGGS	369	STRUCTURAL GEOLOGY	Teaches students to describe, measure, and analyze rock deformations produced within the Earth on all scales from microscopic to global based upon principles of rock mechanics and utilization of data from field investigations. The course meets for three hours of lecture and two hours of laboratory per week. Field trips will be required as a part of this course. Prerequisites: EGGS.130 - Historical Geology, EGGS.261 - Mineralogy and EGGS.265 - Geomorphology.	LAB	4	4
EGGS	369	STRUCTURAL GEOLOGY	Teaches students to describe, measure, and analyze rock deformations produced within the Earth on all scales from microscopic to global based upon principles of rock mechanics and utilization of data from field investigations. The course meets for three hours of lecture and two hours of laboratory per week. Field trips will be required as a part of this course. Prerequisites: EGGS.130 - Historical Geology, EGGS.261 - Mineralogy and EGGS.265 - Geomorphology.	LEC	4	4
EGGS	460	AQUEOUS GEOCHEMISTRY	Introduces students to basic geochemical properties of surface and groundwater as well as controls on the geochemistry of natural waters. Emphasizes methods of sampling and analysis of natural waters for chemical species pertinent to environmental and pollution studies. The course meets for three hours of lecture and two hours of laboratory per week, with required field trips for sampling. Prerequisite: EGGS 261 - Mineralogy or EGGS 260 - Earth Materials, and CHEM 116 - Chemistry for the Sciences II.	LAB	4	4
EGGS	460	AQUEOUS GEOCHEMISTRY	Introduces students to basic geochemical properties of surface and groundwater as well as controls on the geochemistry of natural waters. Emphasizes methods of sampling and analysis of natural waters for chemical species pertinent to environmental and pollution studies. The course meets for three hours of lecture and two hours of laboratory per week, with required field trips for sampling. Prerequisite: EGGS 261 - Mineralogy or EGGS 260 - Earth Materials, and CHEM 116 - Chemistry for the Sciences II.	LEC	4	4

EGGS	493	RESEARCH	Makes use of the skills and knowledge students have acquired in their required coursework to complete and independent research project with the guidance of a faculty advisor. This course is available every semester. Prerequisites: Professional Geology Track: EGGS 261 - Mineralogy, EGGS 262 - Petrology, and EGGS 368 - Stratigraphy and Sedimentology or Environmental Geoscience Track: EGGS 265 - Geomorphology, EGGS 213 - Fundamentals of Soil Science, and EGGS 271 - Fundamentals of Hydrology.	SUP	3	3
ELEMED	120	INTRO TO EDUCATION	The purpose of this course is to facilitate a successful transition to the Early Childhood and Elementary Education Department at Bloomsburg University. Students will complete 40 hours of field experience and learn about the other requirements for admission to the department. The INTASC standards, Bloom's taxonomy, and conceptual framework will also be addressed. Prerequisites: None.	LEC	1	1
ELEMED	121	INTRO EARLY CHILD ED	This course examines the historical and philosophical foundations of Early Childhood Education. It analyzes current issues, programs and practices relating to children from birth to grade four. Three hours lecture per week.	LEC	3	3
ELEMED	150	INTRO MID LEVEL ED	The purpose of this course is to facilitate a successful transition to the Middle Level Program of Study. Students will complete 40 hours of field experience in a middle level environment, explore the philosophical and historical underpinnings of middle level education, and learn about the other requirements for admission to the department. The Interstate New Teachers Assessment and Support Consortium (INTASC) standards, Blooms taxonomy of three domains, College of Education conceptual framework, ethics and legal responsibilities, and National Middle School Association methodologies will also be addressed. Prerequisites: None.	LEC	1	1
ELEMED	214	TCH RDG EC: BIRTH-K	Examines reading development from birth through emergent literacy. Pre-service teachers will learn about infant, toddler, preschooler, and early childhood development as it directly relates to emergent literacy. These pre-service teachers will also learn instructional techniques to facilitate literacy learning that incorporates a variety of research-based approaches, methodologies, instructional materials, and technologies that will assist early childhood learners literacy development. Three hours lecture per week. Prerequisites: 45 Semester hours.	LEC	3	3
ELEMED	218	TCH MATH EC BIRTH-K	This course develops mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the early childhood learners from birth through kindergarten. Three hours lecture per week. Prerequisites: 45 Semester hours.	LEC	3	3
ELEMED	324	LA & LIT DIVERSE EC	This course will focus on the language and literacy development of young children, birth through fourth grade. Strategies for planning, teaching, and assessing a high-quality early childhood language arts programs will be emphasized. Emphasis will be placed on listening, speaking, and writing skills for the purpose of developing literacy rich curricula and environments that support and advocate diversity. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
ELEMED	329	YCP AS EDU PROCESS	This introductory course examines the significance of young children's play in development, curriculum, and assessment. Additionally, this class will investigate methods of play components appropriate for the educational setting. Developmentally appropriate activities will be emphasized. Three hours lecture per week. Prerequisites: 45 Semester hours.	LEC	3	3

ELEMED	331	TCH SCI & EE PK - 4	The purpose of this course will be to demonstrate and critically discuss methods of teaching science in grades PK-4, to provide science and environmental education knowledge, skills, techniques, and practical teaching experience, and to encourage positive attitudes, self confidence, and motivation to promote science and environmental education in the school and community. Appropriate teaching strategies, materials, and relevant science content will be the focus of discussions and activities. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
ELEMED	334	TCH READ IN EC 1-4	Examines reading development from first grade through fourth grade. Pre-service teachers will learn about elementary school childhood development as it directly relates to literacy skills of phonemic awareness, phonics, fluency, vocabulary, and comprehension. These pre-service teachers will also learn instructional techniques to facilitate literacy learning that incorporates a variety of research-based approaches, methodologies, instructional materials, and technologies that will assist early elementary school learners literacy development. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
ELEMED	336	TCH SOC STUD PK - 4	The course emphasizes methods and materials appropriate for teaching pre-school through grade 4 social studies education in contemporary society. Students will explore planning, assessment, teaching strategies, social sciences, citizenship, and global education. Students will look at social studies in the context of integrated instruction. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Approved BSED Major.	LEC	3	3
ELEMED	338	DIAG RDG PRE K-4	This course examines the diagnostic practices utilized in grades PK-4. Pre-service teachers will learn and apply current research based diagnostic methodology. Application of methods to diagnose strengths/needs in literacy to inform instruction and plan appropriate curriculum will be emphasized. Interventions based on individual children's needs will be defined to support the diagnosis. Three hours lecture per week. Prerequisites: Approved BSED Major.	LEC	3	3
ELEMED	340	TCH MATH ECE	Develops mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the early childhood grades 1-4. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Accepted in BSED Major.	LEC	3	3
ELEMED	343	ASSESS IN ECE	A study of how teaching, learning and assessment are used collectively in grades PK-4. The emphasis is on how teachers can use assessment instruments and data to guide professional practice. Three hours lecture per week. Prerequisites: 45 Semester hours.	LEC	3	3
ELEMED	347	FINE ARTS & DEV CHD	Familiarize students with current theories and pedagogical approaches for nurturing and promoting creative expression, including play, in young children, birth through grade four. Students will learn about the relationship between the arts and learning with particular emphasis on the visual and performing arts such as drawing, music, movement, and drama in the early childhood setting. Attention will be placed on the role of the early childhood educator in planning a creative learning environment that supports a developmentally appropriate and inclusive arts-based curriculum. This course may be offered distance education or in the traditional classroom setting. Three hours lecture per week. Prerequisites: 45 Semester hours.	LEC	3	3

ELEMED	351	SCI/MATH MTH 4-8	Offers candidates a constructivist approach to helping students develop knowledge of science and mathematics in grades four through eight. Teaching strategies are presented with developmental activities that can be used with middle school students. Candidates will reflect on what it means to teach science mathematics and explore the factors that influence teaching. The NCTM Principles and Standards 2000 and NSES Standards for grades 4-8 will be emphasized. Three hours lecture per week. Prerequisites: Approved BSED Major.	LEC	3	3
ELEMED	360	TCH ML LA & SOC ST	This course will focus on providing middle level pre-service teachers instructional strategies for planning and designing curriculum relevant for teaching language arts and social studies to young adolescents, grades four through eight. Emphasis will be made to the interdisciplinary relationship between language and literacy development and the social sciences. Attention will be placed on creating environments that support and advocate the diversity of learners as related to the NCTE and NCSS standards. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
ELEMED	364	TCH READ 4-8	Examines developmental reading from fourth grade through eighth grade. Pre-service teachers shall learn about child/pre-adolescent/adolescent development as it directly relates to instructing the processes of reading skills. These adult-students shall also learn instructional techniques to facilitate literacy learning that incorporates a variety of research-based approaches, methodologies, instructional materials, and technologies that will assist upper-elementary and middle school learners to master narrative and expository texts. Three hours lecture per week. Prerequisite: 45 semester hours.	LEC	3	3
ELEMED	366	READING CNT AREA 4-8	Examines best practices in teaching literacy strategies for content area curriculum in upper elementary through middle school grades. Pre-service teachers shall learn how to integrate reading skills into content-specific courses, i.e., social studies, science, mathematics for students in grades 4-8. New literacies and technologies shall be explored and utilized to support the instructional pedagogy that matches the needs of these children/pre-adolescents/adolescents. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
ELEMED	431	INDEPENDENT STUDY EL	Individual projects in education. Requires consent of the department chairperson.	IND	1	3
ELEMED	494	TCH ED: FIRST EXPER	The student teaching assignment is determined by the student's area of specialization. Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The student's major determines their assignment: K-6 - one experience in a primary level and one experience in an intermediate level of a public school; N-K-3 - one experience in a preschool situation and one in a primary level of a public school, or two experiences in a primary level of a public school.	FLD	6	6
ELEMED	495	TCH ED: SECOND EXPER	see ELEMED.494	FLD	6	6
ELEMED	496	PRACTICUM ECE EL ED	Individually prescribed course of study and activity-based learning and practice teaching. Previous experience and academic achievement reviewed. Consent of program coordinator and department chairperson required. Prerequisite: 64 credits and complete packet. Prerequisite: Approved BSED Major.	SEM	1	6
ELEMED	526	M&M IN SCI & MATH		LEC	3	3
ELEMED	528	LANG ARTS MOD SCHOOL	Studies problems related to instruction in various aspects of the language arts; place of the language arts in the curriculum; current research and its practical application. Three hours lecture per week.	LEC	3	3

ELEMED	530	ENVIRO ED ELEM TCH	This course will (a) provide environmental education knowledge, skills, techniques and (b) encourage the development of positive attitudes, confidence and motivation to promote environmental education in the elementary school. The course is designed for in-service teachers or graduate students having little or no training or experience in environmental education.	LEC	3	3
ELEMED	532	FINE ARTS & PLAY ECE	Familiarize graduate students with current theories and pedagogical approaches for nurturing and promoting creative expression in young children. Students will examine the relationship between play, the arts, and learning. The visual and performing arts such as drawing, music, dance/movement, and drama in the early childhood setting are emphasized. The role of the educator in planning a creative learning environment that supports a developmentally appropriate and inclusive play and arts-based curriculum will be emphasized. This course may be offered online or in the traditional class setting. Prerequisites: None.	LEC	3	3
ELEMED	537	M&M LANG ARTS SOC ST	Offers an approach in curriculum in which social studies and language arts content, skills and methods of instruction are integrated. Particular attention given to creative, integrated activities and learning situations that range from individual inquiry to group interactions. Three hours lecture per week.	LEC	3	3
ELEMED	594	PRACT EARLY CHILD ED	Individually prescribed course of study and activity-based learning and practice teaching. Previous experience and academic achievement reviewed. Practicum proposal required, and consent of program coordinator and department chairperson required.	FLD	6	6
ELEMED	596	PRACTICUM ECE EL ED	see ELEMED.594.	SEM	1	6
ENGLISH	101	FOUND OF WRITING	Provides foundational writing experience and instruction to facilitate first-year students' transition to writing at the postsecondary level by exploring the implications of writers' rhetorical situations (audience, purpose, and media) and of individual and social writing processes (drafting, peer review, and reflection) on the texts they generate. Engages students in critical reading and use of source materials. All students will compile and submit an ePortfolio to the English department. Satisfies the General Education requirement of a foundational course in English Composition that students are expected to fulfill in their first year of enrollment. This course earns three GEPs towards Goal 1 - Communication. Prerequisites: None.	LEC	3	3
ENGLISH	111	LANG SOC INTERACTION	Introduces students to a descriptive approach to language study. Explores fundamental sociolinguistic concepts, focusing specifically on an in-depth study of the relationship between language and culture. Course study is designed to offer students insight into the cultural and historical causes of language variation and change and to emphasize language variation as evidence of human diversity. Open to all majors. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education.	LEC	3	3
ENGLISH	151	INTRO TO LITERATURE	Defines and analyzes the four genres of creative literature-poetry, drama, novel, and short story in order to instill an understanding and appreciation of literature. Special attention is given to the techniques through which literature captures and comments on human experience. The course is designed for students seeking General Education Points in Arts and Humanities and Communication and is conducted in a combination of lecture and discussion, and formal and informal writing assignments. Not applicable toward a major in English. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3

ENGLISH	152	LITERATURE & SOCIETY	Focuses on a particular theme, social issue, ethical dilemma, or area of study or work through readings (and/or screenings) of a range of texts. Provides a literary lens through which to explore the chosen topic. Course focus varies with instructor. The course is designed for students seeking General Education Points in Arts and Humanities and Communication and is conducted in a combination of lecture and discussion, and formal and informal writing assignments. Not applicable toward a major in English. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
ENGLISH	156	POPULAR LITERATURE	Examines literature designed for popular audiences, with emphasis on major themes and forms presented in popular literature. Students will learn to approach this literature analytically and critically and to consider its connection to other literatures and to the culture within which it has developed. Content will be chosen by the instructor and will vary with each offering of the course. The course is designed for students seeking General Education Points in Arts and Humanities and Communication and is conducted in a combination of lecture and discussion, and formal and informal writing assignments. Not applicable toward a major in English. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
ENGLISH	201	COMPOSITION 2	Intermediate-level study and practice in composition, reinforcing and expanding basic writing skills. Instruction in short and long essays and in research-supported writing. This course satisfies 3 credits in communication: the second level writing or writing intensive literature courses for general education/ This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: ENGLISH.101 or consent of department chairperson.	LEC	3	3
ENGLISH	203	APPR TO LIT STUDY	Examines the fundamental elements of literary history, critical and analytical strategies, terminology, research, and writing. Prepares students for advanced techniques of textual analysis, literary research, and the writing of interpretive and research essays. Format is lecture-discussion. Enrollment is restricted to English majors and minors except with permission of the English Department Chair. Typically offered in spring and fall semesters. Prerequisites: ENGLISH 101.	LEC	3	3
ENGLISH	204	INTRO CREATIVE WRIT	Introduces methods and craft of creative writing in prose and poetry forms. Students create and revise their own imaginative works using models by established writers. The course is conducted in a combination of lecture, peer workshop, and discussion. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisite: ENGLISH.101 or permission of instructor. Course offered face-to-face or distance ed.	LEC	3	3
ENGLISH	221	BIBLE AS LITERATURE	Features the reading and analysis of the variety of literary texts in the Judeo-Christian scriptures, with careful consideration of the historical, cultural, psychological and geographical elements that create the foundation of individual texts and serve in creating the canon. This course will also investigate how these texts have worked alongside other secular texts of those periods and beyond. Prerequisites: ENGLISH 101 - Foundations of College Writing or permission of the instructor.	LEC	3	3

ENGLISH	226	EUROPEAN LIT 1	Examines important literary works of the Western tradition from texts of the Ancient Mediterranean and Classical Greece through Renaissance Europe. Lecture/ discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Three hours lecture per week. Prerequisite: ENGLISH.101.	LEC	3	3
ENGLISH	236	AMERICAN LIT 1	Examines American literature and its cultural contexts from its colonial beginnings to the Civil War. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101.	LEC	3	3
ENGLISH	237	AMERICAN LIT 2	Examines American literature and its cultural contexts from the Civil War through the modern era. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101.	LEC	3	3
ENGLISH	246	BRITISH LIT 1	Examines literature in English and in translation, written by authors from the Middle Ages through the 18th century, within the social, political, and cultural contexts of their respective periods. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to Students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101.	LEC	3	3
ENGLISH	247	BRITISH LIT 2	Examines major British authors from 1800 to the mid-20th century, with selected later 20th century literary developments, within the social, political, and cultural contexts of their respective periods. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101.	LEC	3	3
ENGLISH	256	NON-WESTERN LIT 1	Examines the forms, themes and social context of Non-Western Literature from the Middle East and Asia. Major themes include the interaction between literature and the modern world, cultural displacement, identity and cultural politics, globalization, modernization, urbanization, nationalism, colonialism, religious belief, tradition, life in the city, life in the country, and family life. Lecture/discussion. Students will study major authors and literary genres and will write analytically about assigned texts. Open to all students. English majors must take either Non-Western Literature I or Non-Western Literature II and may take both. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Three hours lecture per week. Prerequisite: ENGLISH.101.	LEC	3	3

ENGLISH	280	POETRY	Examines the genre of poetry with attention to form, technique, interpretation, and historical evolution. Lecture/discussion. Students will analyze individual poems using established terminology and appropriate interpretive approaches. A few poets will be singled out for extended consideration. Note: this is not a class in the writing of poetry. Open to students in all majors. Prerequisite: ENGLISH.101. Offered at least once a year. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Offered face-to-face and distance ed.	LEC	3	3
ENGLISH	286	WOMEN'S LIT	Examines literature written in English and/or in translation by women writers from a variety of cultures and time periods; examines the roles of women in their societies as reflected in their literature; students will become familiar with a variety of literary themes, devices, styles, genres, and techniques; and write analytically about the assigned texts. This course will consist of lecture and discussion. Open to students of all majors; counts as an English major elective. Typically offered at least once a year. This course earns one GEP towards Goal 1 Communication and two GEP towards Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101. Three hours lecture per week.	LEC	3	3
ENGLISH	288	FEMINIST READNG CULT	Examines a variety of written and visual texts to analyze the economic, social, political, historical, cultural, and racial forces in the lives of women, both nationally and internationally and investigates the complexity of gender representation in a variety of contexts. Lecture/ discussion. Students will write analytically about texts. Open to students in all majors. This course will be offered at least once every other semester. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Prerequisites: None.	LEC	3	3
ENGLISH	301	CREATIVE WRIT: FICT	Introduces methods and craft of fiction writing. Students create and revise their own imaginative works using models by established writers. Open only to English majors and minors and is an elective for Creative Writing Majors supporting Objective Three (write original inventive and creative works). Three hours lecture per week. Prerequisites: ENGLISH.204 and ENGLISH.274, or permission of the instructor. Taught at least every other year.	LEC	3	3
ENGLISH	303	CREATIVE WRIT:POETRY	Introduces methods and craft of poetry writing. Students create and revise their own imaginative works using models by established writers. Open only to English majors and minors and is an elective for Creative Writing Majors supporting Objective Three (create write original and inventive creative works). Three hours lecture per week. Prerequisites are ENGLISH 204 and ENGLISH 280, or permission of the instructor. Taught at least every other year.	LEC	3	3
ENGLISH	306	THEORY PRACT WRITING	Introduction to new theories of writing and the teaching of writing including both study of and practice in the methods the theories require. Recommended for secondary education students in English, but open to all students interested in advanced work in writing. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 or permission of the instructor. Offered in fall semester only.	LEC	3	3
ENGLISH	311	STRUCTURE OF ENGLISH	Introduces students to linguistic science. Focuses on the sound patterns, morphology, word formation processes, semantics, and syntax of modern English. This course is open to all English majors and minors and is an elective in the English Department's Literature Concentration supporting Program Goal 2 ("Develop a Range of Literacies"). This is a required course for English/Secondary Education Concentration students. Typically offered once a year. Prerequisites: ENGLISH.101 and 45 credits or permission of department chair. Three hours lecture per week.	LEC	3	3

ENGLISH	312	HIST OF ENG LANGUAGE	Explores the history of the English language from its Indo-European origins to the present. This course is open to all English majors and minors and is an elective in the English Department's Literature Concentration and Secondary Education Concentration supporting Program Goal 2 ("Develop a Range of Literacies"). Typically offered once a year. Prerequisites: ENGLISH.101 and 45 credits, or permission of the department chair. Three hours lecture per week.	LEC	3	3
ENGLISH	344	REST & 18TH CENTURY	The prose, poetry and drama of the period from 1660 through the end of the 18th century. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 and ENGLISH.247 or permission of the instructor. Not offered every semester.	LEC	3	3
ENGLISH	345	ROMANTIC & VICT LIT	Analyzes representative works of British poetry, fiction and non-fiction prose from 1785 to 1900. This course is open to all English majors and minors. Prerequisites: English 101, English 203, and completion of two additional 200-level literature courses, or permission of department chair. Typically offered every two years.	LEC	3	3
ENGLISH	363	SHAKESPEARE	Study of Shakespeare's works, with emphasis on Shakespeare as poet and playwright and attention to conditions of the Elizabethan theater and history of the Shakespearean text. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 and ENGLISH.246 or permission of the instructor.	LEC	3	3
ENGLISH	372	MODERN NOVEL	Examines the modernist novel in Europe and America 1890 - 1940. This course is open to all English majors and minors and is an elective in the English Department's Literature Concentration and Secondary Education Concentration supporting program goal 3. Prerequisites: ENGLISH.101, ENGLISH.203, and completion of two additional 200- level literature courses, or permission of department chair. Typically offered every two years. Three hours lecture per week.	LEC	3	3
ENGLISH	385	LIT FOR YOUNG ADULT	Investigates the teaching of Young Adult (YA) literature, based on broad definition of literacy consistent with national standards in English/Language Arts. The course addresses the modes, audiences, and genres which constitute YA literature, proposing criteria that can be used for choosing texts for the secondary English Language Arts classroom. It provides a theoretical justification for YA literature, as well as pedagogical strategies for approaching such texts with students. This course may offer a field experience; students who take advantage of this opportunity will need to obtain the appropriate clearances. Prerequisites: 45 credits, including English 101 and English 203, or permission of department chair. Typically offered once a year.	LEC	3	3
ENGLISH	397	WRTG CTR CONSULTING	Assists students working as a writing consultants in the Bloomsburg University Writing Center (BUWC) in continuing their professional development by exploring specific topics such as technology in the writing center, writing across the curriculum, issues of language diversity, service-learning, basic writing, and other issues related to effectively helping a diverse population of student writers from multiple disciplines. Course may be repeated up to six times. Prerequisites: 15 credits including ENGLISH.221, ENGLISH.101 or ENGLISH.201 or a writing-intensive course, and/or permission of University Writing Center director	SUP	1	1

ENGLISH	402	WRIT MULTIPLE MEDIA	Examining the intersection of writing and multiple media, this course is open to all majors and designed for any student with appropriate prerequisites, but developed for professional writers in positions that use multimodal writing. The course will work well for a variety of majors, particularly if the student or professional is enrolled in the PWDR minor or certificate. The class focuses on understanding digital rhetorical strategies as well as how technology and social networking have had significant consequences on the writing process. As many entry level writing positions are requiring familiarity with social media, particular attention will be given to this genre and style. Becoming more adept at managing the intersection of digital, visual, and audio genres are also explored. Because this is an experiential learning course, it is often the case that students will work in professional writing situations. The course is offered on a 4-course and is offered on a 2-year rotation. It is an evening course offered once a week.	LEC	3	3
ENGLISH	434	CONTEMP AMER LIT	Consideration of significant fiction, drama and poetry since World War II, with emphasis on writers and texts reflecting the social, political, intellectual and artistic diversity of the period. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 and ENGLISH.237 or permission of the instructor. Not offered every semester.	SEM	3	3
ENGLISH	436	AFRICAN-AMERICAN LIT	A detailed study of one of the three major areas in African-American literature: the African-American novel, the Harlem Renaissance or African-American Writers. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Not offered every semester. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 or permission of the instructor. This course is approved as a Diversity General Education Course.	LEC	3	3
ENGLISH	440	INDEPENDENT STUDY	Provides an opportunity for an English major to pursue a course of reading and inquiry into some specific topic in literature or literacy studies that differs in subject matter, depth, or emphasis from our regular course offerings. The English Department faculty member conducting the independent study will be responsible for creating a syllabus, assigning projects and examinations, and grading. Prerequisites: ENGLISH.101 and 203; a total of 24 credit hours in English, consent of the instructor, department chair, and Dean of the College of Liberal Arts.	IND	3	6
ENGLISH	492	LITERARY CRITICISM	Examines the major movements and literary critics from Plato and Aristotle to the present, emphasizing the application of critical strategies and techniques to selected literary genres. This course is open to all English majors and minors. Prerequisites: English 101 and English 203, two 200-level literature courses, and two additional at least 200-level English courses, or permission of department chair.	LEC	3	3
ENGLISH	497	ENGLISH INTERNSHIP	A work-study program. Open to English majors; others by departmental consent. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 or permission of the instructor.	SUP	1	12
ENGTECH	101	INTRO TO ENG TECH	Provides an overview of opportunities and challenges of an engineering technology career. Topics include academic success strategies, various engineering disciplines, product development process, communication skills, and design and implementation of an engineering design project. Prerequisites: None. Three hours lecture/lab per week.	LEC	3	3
ENGTECH	141	CIRCUIT ANALYSIS	Electric circuit analysis including computer simulation and hands-on laboratory experience using modern electronic equipment. Resistance, inductance and capacitance. Analysis of dc and ac circuits including network theorems, R-L and R-C transients, and R-L-C resonance. AC power, power factor and three-phase power. Three hours lecture and three hours lab per week. MATH.113 or MATH.125 as a pre- or co-requisite	LAB	4	4

ENGTECH	141	CIRCUIT ANALYSIS	Electric circuit analysis including computer simulation and hands-on laboratory experience using modern electronic equipment. Resistance, inductance and capacitance. Analysis of dc and ac circuits including network theorems, R-L and R-C transients, and R-L-C resonance. AC power, power factor and three-phase power. Three hours lecture and three hours lab per week. MATH.113 or MATH.125 as a pre- or co-requisite	LEC	4	4
ENGTECH	180	CAD ENGRG GRAPHICS	Provides hands-on introduction to computer-aided design with an emphasis on basic engineering graphics. Orthographic, sectional, auxiliary, isometric, and perspective views. Solid modeling, dimensions, and tolerances. This course does not count as a Group C, Natural Sciences & Math General Education Requirements.	LEC	3	3
ENGTECH	241	ELEC INSTR & DAT ACQ	Sensors, transducers, and instrumentation system concepts. Main topics include electromechanical, electromagnetic, optical, thermal, and sonic sensors, signal conditioning electronics, data acquisition software and hardware, virtual instrumentation, and instrumentation system design and implementation. Prerequisites: PHYSICS.315 or consent of the instructor and PHYSICS.316 or consent of the instructor. Two hours lecture and three hours lab per week.	LAB	3	3
ENGTECH	241	ELEC INSTR & DAT ACQ	Sensors, transducers, and instrumentation system concepts. Main topics include electromechanical, electromagnetic, optical, thermal, and sonic sensors, signal conditioning electronics, data acquisition software and hardware, virtual instrumentation, and instrumentation system design and implementation. Prerequisites: PHYSICS.315 or consent of the instructor and PHYSICS.316 or consent of the instructor. Two hours lecture and three hours lab per week.	LEC	3	3
ENGTECH	331	LINEAR SIGNALS & SYS	This course provides a mathematical basis for analyzing and designing electrical systems. Topics include Laplace transform, transfer functions, frequency response, Fourier analysis, Z-transform, and stability considerations for continuous-time and discrete-time systems. Prerequisites: ENGTECH.141 and MATH.322 (completed or concurrent). Three hours lecture per week.	LEC	3	3
ENGTECH	381	ENGR APPL IN IND 1	Presents case studies of engineering problems and their solutions in various industrial settings. The role of organizational structure and project management in engineering design and manufacturing is discussed. This is the first of a two-part engineering applications in industry sequence. Three hours of lecture per week. Prerequisite: ENGTECH.380.	LEC	3	3
ENGTECH	461	RF EFFECTS AND MEASU	Electronic instrumentation and techniques for measurement at radio frequencies of such quantities as power, impedance, standing wave ratio, frequency, voltage and current. Receiver and antenna measurements, smith charts, impedance matching and radio frequency shielding. Two hours lecture and two hours lab per week. Prerequisites: PHYSICS.212 and ENGTECH.441.	LAB	3	3
ENGTECH	461	RF EFFECTS AND MEASU	Electronic instrumentation and techniques for measurement at radio frequencies of such quantities as power, impedance, standing wave ratio, frequency, voltage and current. Receiver and antenna measurements, smith charts, impedance matching and radio frequency shielding. Two hours lecture and two hours lab per week. Prerequisites: PHYSICS.212 and ENGTECH.441.	LEC	3	3

ENGTECH	491	SENIOR DESIGN PROJ	Is a required course for senior-level students in the Electronic Engineering Technology (EET) program. Team(s) of students are required to design, build, test, and document their project based work. Project definition, specification development, project management, design and implementation, and economical feasibility are discussed. Ethical issues related to the discipline are emphasized. Prerequisites: Senior standing, Industrial Process Control (ENGTECH.431); and RF Effects & Measurements (ENGTECH.461) as a co-prerequisite. Two two-hour sessions per week.	LEC	3	3
EXERSCI	112	VARSITY ATHLETICS 1	Open to any student who is a member in good standing of a Bloomsburg University athletic team. Course is graded pass/fail. This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement.	ACT	1	1
EXERSCI	113	VARSITY ATHLETICS 2	Open to any student who is a member in good standing of a Bloomsburg University athletic team. Course is graded pass/fail. This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement.	ACT	1	1
EXERSCI	114	TEAM SPORTS	Provides activity and instruction in the development of individual offensive and defensive fundamentals and their incorporation into a team concept. Students are required to participate in various team sports to facilitate the development of healthy behaviors over their lifetimes. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: None.	ACT	2	2
EXERSCI	117	BEG/JAZZ/BALLET	Welcomes new movers to explore the fundamentals of jazz and ballet dance from an artistic, physically active and historical approach. Students will gain an appreciation for the historical figures, movement techniques, and terminology associated with each style, while actively experiencing the broad range of physical attributes while performing each unique form. Students will gain creative tools transferable to all career paths, in addition to developing life-long practices for healthy living. Open to students in all majors. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: None.	ACT	2	2
EXERSCI	150	AQUATICS	Provides an opportunity to develop personal health and fitness using a variety of training techniques in the aquatic medium. This course is designed to develop the knowledge and skills necessary for developing stroke technique, increase aerobic endurance, and gain an understanding of acute and chronic responses to aquatic exercises. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: The student should have the ability to perform basic skills such as floating, treading, and swimming one length of the pool. A basic skills test may be administered to ensure each student has these basic skills.	ACT	2	2
EXERSCI	150	AQUATICS	Provides an opportunity to develop personal health and fitness using a variety of training techniques in the aquatic medium. This course is designed to develop the knowledge and skills necessary for developing stroke technique, increase aerobic endurance, and gain an understanding of acute and chronic responses to aquatic exercises. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: The student should have the ability to perform basic skills such as floating, treading, and swimming one length of the pool. A basic skills test may be administered to ensure each student has these basic skills.	ACT	2	2

EXERSCI	161	INTRO EXERCISE SCI	Provides a basic overview of the sub-disciplines and potential careers, including their professional duties, within the broader field of Exercise Science. This course will introduce students to the variety of scientific, popularized, and professional information available to Exercise Science professionals and the public. Students will be required to find, analyze, and use information from a variety of sources to investigate areas of interest within the field of Exercise Science. Prerequisites: None.	LEC	3	3
EXERSCI	226	JOGGING/WALKING	Explores the relationship of jogging and walking to one of the components of wellness for a healthy lifestyle. Students will measure their cardiorespiratory endurance as they engage in jogging and walking activities. This course earns two GEP's towards Goal 9 Healthy Living in general education. Prerequisites: None.	ACT	2	2
EXERSCI	226	JOGGING/WALKING	Explores the relationship of jogging and walking to one of the components of wellness for a healthy lifestyle. Students will measure their cardiorespiratory endurance as they engage in jogging and walking activities. This course earns two GEP's towards Goal 9 Healthy Living in general education. Prerequisites: None.	ACT	2	2
EXERSCI	250	LIFEGUARDING	Provides an opportunity to attain an American Red Cross Lifeguarding Certificate. CPR, AED, and First Aid are taught as part of this course. Students must be able to pass the standard Red Cross swimming tests to be eligible for certification. This course earns two GEP towards Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education.	ACT	3	3
EXERSCI	270	EXERCISE & YOU	Studies and measures the health-related components of physical fitness including cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and body composition and how they relate to making lifelong, healthy decisions. Anatomical structures, physiological functions, nutrition, and stress reduction are addressed through programmed exercise and practical applications. Use of emergent technology will be used to track monitor, and assess physical fitness. This course earns two GEPs toward Goal 9 Healthy Living and one GEP towards Goal 2 Information Literacy, in general education. Prerequisites: NONE.	ACT	3	3
EXERSCI	280	CURR ISS HLTH PROMOT	Assesses major problems which concern communities today: drugs, sexually transmitted diseases, pollution, alcohol and suicide.	LEC	3	3
EXERSCI	282	CARE & PREVENTION	This course serves as an introductory course in the care and prevention of common musculoskeletal injuries. Prevention, recognition and the care of trauma to the musculoskeletal systems will be discussed in detail. Prerequisite: BIOLOGY.173.	LEC	3	3
EXERSCI	286	DECISIONS FOR HEALTH BEH	Focuses on personal health issues, the consequences of decisions made about health choices and the societal implications, locally and globally of those decisions. Course topics include: human sexuality, mental health, fitness and wellness, nutrition, cancer, and death and dying. This course earns one GEP toward Goal 2 Information Literacy and one GEP toward Goal 10 Citizenship in general education. Prerequisite: None.	LEC	3	3
EXERSCI	288	WOMEN IN SPORTS	Surveys aspects of the historical and contemporary role of women in sport. Encourages an awareness in students regarding the differences between sport for men and women in various contexts, including social, psychological and biophysical. By examining the past and current practices and cultural norms in light of evolving research findings, students are expected to increase their understanding of issues germane to sport. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None.	LEC	3	3

EXERSCI	306	PSYCHOLOGY OF SPORT	Aims to familiarize the student with psychological components of human performance related to sport and exercise. Focuses on sport participation and includes psychological assessment, intervention techniques and a brief introduction to the predominant research methods used in sport psychology. Course has particular value to coaches, teachers, psychologists and exercise specialists and other sport-affiliated professions.	LEC	3	3
EXERSCI	311	METH MAT EL SCH HPE	Provides principles and procedures to meet the needs and interests of elementary-age children in the area of physical education. The course will address elements of effective instruction, management, and assessment. The course is most appropriate for future educators; students will learn to teach children psychomotor skills as well as use physical activity as a tool for teaching other subjects. The importance of promoting the health and fitness of today's youth will be emphasized. Students can expect to engage in physical activity during the teaching lab component of this course. This course fulfills 1 GEP for Goal 1 (Communication) and 2 GEP's for Goal 9 (Healthy Living). Prerequisites: NONE	LEC	3	3
EXERSCI	321	FIRST AID & SAFETY	Provides an opportunity to attain American Red Cross Cardiopulmonary Resuscitation (CPR), Automated External Defibrillation (AED), and First Aid certification for the adult, child, and infant. Students must be able to pass both the written and practical skills tests to be eligible for certification. This course includes both care for, and prevention of, a variety of emergency situations including, but not limited to, cardiac emergencies, breathing emergencies, sudden illness, environmental emergencies, soft tissue injuries, and injuries to muscles, bones, and joints. These topics are covered in relation to adults, children, and infants, and issues pertaining to other special populations of interest such as diabetics, pregnant women, people with disabilities, and those with language barriers are also covered. This course earns two GEPs toward Goal 10 Citizenship in general education. Prerequisites: None.	LEC	3	3
EXERSCI	351	KINESIOLOGY	Provides the students with a fundamental understanding of the laws of physics as they apply to human motion. Emphasis is placed on the kinematic analysis of common movements in sport and exercise. Students will learn to identify and discuss the various phases of motion and explain the mechanical significance of each in producing desired outcomes. Laboratory sessions are integrated into the meeting times throughout the semester. Prerequisites: EXERSCI 255 - Functional Anatomy with a C or better and PHYSICS 201 - Introductory Physics 1 with a D or better.	LEC	3	3
EXERSCI	378	EXERCISE PHYSIO I	Explores the function of how the body responds to the stress of acute and chronic physical activity and exercise. Concepts relating to energy metabolism, neuromuscular, circulatory and cardiorespiratory physiology are addressed in both lecture and laboratory experiences which include theoretical and practical applications to exercise. This course is intended to develop a student's understanding of how exercise impacts a number of bodily systems. Three hours of lecture per week and two hours of lab every other week. Prerequisites: Exercise Science Majors Only; Must have a C or better in BIOLOGY.173; Must have a C or better in BIOLOGY.174; CHEM.101.	LEC	4	4
EXERSCI	380	RES METHODS EX SCI	Introduces fundamental concepts of the methods, design, analysis and interpretation of research in the field of exercise science. Emphasis will be placed on comparing different research methods, statistical analysis techniques, and interpretation of data as they relate to various topics in exercise science, as well as developing competency in the use of available statistical software packages. The course is intended to prepare the student to be a critical consumer of new information and emerging trends in exercise science, as well as to understand and use research techniques in later career pursuits. May be offered online. Prerequisites: 60 earned credit hours.	LEC	3	3

EXERSCI	414	EXER FOR SPECIAL POP	Provides students with a basic overview of theoretical, scientific and applied perspectives of exercise prescriptions of special populations. Practical experience, physical fitness programs and modified fitness programs will be introduced and incorporated in working with special populations. Prerequisites: EXERSCI 378.	LEC	3	3
EXERSCI	454	EXERC SPEC AND HFI	Provides instruction and experiences related to the theory of exercise physiology and how an exercise physiologist integrates and applies knowledge into daily practice. The professional responsibilities and duties of an entry-level Exercise Physiologist will be explored. Further, this course will cover material associated with the Certified Exercise Physiologist exam from the American College of Sports Medicine (ACSM). This course is open to Exercise Science majors who have completed 90 credits. Prerequisites: Minimum of 90 completed credits and Exercise Science Major.	LEC	3	3
EXERSCI	477	EXERCISE PRESCRIPT	Emphasizes the academic and technical knowledge necessary to conduct health and fitness programs in public and private agencies. Students are prepared to assume leadership and management positions within the health and fitness industries. Prerequisite: EXERSCI.378.	LEC	3	3
EXERSCI	478	EXER PHYSIOLOGY 2	Builds directly on concepts learned in EXERSCI 378. This course emphasizes the understanding of physiologic principles related to healthy and diseased individuals, as well as the physiology of human performance. In addition, how exercise in different environmental conditions can impact physical performance. Prerequisite: A grade of "C" or better in EXERSCI.378 - Exercise Physiology I.	LEC	3	3
EXERSCI	496	INDEPENDENT STUDY	Individualized study of various problems in Health, Physical Education and Athletics under the guidance of the staff. Emphasis upon independent research topics selected by students and faculty.	IND	1	3
EXERSCI	498	INTERNSHIP EXER SCI	Provides the student with a practical on-site work experience in which technical skills and abilities are applied. Site is selected by the student with the approval of the major director. Required experience is designed to be the culminating experience of undergraduate course work and facilitates the transition from the role of student to employee. Prerequisites: BIOLOGY.173, BIOLOGY.174, EXERSCI.476, EXERSCI.477.	SUP	6	15
EXERSCI	510	RES METHODS EX SCI	Provides a complete overview of the research process employed in exercise science. Specific emphasis is given to conceptualization of the research problem, hypothesis development, literature review and basic statistical procedures. Alternative research paradigms and methodologies are also discussed. Prerequisite: Admission to the M.S. program in Exercise Science.	LEC	3	3
EXERSCI	511	ECG INTER EX TEST	Includes basic ECG theory, interpretation, and the incorporation of exercise testing. In addition, this course analyzes general principles and procedures of cardiac and primary prevention programs. The organization and administration of specific program design, along with counseling and behavioral strategies will also be discussed. Prerequisites: Admission into the M.S. in Exercise Science Program.	LEC	3	3
EXERSCI	551	MECH OF HUMAN MOVMT	A quantitative approach to movement analysis. The mechanical principles and laws that govern motion will be reviewed, studied and applied to the human body as it engages in exercise, sport performance and daily living tasks.	LEC	3	3
EXERSCI	554	EXERC SPEC AND HFI	Provides graduate and undergraduate students with an overview of the knowledge, skills and abilities necessary for serving as an exercise specialist and a health fitness instructor in the fields of health, fitness and clinical exercise physiology. The curriculum is based on the knowledge, skills and abilities outlined by the American College of Sports Medicine for their professional certifications.	LEC	3	3

EXERSCI	556	MUSCULAR ADAPTATIONS	Designed to provide students with the knowledge, skills and abilities to address the adaptability of skeletal muscle in response to acute and chronic exercise. Practice areas will include a detailed study of neuromuscular function and adaptations to a variety of training programs. Prerequisite: Admission to the M.S. program in Exercise Science.	LEC	3	3
EXERSCI	560	EXERCISE NUTRITION	Provides students with the knowledge, skills and abilities to modify nutrition and supplement use to alter adaptations to acute and chronic exercise. Practice areas will include detailed study of nutrition for fitness and sport, human energy metabolism during exercise, carbohydrate, fat and protein metabolism and exercise, vitamin and mineral balance and exercise, fluid and electrolyte balance during exercise and supplements. Prerequisite: Admission to the M.S. program in Exercise Science.	LEC	3	3
EXERSCI	575	EXER PHYSIOLOGY 1	Concentrates on the physiological responses and adaptations that result during and after exercise. Focuses on energy production pathways, bioenergetics, and hormone interaction during exercise. Prerequisites: Admission to the MS Program in Exercise Science.	LEC	3	3
EXERSCI	577	EXERCISE PROG ADMIN	Provides an in-depth study of various types of training programs, including the development of strength, power, endurance, agility, and speed. Specific emphasis will be placed on the application and integration of a variety of training methods to elicit adaptations based on an individual's needs analysis. Current legal, professional, and managerial issues relevant to the industry will also be discussed. Prerequisites: Admission to the M.S. in Exercise Science program.	LEC	3	3
EXERSCI	581	ORTHO ASSESSMENT II	Prepares the graduate athletic training student to recognize and evaluate orthopedic injuries commonly sustained in the athletic environment. Topics include an evidence-based sports medicine approach to injuries to the lower extremities, pelvis, hip, knee, and ankle. This course includes a laboratory component that will develop psychomotor clinical skills. Prerequisites: Orthopedic Assessment I (EXERSCI.580); Human Anatomy and Physiology I, II (BIOLOGY.173, BIOLOGY.174); Kinesiology (EXERSCI.351); Care and Prevention of Athletic Injuries (EXERSCI.282); Admission into the Entry-Level Master's Athletic Training Education Program.	LEC	3	3
EXERSCI	582	THERA MODALITIES	Provides students with the theoretical foundation of therapeutic modalities as a component of athletic injury reconditioning programs. Theory, clinical aspects, and evidence-based practice in the use of therapeutic modalities are examined. This course will have a laboratory component that will develop psychomotor skills. Prerequisites: Human Anatomy and Physiology I, II (BIOLOGY.173, BIOLOGY.174); Kinesiology (EXERSCI.351); Care and Prevention of Athletic Injuries (EXERSCI.282); Orthopedic Assessment I and II (EXERSCI.580, EXERSCI.581) Admission into the Entry-Level Master's Athletic Training Education Program.	LEC	3	3
EXERSCI	585	PATHO/PHARMACOLOGY	Prepares the graduate athletic training student in the recognition of pathology and mechanisms of diseases that are not associated with specific traumatic incidents. This course includes the pharmacologic treatment of major illnesses, injuries, and diseases in the rehabilitative settings. Prerequisites: Human Anatomy and Physiology I, II (BIOLOGY.173, BIOLOGY.174); Kinesiology (EXERSCI.351); Care and Prevention of Athletic Injuries (EXERSCI.282); Orthopedic Assessment I and II (EXERSCI.580, EXERSCI.581) Admission into the Entry-Level Master's Athletic Training Education Program	LEC	3	3

EXERSCI	591	SUPERVISED CLINIC I	A series of four courses which provide the student with a supervised athletic training experience in which clinical proficiencies are assessed. Each student is assigned a clinical education site and a clinical instructor. In addition to the clinical experience, laboratory sessions are conducted to assimilate classroom knowledge with clinical decision-making. The content focuses on knowledge, skills, and attitudes learned during the most recently completed semester in the clinical athletic training program, but also integrates material taught since the commencement of the program. Prerequisites: Admission into the Entry-Level Master's Athletic Training Education Program.	LEC	3	3
EXERSCI	594	SUPERVISED CLIN IV	A series of four courses which provide the student with a supervised athletic training experience in which clinical proficiencies are assessed. Each student is assigned a clinical education site and a clinical instructor. In addition to the clinical experience, laboratory sessions are conducted to assimilate classroom knowledge with clinical decision-making. The content focuses on knowledge, skills, and attitudes learned during the most recently completed semester in the clinical athletic training program, but also integrates material taught since the commencement of the program. Prerequisites: Admission into the Entry-Level Master's Athletic Training Education Program.	LEC	3	3
EXERSCI	595	ADULT FITNESS PRAC	Provides the student with a practical on-site work experience in which technical/clerical skills and abilities are applied. The site is selected by the student with the approval of the MS in Exercise Science Graduate Program Coordinator. Required experience is designed to be the culminating experience of graduate course work (for non thesis option) and facilitates the transition from the role of student to employee. Course may be repeated. Prerequisites: Admission to the M.S. program in Exercise Science	SUP	3	9
EXERSCI	596	INDEPENDENT STUDY	Provides the opportunity for Exercise Science students to apply scientific methods and learn the techniques of scientific research, data collection, and analysis by engaging in an individualized, graduate-level program of research under the supervision of a faculty member. The research will culminate in a scholarly report written by the student, and the results will be presented at a scientific meeting, University research day event, or other appropriate venue. Course may be repeated with a different topic of study. Prerequisites: Admission to the M.S. program in Exercise Science.	IND	3	3
FINANCE	120	PERSONAL FINANCE DEC	Presents information that students will find useful financially when they move through life, regardless of their career choices. The general topics covered are personal financial planning, socially responsible investing, consumer credit and protection, insurance (health, disability, liability, home, and automobile), investing principles and ethics, sources of capital, and retirement planning as they impact individuals and small business owners. The course emphasizes the link between personal financial decision making and responsibility citizenship. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
FINANCE	313	INTRO CORPORATE FIN	This course covers introductory topics in the areas of corporate finance, investments, international finance, and financial institutions. The primary emphasis is on corporate finance. Topics in the corporate area include the time value of money, capital budgeting, working capital management, financial statement analysis, cost of capital, and capital structure. Investments topics include risk and return, valuation of securities, and financial markets and environments. This course is required for all business majors. May be offered in traditional and distance education formats. Prerequisites: ECONOMIC.121 and ECONOMIC.122 and (MATH 141 or ECONOMIC 256) and (ACCT 220 or ACCT 222) and (ECONOMIC 156 or MATH 123 or MATH.125).	LEC	3	3

FINANCE	323	FIN MARKETS & INSTIT	Studies short-term money market and long-term capital market instruments, major financial institutions, the relationship between interest rates and security prices and the role of the consumer and government in financial markets. Three lecture hours per week. May be offered in traditional or distance education formats. Prerequisite: FINANCE.313.	LEC	3	3
FINANCE	333	COMM BANK MANAGEMENT	Leads to the understanding of risk management in contemporary banking by studying the historical and contemporary impact of banking regulation, measures of bank performance and bank policy formation. Risk is shown to be managed through Asset/Liability Management (by the use of GAP Analysis), Investment Management, Liquidity Management, Capital Management, and Off-Balance Sheet Management. Three lecture hours per week. May be offered in traditional or distance education formats. Prerequisite: FINANCE.313.	LEC	3	3
FINANCE	343	INVESTMENT MANAGMENT	Outlines principles of security investments including descriptions of investment instruments, investment planning, security valuation, portfolio theory and strategy and security markets. Three lecture hours per week. Prerequisite: FINANCE.313.	LEC	3	3
FINANCE	401	PERSONAL FINANCE PLANNING	Provides a comprehensive overview of the principles of financial planning and processes that can be used to help individuals to achieve financial independence and security. Students will develop rigorous skills and techniques in financial planning by applying strategies in the areas of financial planning, cash flow and consumer debt management, education planning, investment planning, tax planning, and retirement and estate planning. The course is designed for the finance students who will pursue their career in financial planning and advising as the first required upper-level course in the Specialization of Personal Financial Planning. Prerequisites: FINANCE.313. May be offered in traditional and distance education formats.	LEC	3	3
FINANCE	535	FINANCIAL MANAGEMENT	In-depth study of management activities involved in the financial aspects of business enterprise. Theoretical knowledge gained through exposure to financial management literature is applied to problem situations through the use of case studies and simulation techniques. Emphasis is placed on the development of perspective in the decision-making process with the acquisition of tools to facilitate effective decision making. Three lecture hours per week. Prerequisites: ACCT.524, MGMT.511	LEC	3	3
FRENCH	101	FRENCH 1		LEC	3	3
FRENCH	102	FRENCH 2	Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in French. FRENCH.102 is for students who wish to continue studying French at the second level. French 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. FRENCH.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: FRENCH.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school French.	LEC	3	3

FRENCH	203	FRENCH 3	Develops the four language skills: speaking, reading, writing and listening. Basic grammar is reviewed and new grammatical concepts are presented. French cultural history is given additional emphasis. Students studying French should begin to synthesize their acquired linguistic and cultural knowledge toward an understanding of their native language and culture. This course is also designed to help prepare those students who would like to visit or study abroad in a French speaking country. The three hours lecture per week and assignments employ a variety of learning activities. FRENCH 203 is a required course for the major and minor in Languages and Cultures: French, but is open to all students. It satisfies General Education Requirements: 2 GEPs for Goal 1 - Communication and 1 GEP for Goal 7 - Arts and Humanities. This course is offered once per year. Prerequisites: FRENCH 102 (French 2), or placement through French Language Placement Test, or permission of the instructor.	LEC	3	3
FRENCH	205	APPD PHON & PRONOUN	Analyzes French sound system. Drills on pronunciation and intonation. Selections of prose, poetry and songs for imitation. 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. Prerequisite: FRENCH.102 or equivalent.	LEC	3	3
FRENCH	402	CONV:ISSUES FR MEDIA	Presents further development of language fluency through discussion of current topics and issues selected from francophone newspapers and magazines. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Not offered every semester. Prerequisite: FRENCH 203 or FRENCH 204 in combination with any 200 or 300 level FRENCH course (except for FRENCH 211 or 212), or equivalent course, or corresponding placement through the French Language Placement Test.	LEC	3	3
GENTRANS	401	MEDICAL IMAGING CLIN		CLN	0	0
GENTRANS	402	MED TECH CLINICAL		CLN	0	0
GENTRANS	403	NANOTECH PRACTICUM 1		LEC	6	6
GENTRANS	404	GEISINGER MED IMAGE		CLN	0	0
GENTRANS	406	NANOTECH PRACTICUM 2		LEC	6	6
GENTRANS	408	NANOTECH PRACTICUM 3		LEC	6	6
GENTRANS	409	EXCHANGE PROGRAM		LEC	0	0
GENTRANS	410	STUDY ABROAD		LEC	0	0
GERMAN	101	GERMAN 1		LEC	3	3

GERMAN	203	GERMAN 3	Develops the four language skills: speaking, reading, writing and listening. Basic grammar is reviewed and new grammatical concepts are presented. German cultural history is given additional emphasis. Students studying German should begin to synthesize their acquired linguistic and cultural knowledge toward an understanding of their native language and culture. This course is also designed to help prepare those students who would like to visit or study abroad in a German-speaking country. The three hours lecture per week and assignments employ a variety of learning activities. GERMAN 203 differs from GERMAN 204 in the selection of topic areas. GERMAN 203 is a required course for the major and minor in Languages and Cultures: German, but is open to all students. It satisfies General Education Requirements: 2 GEPs for Goal 1 - Communication and 1 GEP for Goal 7 - Arts and Humanities. This course is offered once per year. Prerequisites: GERMAN 102 (German 2), or placement through the German Language Placement Test, or permission of the instructor.	LEC	3	3
GERMAN	206	COMP & CONV 1	A comprehensive intermediate German course, which develops writing, reading, speaking and listening skills in the German language, and which expands knowledge of German-speaking cultures. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Not offered every semester. Prerequisite: GERMAN.204 or equivalent.	LEC	3	3
GERMAN	211	GERMAN CULT & CIV 1	Provides an understanding of the geography, government, customs, education, arts and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. Taught in English; knowledge of German not required. Special projects for German majors. Three hours lecture per week. Not offered every semester. This course is approved as a Diversity General Education Course/This course counts as a Group A, Humanities and The Arts General Education Requirements.	LEC	3	3
HISTORY	121	US HIST COL PER 1877	Explores the founding and growth of the American Republic from the Pre-Columbian era to the end of Reconstruction (1877) in the North American colonies and the United States. Major topics include: the peoples and societies of early America; the American Revolution and early republic; national growth and expansion, sectional conflict; Civil War; and Reconstruction. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	121	US HIST COL TO 1877	Explores the founding and growth of the American Republic from the Pre-Columbian era to the end of Reconstruction (1877) in the North American colonies and the United States. Major topics include: the peoples and societies of early America; the American Revolution and early republic; national growth and expansion, sectional conflict; Civil War; and Reconstruction. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	122	US HIST 1877 PRESENT	Explores the history of the United States from the end of Reconstruction to the present. Students will gain an understanding and appreciation of the historical significance of this time period in American history. Major topics include: The American West, the rise of urban-industrial America, reform traditions, the emergence of the United States as a world power, and American foreign and domestic affairs. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	125	WESTERN CIV TO 1650	Surveys the development of Western Civilization from river-valley societies to the end of the early modern period (c.4000 BCE-1650 CE). Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3

HISTORY	126	WEST CIV FROM 1650	Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 (Cultures and Diversity) in general education, and fulfills requirements for the History major and minor. Three hours of lecture per week.	LEC	3	3
HISTORY	131	ASIAN CIV TO 1500	Surveys the development of Asian Civilizations (primarily in South and East Asia and the influence of these major civilizations on Northeast and Southeast Asia as well as the development of the Mongol empire and its impact on the Asian continent) from earliest times to the fifteenth century. Three hours of lecture per week. Open to all students. This course fulfills requirements for the History major and minor and earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	132	ASIAN CIV SINCE 1500	Surveys the major civilizations of Asia from the sixteenth to the twentieth century. This course examines inter-Asian relations and the developing political, economic, and cultural relations between the West and Asia through the twentieth century, presenting an overview of the different Asian paths to independence during the twentieth century. Three hours of lecture per week. Open to all students. This course fulfills requirements for the History major and minor and earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	141	MODERN CHINA & JAPAN	Surveys the history of China, Japan, and the Korean peninsula from the seventeenth to the mid-twentieth century. Modern East Asia examines the political, social, cultural, and economic development of China, Japan, and the Korean peninsula before, during, and at the end of imperialism and colonialism in East Asia. This course is recommended for history majors and minors taking upper level courses in modern East Asian history. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three hours lecture per week. Open to all students. Prerequisites: None.	LEC	3	3
HISTORY	142	LAT AMER: FROM COL	Surveys Latin American societies and cultures from 1492 to the present day. Open to all students. This course applies to General Education Goal 4 and fulfills requirements for the history major and minor. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. No prerequisites. Three hours lecture per week.	LEC	3	3
HISTORY	145	MUSLIM WORLD TO 1405	Surveys the development of the Muslim World (primarily the Middle East, North Africa and the Iranian plateau) from sixth to the beginning of the fifteenth century. Open to all students. This course applies to General Education Goal 4, and fulfills requirements for the History major and minor. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three Hours Lecture Per week.	LEC	3	3
HISTORY	208	CONTEMPORY ISSUES US	Examines selected issues of social, political or foreign affairs within a historical context, describing the origin, evolution, current significance and importance in American society. The issues may vary each semester. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
HISTORY	224	IMMIGRANT EXPERIENCE	Explores the history of immigration to America from the colonial period to the present. Major topics include: reasons for emigration, the changing patterns of immigration, the multi-cultural nature of the Northern American colonies and the United States. the important economic, religious, political, cultural, gender, and social factors behind immigration, the complexities of ethnicity, the historical development of nativism, xenophobia, and immigrant restrictions, and the concepts of assimilation, acculturation, and dual identity. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3

HISTORY	228	AFRO-AMERICAN HIST	Examines the nature and meaning of the African-American experience in the United States surveyed from its African beginnings to the present. Reviews black creative expressions in the visual arts, music, literature, philosophic thought and social history. Addresses questions such as: Why did slavery emerge in colonial America? How did free African Americans and slaves shape the American colonies and affect American Revolution? Why was the South so dependent on slavery that southerners were willing to secede from the Union to preserve it? What was Reconstruction? Why did segregation and Jim Crow laws emerge? How did race shape the black experience with the Great Depression or World War II? What was the Civil Rights movement? This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None.	LEC	3	3
HISTORY	281	MILITARY HISTORY 1	Studies organized warfare from its origins to the last campaign of Napoleon I, concentrating on strategy and tactics. Examines moral and social problems raised by warfare. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week.	LEC	3	3
HISTORY	298	HISTORIO/HIST METH	Provides students with an opportunity to take a critical approach to the study of history by examining changes in historical interpretations to analyze why history is written and revised. Affords students hands-on experience in historical research, utilizing libraries, archives, databases and Internet resources. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: ENGLISH.101 and one 100-level course in History.	SEM	3	3
HISTORY	329	THE AMERICAN WOMAN		SEM	3	3
HISTORY	335	HIST OF CHRISTIANITY	Promotes student analysis of the ancient, medieval and modern roots of contemporary Christian denominations and movements. Primary and secondary historical sources are discussed seminar-style in order to critically examine important ideas, personalities and historical conditions of Christianity. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: Any course in history or consent of the instructor.	SEM	3	3
HISTORY	340	GERMAN HIS FROM 1871	Examines the major political, social and economic developments in Germany from unification in 1871 to reunification in 1989-90. Major developments scrutinized include nationalism, the total war era, German experiences with democracy, the divergent paths of East and West Germany, and the post-reunification tensions between Ossis and Wessis. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3
HISTORY	356	IMPERIAL RUSSIA	Introduces students to major themes and problems in the study of modern Russian history by focusing on the political, social and cultural history from the 1590s Time of Troubles to the 1917 revolution that overthrew the Imperial Russian state. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. Prerequisites: None.	SEM	3	3
HISTORY	381	CIV WAR, RECON & IND	Surveys the causes of the Civil War, the war itself, and reconstruction. Topics include politics, ideology, military technology and tactics, race and gender issues, the economy, labor, immigration and popular culture. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3

HISTORY	398	RESEAR & WRIT SKILLS	Focuses on the development of proficient research and writing skills. Students learn to fully utilize library and research facilities; develop skills in analyzing and interpreting original/primary research documents; and produce a clear, concise and well-written lengthy formal paper. In addition, students develop an understanding of how and why history is written and revised. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy and one GEP toward Goal 6 Social Sciences in general education. Three hours lecture/ discussion per week. Required for history majors and open to other students who fulfill the prerequisite requirements. Prerequisites: HISTORY.298 with a "C" or better.	SEM	3	3
HISTORY	404	TOPICS AMERICAN HIST	Seminar allows students to focus on a specific topic or related topics in American history for in-depth study and analysis. Includes historiography of the chosen topic, discussion of problems associated with the topic and production of a research paper. Topics vary from semester to semester. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3
HISTORY	410	TOPICS NON-WESTERN	This seminar allows students to focus on specific topic or related topics in Non-Western History for in-depth study and analysis. In the course, students will gain familiarity with the historiography of the chosen topic, discuss problems associated with the topic, and produce a research paper. Topics will vary from semester to semester. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3
HISTORY	432	PLANTATION SOCIETIES	Examines the development of plantation culture in the Americas and its effects on European, African and American societies. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3
HISTORY	472	HISTORY OF LABOR US	Surveys the emergence and development of organized labor from the post-Civil War period to the present. A third of the course is devoted to an analysis of contemporary labor-management problems and labor's changing role in our increasingly technological society. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 3 semester hours in history.	SEM	3	3
HISTORY	497	INTERNSHIP HISTORY	Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer, with about 40 hours of supervised work generating each semester hour. Prerequisite: For history majors, 15 semester hours of history, including HISTORY.398. Other majors may enroll with consent of advisers. Note: A student may not apply more than 3 semester hours of internship toward the fulfillment of the history major, although a student may enroll for more than 3 semester hours of HISTORY.497.	SUP	3	12
HONORS	101	HONORS HUMANITIES 1	Allows freshmen and sophomore level students to focus on a specific topic or related topics in the humanities for in-depth study and analysis. Topics vary from semester to semester. Requires extensive reading on a chosen topic, the development of the students' own ideas on the topic and the expression of those ideas in written and oral form. This course counts as a Group A, Humanities and The Arts General Education Requirements.	LEC	3	3
HONORS	110	HONORS MATH & SCI 1	Allows students to focus on a specific topic or related topics in math or science for in-depth study and analysis, including laboratory experience. Topics vary from semester to semester. Requires extensive reading on a chosen topic, the development of the students' own ideas on the topic and the expression of those ideas in written and oral form. This course counts as a Group C, Natural Sciences & Math General Education Requirements.	LEC	3	4

HONORS	130	HONORS SOCIAL SCI 1	Allows students to focus on a specific topic or related topics in the social sciences for in-depth study and analysis. Topics vary from semester to semester. Requires extensive reading on a chosen topic, the development of the students' own ideas on the topic and the expression of those ideas in written and oral form. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. This course is approved as a Diversity General Education Course.	LEC	3	3
HONORS	201	HONORS HUMANTIES 2	Allows freshmen and sophomore level students to focus on a specific topic or related topics in the humanities for in-depth study and analysis. Topics vary from semester to semester. Requires extensive reading on a chosen topic, the development of the students' own ideas on the topic and the expression of those ideas in written and oral form. This course counts as a Group A, Humanities and The Arts General Education Requirements.	LEC	3	3
HONORS	230	HONORS SOCIAL SCI 2	Allows students to focus on a specific topic or related topics in the social sciences for in-depth study and analysis. Topics vary from semester to semester. Requires extensive reading on a chosen topic, the development of the students' own ideas on the topic and the expression of those ideas in written and oral form. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements.	SEM	3	3
HONORS	300	INTRO HONORS RESEARC	Focuses on the development of research and writing skills through the development of an independent research proposal. Students will take and pass Institutional Review Board training through Bloomsburg University; learn to fully utilize library and research facilities; develop a literature review; correctly document all sources; effectively communicate a research proposal in written and oral formats. Required of all Honors students before beginning honors research. The student research proposal will meet the approval of the instructor and the Honors Program Director. This course earns one GEP toward Goal 2 Information Literacy in general education. May be offered in traditional and distance education formats.	LEC	1	1
INSTTECH	460	MULTIMEDIA PROD	Examines the guidelines and techniques for the development of instructional multimedia as well as research and theories of multimedia design. Students work with a variety of multimedia development tools to create multimedia elements. Aspects of multimedia explored within this course include visual design, multimedia presentation production, digital audio production, digital image production, digital video production, and copyright guidelines. Specific emphasis is given to the design, development, and application of various multimedia elements. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	470	INTRO TO WEBSITE DEV	Provides a comprehensive overview of the technologies, processes and issues encountered by front-end web developers in web projects. The current front-end web languages, HTML, CSS, and JavaScript will be used to create web sites, and industry-standard web editors will be introduced. The Web development process is applied and issues related to web development will be explored. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
INSTTECH	472	INTRO TO AUTHORIZING	Acquaints students with authoring tools used to develop training applications that may be implemented online and/or by way of mobile devices. Authoring software will be used to develop interactive simulations and training module frameworks. All elements of course work are reviewed and developed with emphasis on good design, programming techniques, and learner effort. Writing code for specific applications or deployment is not a requirement or any part of this course. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	481	SPECIAL TOPICS		LEC	3	3

INSTTECH	484	ONLINE COURSE DESIGN	Examines the guidelines and techniques for the development of an online course as well as research and theories in the field of eLearning. Students work with a variety of online course development tools to create an asynchronous course, synchronous presentation, and discussion forum. Aspects of online course design explored within this course include course design guidelines, best practices for teaching online, online delivery tools and systems, and building learning communities. Three hours lecture per week. Prerequisite: None.	LEC	3	3
INSTTECH	485	E-LEARN CON & TECH	Examines the guidelines and techniques for the development of eLearning solutions as well as research and theories of eLearning design. Students work with a variety of online course development tools to create eLearning solutions. Aspects of eLearning design explored within this course include techniques for successful online learning, incorporation of eLearning into an organization, types of eLearning (blended, social, synchronous, mobile, game-based, and microlearning), and best practices for designing eLearning solutions. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
INSTTECH	542	TECH APPL CLASSROOM	Explores the role and implementation of education-based technology applications in the classroom. Special emphasis is placed on integrating technology through the use of apps as a mind tools to achieve higher-order thinking. This course will also address the application of technology based educational standards within the learning environment. Students become proficient in a wide range of educational technologies and apply skills of the instructional design process to their projects. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	550	INSTRUCTIONAL DESIGN	Examines the systems approach for the design, development, and evaluation of instruction and training materials. Students use an instructional design process to create a training prototype. Components of this project include a needs assessment, instructional analysis, objectives, instructional strategies, and the development of a teacher's guide and student materials. Specific emphasis is given to applying instructional design techniques to the design and development of instructional products. May be offered in traditional and distance education formats. Prerequisites: Graduate Standing.	LEC	3	3
INSTTECH	551	ADV INSTRUCT DESIGN	Serves as a sequel to INSTTECH.550 Instructional Design by providing additional information and practice concerning the design of effective instruction. Course goes beyond the introductory course by elaborating on the design of instructional strategies for specific learning outcomes, techniques for writing effective test items, and procedures for formative and summative evaluation. In addition, the course emphasizes learning theory, cognitive and behavioral approaches to instruction, comparison of instructional design models and research evidence that supports instructional design practices. Three hours lecture per week. Prerequisites: INSTTECH.550 or permission of Instructor.	LEC	3	3
INSTTECH	560	MULTIMEDIA PROD	Examines the guidelines and techniques for the development of instructional multimedia as well as research and theories of multimedia design. Students work with a variety of multimedia development tools to create multimedia elements. Aspects of multimedia explored within this course include visual design, multimedia presentation production, digital audio production, digital image production, digital video production, and copyright guidelines. Specific emphasis is given to the design, development, and application of various multimedia elements. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	570	INTRO TO WEBSITE DEV	Provides a comprehensive overview of the technologies, processes and issues encountered by front-end web developers in web projects. The current front-end web languages, HTML, CSS, and JavaScript will be used to create web sites, and industry-standard web editors will be introduced. The Web development process is applied and issues related to web development will be explored. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3

INSTTECH	572	INTRO TO AUTHORING	Acquaints students with authoring tools used to develop training applications that may be implemented online and/or by way of mobile devices. Authoring software will be used to develop interactive simulations and training module frameworks. All elements of course work are reviewed and developed with emphasis on good design, programming techniques, and learner effort. Writing code for specific applications or deployment is not a requirement or any part of this course. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	575	MAN MULTIMEDIA PROJ	Provides a project design experience in the Instructional Technology curriculum. Students work on a team to apply concepts and skills learned in previous courses to simulate a hypothetical business environment where they must respond to a mock request for a proposal in the field of eLearning. Student teams use a systems approach to design, develop, and propose a comprehensive interactive eLearning project complete with budget and prototype. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites or Corequisites: INSTTECH.551.	LEC	3	3
INSTTECH	576	AUTH MOBILE DEVICES	This course provides an in-depth look at advanced topics in multimedia authoring. Advanced authoring software, such as Adobe Flash, will be used to develop applications that require the use of external data and complex scripting techniques. The development of applications for mobile devices and special issues related to mobile devices will be the focus of the course. Three hours lecture per week. Prerequisites: INSTTECH.572 or instructor approval.	LEC	3	3
INSTTECH	579	INST GAME DESIGN	Examines the theory and practice of instructional game design from the perspective of creating learning games to teach and reinforce content. Students conduct a needs analysis, produce design documents, produce prototypes, acquire sign offs on the project, and produce an instructional game. Students also evaluate the efficacy of several different types of games designed to promote learning. Three hours lecture per week. Prerequisites: None.	LEC	3	3
INSTTECH	584	ONLINE COURSE DESIGN	Examines the guidelines and techniques for the development of an online course as well as research and theories in the field of eLearning. Students work with a variety of online course development tools to create an asynchronous course, synchronous presentation, and discussion forum. Aspects of online course design explored within this course include course design guidelines, best practices for teaching online, online delivery tools and systems, and building learning communities. Three hours lecture per week. Prerequisite: None.	LEC	3	3
INSTTECH	590	GRADUATE INTERNSHIP	Allows students to put into practice the theories that they have learned in previous courses. Each internship must last at least 6-12 weeks in duration, be directly related to the general content of the master's program, and be supervised by a professional in the multimedia field. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	SUP	3	6
INSTTECH	599	THESIS	Conduct research in the field of instructional Technology and preparation of a formal thesis in partial fulfillment of the requirements for the Master of Science degree (with Thesis) in Instructional Technology. The courses uses Pass/Fail grading. No more than 6 credit hours may be applied to satisfying the requirements for the Master of Science degree (with Thesis) in Instructional Technology. Prerequisite: INSTTECH.546 or approval by Instructor.	THE	1	6
INTSTUDY	100	UNIVERSITY SEMINAR	Promotes a successful transition to college life for new freshmen through the presentation of critical information about the university's academic program.	SEM	1	1

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INTSTUDY	101	LIBERAL ARTS SEMINAR	Introduces incoming freshmen to an interdisciplinary study of topical content with a liberal arts focus and provides writing and research instruction to facilitate first-year students' success at the postsecondary level. Provides discussion of writing as a process (drafting, revision, editing); engages students in critical reading; and introduces effective research strategies and the use of source materials. Individual sections will complete a capstone project to demonstrate having achieved the student-learning objectives for the course. This course earns one GEP towards Goal 1 Communication and one GEP towards Goal 2 Information Literacy in general education. Prerequisites: None.	SEM	3	3
INTSTUDY	108	FORENSICS PRACTICUM	Provides students with the opportunity to learn various forms of debate, public speaking, and dramatic interpretation of literature. The ultimate goal of forensics participation is to help students become better communicators and to think critically. The Forensics Practicum will provide students with a valuable practical experience in a co-curricular activity that will assist any major in speaking situations. This will be accomplished through participation in competitive intercollegiate speech and debate tournaments. Grade awarded each semester. May be repeated. Prerequisites: None.	LEC	1	1
INTSTUDY	231	TECHNICAL WRITING	Examines the significance of writing in discipline-specific genres using multiple media to produce documents that are rhetorically astute and ethically appropriate. The ability to develop and manage information in the 21st century, is a central component of the course. This will be accomplished through lecture, course discussion, and group based projects that require both writing and software skills relevant in our current professional climate. This course will be offered during fall and spring semesters, as well as be offered during the winter term and summer sessions.	LEC	3	3
INTSTUDY	477	IND STUDY BUS 2		IND	3	3
INTSTUDY	487	THIS INTERNSHIP EXP	Internship provides outstanding students with enriching academic experience as an intern in the executive or legislative branches of state government or with state boards, agencies or commissions.	SUP	9	9
INTSTUDY	488	THIS RESEARCH PROJ	The student intern completes an individualized directed project involving substantial analysis and research. The project is related to the internship experience.	SUP	3	3
INTSTUDY	489	THIS ACADEMIC SEM	Student interns participate in a seminar coordinated by the resident director. The seminar is structured to integrate the student's work experience with a rigorous academic component and an exposure to multiple facets of state government.	SUP	3	9

INTSTUDY	491	HNRS IND STUDY HUM 1	An independent study course in which, under the guidance of a faculty mentor, the student completes the initial project(s) in the first stage of his/her proposed honors work. This course counts as a Group A, Humanities and The Arts General Education Requirements.	IND	1	3
INTSTUDY	493	HNRS IND STUDY HUM 2	Independent study in an area previously approved as part of the student's overall honors program. This course counts as a Group A, Humanities and The Arts General Education Requirements.	IND	1	3
INTSTUDY	498	HONORS IND STUDY SS2	Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply theoretical and descriptive knowledge acquired in multiple humanities disciplines. Requires approval of the internship coordinator and the dean of Arts and Sciences. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements.	IND	3	3
ITALIAN	101	ITALIAN 1	Develops the four language skills and studies the Italian culture. Stresses basic grammar. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements. Three hours lecture per week/This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester.	LEC	3	3
ITM	175	ITMA	Presents an overview of information concepts through a variety of quantitative problem solving experiences using spreadsheet and database programs. Introductory business and statistical models are examined, as students identify appropriate ways to find, evaluate, and ethically use information in aid of decision-making. Examples may include budgeting, surveys, descriptive statistics, simple regression and correlation models, time value of money problems, and order entry and inventory models. This course is a core course for business students and may be taken by students in any discipline for general education points. This course earns two GEPs toward Goal 2 Information Literacy and one GEP toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: None.	LEC	3	3
ITM	302	ENHANCED BUS APPS	Introduces the procedural design and development concepts of business applications and basic object-oriented programming. Both procedural and object-oriented programming will be covered utilizing Visual Basic (VBA) and several puzzle visual environments. This course is required for Information and Technology Management Major and Minor. It is also suitable as an elective for undergraduate students interested in business or mobile application development. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Minimum of 30 credit hours due to the degree of analysis and the expectation of performance or instructor approval.	LEC	3	3
ITM	321	ITM	Emphasizes technical skills and analytical thinking for understanding and applying business technologies. This course also explores current information technology (IT) trends, issues, and challenges facing business and information technology professionals around the world. Prerequisites: 30 earned credits or instructor approval.	LEC	3	3

ITM	322	PJT MGT	Introduces the concepts and techniques of project management: applications include information systems, healthcare, finance, and business projects. Covers project management processes, methods, tools, success factors and successful team building strategies as well as the phases of project management: project initiation, planning, executing, monitoring and controlling, and project closure. The course follows the principles set forth by the project management body of knowledge (PMBOK) as defined by the Project Management Institute (PMI). Project Management is designed for students in junior or senior standing and includes case analyses and projects throughout the semester to supplement the student learning objectives. Project management is a required course in the ITM Major and in the Bachelor of Applied Science Technology Leadership program. May be offered in traditional and distance education formats. Prerequisites: ITM.175 and MGMT.244 or permission from instructor. Three lecture hours per week.	LEC	3	3
ITM	330	TELECOMMUNICATIONS	Provides a framework for understanding telecommunications functionality, characteristics, and configurations. Topics covered are telecommunications, network topologies, protocols, and architectures and emerging telecommunication trends within organizations. Management Strategies for telecommunication planning, implementation, deployment, and security are introduced. Three lecture hours per week. Prerequisite: Students need to have a basic understanding of computer technology and the Microsoft Office Suite or equivalent for the content of this course...thus the prerequisite ITM.175, or the alternative courses MISCIS.150 or COMPSCI.110.	LEC	3	3
ITM	405	TRAINING & DEVELOP	Application of theories of learning and instructional development to the education and training of employees in organizations. Topics include instructional design, strategies, technology and the implementation, evaluation and management of training in an organizational environment. Three lecture hours per week. Prerequisite: Senior standing.	LEC	3	3
ITM	407	HTIM	Provides a broad and comprehensive overview and offers specific background relating to various approaches in assessing, analyzing, designing, implementing and evaluating technology applications and ergonomics. The dynamics of human and technology interaction management are examined with a blend of theory and practice. May be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites: 75 or more credits.	LEC	3	3
ITM	500	BUS INFO SYS & TECH	An overview of business information systems - people, technology, and procedures within organizational and environmental contexts. Provides an understanding of the evolving role of the office as a key information systems center. Three lecture hours per week.	LEC	3	3
ITM	510	BUS INFO SYSTEM APPL	Introduces the constructs, procedural development and design of business applications via declarative and imperative programming languages including functional, logic, structured, and object-based approaches. This course also includes heuristic evaluation of the applications and interface designs. 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. May be offered in traditional and distance education formats.	LEC	3	3
ITM	520	ADMIN COMMUNICATION	Provides application of communication skills for those professionals who work in business or professional environments. Topics include: oral and written reports, systems-related documents (reports, proposals, procedures), research methods, and communication technology. Three lecture hours per week.	LEC	3	3

LANGCULT	350	FOR LANG METHODOLOGY	Introduces students to theories and methods associated with the effective teaching of second languages. Designed primarily for undergraduate and graduate students planning a career as second language teachers, but open to all students interested in learning the fundamentals of second language teaching and learning. Practices creating effective second language lesson plans and incorporating the second language proficiency assessment methods of the American Council on the Teaching of Foreign Languages (ACTFL). Students participate directly in second language instruction (face-to-face and distance education). At the graduate-level, students construct research projects to investigate second language learning/teaching effects. Offers 1 GEP in Goal 1: Communication, and 2 GEPs in Goal 4: Cultures and Diversity. The course has no prerequisites at the undergraduate level. At the graduate level, the course requires permission from the Department of Teaching and Learning.	LEC	3	3
LANGCULT	397	SERV LEARN LANG	Applies knowledge of a second language to promote world languages in the community. Under the guidance of a faculty member in the Department of Languages and Cultures, university students prepare and carry out interactive lessons in after-school groups of students in grades K-8 and keep a record of their learning experiences as active advocates for world languages. This course may be repeated for a maximum of 2 GEPs for Goal 10. Prerequisites: An advanced intermediate level language course (minimum 204) or permission of the instructor.	LEC	0	1
LANGCULT	400	COMP LANG STUDIES	Explores language acquisition and linguistic diversity. Topics will include cognitive, historical and cultural aspects of language and linguistics. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: LANGCULT.200. Three hours lecture per week.	LEC	3	3
LATIN	101	LATIN 1	Develops reading and writing skills; emphasizes correct classical pronunciation. Introduction to Roman culture and civilization. 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.	LEC	3	3
LAW	120	PERSONAL LAW	Examines of the areas of the law that are likely to have a direct bearing on a person's life. Student participation required in considering the legal issues associated with relationships (marriage, divorce, adoption), finances (rental and credit card agreements, mortgages), work (employment contracts and liability), citizenship (the court system, law making process, and individual rights and responsibilities) and the hereafter (wills and trusts). Recommended for all students, regardless of major field of interest. Three hours lecture per week. This course earns one GEP toward Goal 2 Information Literacy, 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. Prerequisites: None.	LEC	3	3
LAW	331	LAW & LEGAL ENVIRON	Covers the structure of the American legal, constitutional, and regulatory system, the nature and sources of law, the courts and dispute resolution, and the principles of law applicable to business, including administrative law, the common law of contracts, torts and products liability, property, intellectual property, crimes, employment and labor law, environmental law, consumer protection, antitrust law. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: 30 credit hours.	LEC	3	3
LAW	332	BUS & COMMERCIAL LAW	Presents basic principles of commercial law (UCC), agency and such topics as debtor/creditor relations, business organizations and securities regulation, bankruptcy and ethics. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: LAW.331.	LEC	3	3

LAW	340	LAW & LITERATURE	Introduces students of all majors to law and the legal system through works of fiction, nonfiction, film and other narratives. Central features of the American legal system will be explored through the lens of legal issues that arise in business, personal life, and society at large. Topics may include negligence (tort reform), civil and criminal trial process (due process), contracts, discrimination and governmental regulation. Each literary work is analyzed in the context of the applicable law(s). The course will be offered one time each academic year. This course earns one GEP toward Goal 7 Arts and Humanities and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: 75 credits or instructor approval.	SEM	3	3
LAW	475	NEGOTIATION AND ADR	Examines the most commonly used forms of dispute resolution including negotiation, mediation, arbitration, and online methods. The examination will include the steps and procedures for each method, along with discussions of how to select the appropriate form. The course will also include a skill building component designed to improve each student's negotiation skills through the use of negotiation techniques, exercises and critiques of videotaped negotiation sessions. Three hours lecture per week. Prerequisites: LAW.331	LEC	3	3
MASSCOMM	110	INTRO TO MASS COMM	Surveys the history and development of mass media in all of its forms including television, film, music, social media, video games, magazines, newspapers, books, etc. This course also explores the idea that popular culture - the everyday messages to which we are exposed - is the dominant persuasive, rhetorical influence in most people's lives today. This course is required for students majoring in Media and Journalism. The course is open to non-majors. This course earns one GEP toward Goal 2 - Information Literacy and 2 GEPs toward Goal 4 - Cultures and Diversity in general education. May be offered in traditional and distance education formats. Three hours of lecture per week. Prerequisites: None.	LEC	3	3
MASSCOMM	230	NEWSWRITING	Offers theory and techniques of news writing and reporting for mass media, especially for the print journalism audience, including organizational characteristics of news stories and skills for gathering news materials. This course is required for students majoring in Mass Communications. This course is open to non-majors as Gen. Ed. Three hours of lecture/lab per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. May be offered in traditional and distance education formats. Prerequisites: ENGLISH 101.	LEC	3	3
MASSCOMM	251	PR: THEORY & PRACT	Introduces the principles, theories and practice of public relations in the contemporary environment. Course examines public relations definitions, theories and addresses the profession, including various structures and sub-disciplines. Course allows students to accrue 2 GEP's in Goal 1 - Communication, and 1 GEP in Goal 2 - Information Literacy. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
MASSCOMM	271	VIDEO PRODUCTION I	Concentrates on the knowledge and physical use of technical requirements that operate the growing range of equipment needed to produce contemporary television and video programs both in the studio and in the field. This course is required for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week. Prerequisites: None.	LEC	3	3

MASSCOMM	275	CINEMA APPRECIATION	Examines film form, theory and criticism to help bring about a better understanding and greater appreciation of the motion picture. This course is devoted to a diverse cultural mass medium that is the cinema and both the production of culture via a wide variety of film traditions and the consumption of culture by diverse audiences based on categories such as gender, age, race/ethnicity, religion, socioeconomic status, sexual orientation, etc. This course also strives to enhance both the cultural awareness and the visual appreciation required in the consumption of our modern media. Required for students majoring in-Mass Communications. Open to non-majors. This foundational class has no prerequisites. Three hours of lecture per week. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None.	LEC	3	3
MASSCOMM	310	MEDIA LAW AND ETHICS	Surveys legal restraints that influence the nature and content of mass media messages and business practices. Covers historical developments, criminal libel, sedition, defamation, privacy, copyright, obscenity, shield law, freedom of information, free press-free trial, unique broadcast policies, advertising and antitrust problems. Includes discussion of ethical issues facing the media. The course is typically offered every other academic semester. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: MASSCOMM.230.	LEC	3	3
MASSCOMM	334	EDITING	Presents a general overview of basic knowledge and practical skills an editor should know. This includes editing for newspapers, magazines, newsletters, and on line content. This course builds upon MASSCOMM.230, which focuses on news writing. The course is an elective for students majoring in Mass Communications. This course is only open to majors. Three hours of lecture per week. Prerequisites: MASSCOMM.230.	LEC	3	3
MASSCOMM	340	FEATURE WRITING	Studies theory and techniques of feature writing, its practices and principles, its organizational characteristics, and skills of conducting in-depth interviews. The course builds upon MASSCOMM.230, which focuses on news writing. This course is an elective for students majoring in Mass Communications. Prerequisites: MASSCOMM.230. Open to non-majors. May be offered in traditional and distance education formats. Three hours of lecture/lab per week.	LEC	3	3
MASSCOMM	352	PUBLICITY & PR	Introduces the creation of research based, strategically driven public relations tactics used in various contemporary public relations efforts. Students will prepare written, spoken, visual and digital tactics. Three-hour combination of lectures and labs per week. May be offered in traditional and distance education formats. Prerequisites: MASSCOMM.251.	LEC	3	3
MASSCOMM	371	BROADCAST JOURNALISM	Studies technical elements of broadcast writing, script formats and non-dramatic material; provides opportunities to study, write and announce news, commercials and other broadcast material. This course is an elective for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week plus three lab hours. Prerequisites: MASSCOMM.271 & MASSCOMM.230.	LEC	3	3
MASSCOMM	398	RESEARCH METHODS	Introduces students to designing and conducting research in the practice and study of mass communications and to writing an academic research paper. While emphasizing quantitative methods (e.g., surveys, experiments), qualitative methods (e.g., content analysis, interviewing, focus groups) will be discussed. Required for students majoring in Mass Communications. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: Minimum 60 credits.	LEC	3	3

MASSCOMM	455	PR: CASES & PROBLEMS	Analyzes public relations case studies examining the role of public relations professionals in social, economic and political contexts. Examines specific cases through a critical viewpoint to discern the effectiveness of particular campaigns. The role of the public relations professional in strategic planning and implementation of strategic communications programs will be addressed and reviewed. Three hours lecture per week. Prerequisites: MASSCOMM.352.	LEC	3	3
MASSCOMM	478	INDEPENDENT STUDY	Provides for individual work and study in an area of mass communications concentration. Students find a faculty sponsor/adviser and prepare a written proposal, which must have departmental approval and approval of the dean, College of Arts and Sciences.	IND	3	3
MASSCOMM	482	MASS COMM SEMINAR	Focusing predominantly on new and emerging subjects resulting from the pervasiveness of new media forms and technologies, this seminar course is largely designed to provide an outlet for faculty to cover the latest trends in media. Topics may change from semester to semester. Students may repeat seminars, subject to a change in topic and with the approvals of the instructor. This course is an elective for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: 60 or more credits or with the permission of the instructor.	SEM	3	3
MASSCOMM	497	INTERN IN COMMUNICAT	Studies a particular project, subject/topic or company arranged by the student, adviser and department chairperson. May be an on-campus or off-campus entity. Interns are expected to have completed the appropriate courses related to the internship prior to applying. Projects must be submitted in writing before the project is expected to begin and must be approved by the student's adviser and department chairperson. Special arrangements must be made for summer internships. Prerequisites: 60 credits and a GPA of 2.75 or with the permission of the department.	SUP	3	15
MASSCOMM	498	SENIOR SEMINAR	Focuses on developing necessary strategies that allow students to successfully obtain jobs in the mass communications industries or placement in graduate school. Integrates skills and working knowledge from all areas of the program for the purpose of developing a portfolio as well as job searching skills. This course is required for students majoring in Mass Communications. This course is open to majors only. This course may be offered in person, in a hybrid format or through distance education. Prerequisite: 90 credits completed, and all major requirements previously or concurrently taken. Three hours of seminar per week.	LEC	3	3
MATH	101	MATH THINKING	Presents mathematical topics and applications in a context designed to promote quantitative reasoning and the use of mathematics in solving problems and making decisions. Suitable for majors in humanities, education and others seeking a broad view of mathematics. No background in algebra required. This course earns three GEPs toward Goal 3 Analytical and Quantitative Skills in general education. This course is an approved Foundational Course. May be offered in traditional and distance education formats. Prerequisites: None. May be offered in traditional and distance education formats. Three hours of lecture per week.	LEC	3	3
MATH	109	COLLEGE ALGEBRA	Studies fundamental algebraic concepts and develops the mathematical and computation skills necessary to apply algebraic techniques to problems in business, economics, the social and natural sciences and the liberal arts. This course is an approved Foundational Course. Not open to students with a C- or higher recorded for MATH 113, MATH 123 or MATH 125. Prerequisite: ENRICH 90 Intermediate Algebra or Placement Test or SAT score high enough to place out of this requirement.	LEC	3	3

MATH	111	FINITE MATHEMATICS	Presents an introduction to logic, sets, counting techniques, probability, positional notation and non-decimal number systems. Students who have not had two years of high school algebra should take Math.109 College Algebra before taking Math.111. This course is required for students majoring in Computer Forensics. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. This course is an approved Foundational Course. Prerequisites: None. Three hours lecture per week.	LEC	3	3
MATH	113	PRE CALCULUS	Studies elementary algebraic functions and relations, exponential and logarithmic functions, circular functions and inverse functions and their applications. Students learn the mathematical knowledge needed for the study of calculus and the related quantitative natural sciences. This course is an approved Foundational Course. Prerequisites: MATH.109 or Math Placement Test result of PreCalculus.	LEC	3	3
MATH	116	ALG FOR HEALTH SCI	Develops the mathematical and computational skills necessary to apply mathematical techniques to problems in the health sciences. Topics include fundamental concepts of algebra, geometry, probability and statistics, measurements, functions, exponential and logarithmic functions, systems of equations and data fitting. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. This course is an approved Foundational Course. Prerequisites: Two years of high school algebra or the equivalent. Not open to students with credits for MATH.109, MATH.112, MATH.123, or MATH.125.	LEC	3	3
MATH	118	APPL MATRIX ALGEBRA	Introduces elementary matrix algebra and linear optimization methods for application primarily in business and social science. Includes graphical analysis of two-dimensional linear programming problems and formulation of linear models for various categories of multi-variable problems. Spreadsheet-based software is used in the solution and analysis of complex problems. Suitable for business majors and other students interested in applications of linear quantitative methods. Prerequisites: Two years of high school algebra or the equivalent. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. This course is an approved Foundational Course. Three hours lecture per week.	LEC	3	3
MATH	123	ESSENTIALS CALCULUS	Presents the basic concepts of elementary calculus in a non-rigorous approach for students who are not mathematics majors. Pertinent topics in the real number system, analytic geometry, functions and limits prepare the student for the study of the basic techniques of applications of differentiation and integration. Course is not for chemistry, mathematics or physics majors. Students without sufficient algebra background should take MATH.109 prior to taking this course. This course earns three GEPs toward Goal 3 Analytical and Quantitative Skills in general education. This course is an approved Foundational Course. Three hours lecture per week. Prerequisite: MATH.109 College Algebra or a Math Placement Test Result of Precalculus. This course is not open to students who have earned a C- or better in MATH.125.	LEC	3	3
MATH	125	CALCULUS 1	Presents differentiation of algebraic and transcendental functions of a single variable, with applications, and the beginnings of integration. It is the first in the sequence of three calculus courses designed for students majoring in mathematics and other disciplines that require calculus. This course earns two GEPs toward Goal 3 Quantitative Reasoning and one GEP toward Goal 5 Natural Sciences in general education. This course is an approved Foundational Course. Prerequisite: Qualifying for Calculus on the University Placement Exam or MATH.113 or MATH.112. Three hours of lecture per week.	LEC	4	4
MATH	126	CALCULUS 2	Presents the integral calculus of functions of a single variable, sequences, series, and applications. It is the second in the sequence of three calculus courses designed for students majoring in mathematics and other disciplines that require calculus. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: MATH.125.	LEC	4	4

MATH	141	INTRO TO STATISTICS	Provides an introduction to descriptive and inferential statistics. Topics covered include numerical and graphical summary procedures, basic probability concepts, random variables and distributions, the Central Limit Theorem, confidence intervals, and hypothesis testing. Prerequisites: High School Algebra. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education and may be offered in traditional and distance education formats. This course is an approved Foundational Course. Three hours lecture per week.	LEC	3	3
MATH	185	DISCRETE MATHEMATICS	Presents an introduction to the language of mathematics and proof. Topics include symbolic logic, set theory, relations, functions, combinatorics, and mathematical induction. The course is intended for students majoring in mathematics or computer science and is not usually taken in the first semester of freshman year. Prerequisite: MATH.125. Three hour of lecture per week.	LEC	3	3
MATH	201	CONCEPT MATH 1 THEOR	Provides a survey of mathematics aimed at a developing skills in the use of numbers, number patterns and operations with numbers. Problem solving sets and number systems are emphasized. Other topics covered are set vocabulary, elementary number theory and historic number systems. Problem solving methods and manipulatives are used where appropriate. Calculator use is not permitted in this course. This course is an approved Foundational Course. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3
MATH	202	CONCEPT MATH 2 GE ST	Provides a survey of mathematics aimed at developing skills in the use of basic geometry, probability and statistics. Conceptual models and representations are used throughout the course. Calculator use is not permitted in this course. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: MATH.201.	LEC	3	3
MATH	225	CALCULUS 3	Examines three dimensional analytic geometry and vectors, vector-valued functions, vector calculus, partial derivatives, multiple integrals, Green's theorem, Stokes' theorem and their applications. The course is designed for students majoring in mathematics and other disciplines that require calculus. The third in a three-semester calculus sequence, this course examines differentiation and integration of vector-valued functions and functions of several variables. Prerequisites: MATH.126.	LEC	4	4
MATH	226	CALCULUS 4	Presents an introduction to the differentiation and integration of real valued functions of several variables. Presents curves and parametric equations, surfaces, Taylor's, Stoke's and Green's theorems, functions between Euclidean spaces and multiple integrals. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisite: MATH.225.	LEC	3	3
MATH	231	COLLEGE GEOMETRY	Presents elementary geometry from an advanced standpoint using axiomatic, intuitive, analytic, and vector approaches. This course develops the skills of problem solving and precise thinking, and also prepares the student to teach geometry in a high school curriculum. Topics include incidence in the plane and in space, congruence, similarity, and properties of circles, polygons and spheres. Three hours of lecture per week. Prerequisite: MATH.185.	LEC	3	3
MATH	241	PROB & STATISTICS	Calculus-based study of probability and statistics. Topics covered include: descriptive statistics, probability, discrete and continuous random variables, common distributions, sampling distributions, estimation procedures and inferential statistics. A more rigorous course than MATH.141. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: MATH.126 (or concurrent) and MATH.185.	LEC	3	3

MATH	310	INTRO ABSTRACT ALG	Provides an introduction to the language and methods of abstract mathematics. Subjects include sets, relations, rings, functions, groups and fields. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: MATH.185 with a minimum grade of C- and MATH.225.	LEC	3	3
MATH	314	LINEAR ALGEBRA	Presents the theory and computational aspects of matrix operations, determinants, abstract vector spaces, linear transformations, eigenvalues and eigenvectors, and related topics. Applications of these concepts to modeling problems in science, business, and engineering may be considered. The course is intended for mathematics, computer science and science majors. Three hours of lecture per week. Prerequisites: MATH.185.	LEC	3	3
MATH	322	DIFF EQUATIONS	Studies elementary ordinary differential equations, power series solutions, some numerical methods of solution, Laplace transforms, and first-order systems of equations. Applications of these concepts in science and engineering will be considered. The course is intended for mathematics and science majors. Three hours of lecture per week. Prerequisite: MATH.126.	LEC	3	3
MATH	340	STATISTICAL SOFTWARE	Provides an introduction to the most widely-used statistical software packages in government and industry. Students gain practical experience by solving real-world statistical problems encountered by various government agencies and private companies. Graphical and numerical descriptive procedures and inferential statistical techniques will be discussed. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisite: MATH.240.	LEC	3	3
MATH	342	DES & ANALYSIS EXP	Basic experimental statistics including methods of estimation and hypothesis testing, analysis-of-variance procedures, principles of experimental design, completely randomized and randomized complete block designs, factorial arrangements of treatments, linear regression and correlation analysis, covariance analysis and distribution-free methods. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisite: MATH.141 or MATH.241 or consent of the instructor.	LEC	3	3
MATH	360	NUMBER THEORY	Presents the basics of elementary number theory. Topics include the Euclidean algorithm, divisibility, congruencies and modular arithmetic, primes, number-theoretic functions, and Diophantine equations. Emphasis is placed on making mathematical conjectures and verifying or disproving them, and on writing efficient and mathematically correct proofs. The course is intended for mathematics majors. Three hours of lecture per week. Prerequisites: MATH.185 and MATH.225.	LEC	3	3
MATH	385	INTRO COMB AND GRAPH	Presents an in-depth introduction to enumeration, discrete structures, and graphs. Topics include permutations, combinations, inclusion-exclusion, generating functions, graph structures, vulnerability, circuits, and trees. Three hours of lecture per week. Prerequisite: MATH.185.	LEC	3	3
MATH	410	MATH MODELING	Presents a synthesis of mathematical methods utilized to model and solve real-world problems. The emphasis is on developing models that provide the means to analyze and answer questions posed in practical settings. Students will learn a problem-solving approach toward applied problems in optimization, dynamical systems, and stochastic processes. The course is intended for mathematics majors. Three hours of lecture per week. Prerequisites: MATH 241 and COMPSCI 122 or COMPSCI 215 or MATH 320 or any course COMPSCI 300 or higher.	LEC	3	3

MATH	422	COMPLEX VARIABLES	A rigorous treatment of complex numbers and an introduction to the theory of functions of a complex variable. Central topics are the complex number system, analytic functions, harmonic functions and conformal mappings. Additional topics may include power series, contour integration, Cauchy's formula and applications. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: MATH.226, consent of instructor.	LEC	3	3
MATH	492	INDEPENDENT STUDY	Provides for directed study of a particular area of mathematics as mutually agreed upon by the student and the instructor. Emphasizes individual scholarly activity of the highly motivated student.	IND	1	3
MGMT	244	PRINCIPLES OF MANGT	Focuses on the fundamentals of the practice of management, including administrative, organizational and behavioral theories. It explores the functions of management and the aspects of the organizational environment. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisites: 24 credits earned.	LEC	3	3
MGMT	345	HUMAN RESOURCE MGT	Develops the capacity to help an organization deal effectively with its people during the various phases of the employment process, from organizational entry to exit. Students learn how to properly perform HR tasks such as interview job applicants, provide and communicate job performance ratings, and carry out disciplinary procedures, all within the context of prevailing legal and ethical standards. May be offered in traditional and distance education formats. Three hours per week. Prerequisite: MGMT.244 and must have 50 credits earned.	LEC	3	3
MGMT	346	LABOR & INDUST RELAT	Develops knowledge of the relationship between management and labor in situations where the relationship is governed by a collective bargaining agreement and in those where it is not. Students learn about the development of unions in the United States and the legal obligations and best practices related to protected concerted activities, union organizing campaigns, contract negotiations, impasse resolutions, and grievance procedures. The future of unions in the United States and comparisons to other countries' industrial relations systems are also explored. This course is an elective option in the Management Program. Prerequisite: MGMT 244 - Principles of Management.	LEC	3	3
MGMT	391	SMALL BUS MANAGMT	Applies small business theory and practice in the U.S. business environment. Distinguishes types of small businesses and differentiates the advantages and disadvantages associated with each type. Presents a thorough treatment of the start-up and management of small firms including forms of ownership, financing, operations, accounting, human resources, location, franchising, inventory, marketing, regulation, and risk management. Course may be offered online or in the traditional class setting. Three lecture hours per week. Prerequisites: 60 credits, ACCT.220, ACCT.223, MGMT.244, FINANCE.313, MKTG.310 and LAW.331.	LEC	3	3
MGMT	432	INTERN IN MANAGEMENT	Integrates classroom experience and practical work experience in industrial, business or government work situations. Allows students to translate academic theories and principles into action, to test career interests and to develop skills and abilities through carefully planned and supervised problems related to the field of management. Prerequisites: MGMT.244 or approval of internship supervisor or department chairperson. GPA of 2.50, 75 semester hours and major or minor in business administration.	SUP	1	6

MGMT	443	MANAGERIAL DM	This course covers application of intermediate statistical techniques to typical managerial decision contexts. Students transform accurate, relevant, and timely data into valid and reliable information as a key first step in the decision analysis that precedes the basic management practice: allocation of constrained resources. Decision processes that support optimal choices are also presented. Content includes regression analysis, analysis of variance, decision trees, and forecasting. The course is software intensive; students develop extensive spreadsheet models. Three lecture hours per week. Prerequisites: MGMT.244 and ECONOMIC.256.	LEC	3	3
MGMT	445	MANAGERIAL COMMUNIC	Prepares students for effective managerial communication by providing preparation in the process and structure of communication in a professional setting. Three lecture hours per week. Prerequisites: BUSED.333, COMMSTUD.103, MGMT.244 and 60 credits earned.	LEC	3	3
MGMT	448	SUPPLY CHAIN OPS	This course introduces students to the scope of management activities inherent in operating organizations within global supply chain contexts. Students experience how business disciplines interact and contribute data and information, within and across organizations, to support decisions necessary for successful operation of organizations and their extended supply chains. Content includes process design and analysis, project management, supply chain strategy, inventory control capacity planning, and scheduling. The course is software-intensive; students develop spreadsheet models, utilize interactive simulations, and experience enterprise systems. May be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites: ECONOMIC.256 and MGMT.244.	LEC	3	3
MGMT	449	ORGANIZAT BEHAVIOR	Discusses individual (personal/inter personal) behaviors in the organization. It also discusses group and team process, and behaviors. It studies theories and cases related to how the individual, team/group through interactions with organizational structure, processes, and leadership, do create the organizational culture and climate, and thus shape the behavior of the organization. This course is required for the Management Major and Minor. It is also suitable as an elective for undergraduate students in the College of Business. May be offered in traditional and distance education formats. Prerequisite: MGMT.244 and 60 credit hours.	LEC	3	3
MGMT	450	MANAGING QUALITY	This course introduce students to quality management programs, activities, and paradigms, and facilitates learning and applying useful problem-solving processes typical in modern workplaces. Statistical processes for evaluation and improvement of manufacturing and service processes are also covered. Content includes the quality paradigms of Crosby, Deming, and Juran, statistical process control, business process reengineering, quality award programs, ISO certification, and Six Sigma. The course is software-intensive; students utilize application software. Three lecture hours per week. Prerequisites: MGMT.244 and ECONOMIC.256.	LEC	3	3
MGMT	456	INTERNAT MANAGEMENT	Develops an understanding of the issues related to international business environment, refines this knowledge by the analysis of current economical, social and political issues that can influence international and global companies and prepares students to analyze international business issues as a manager of a multinational/global company. Three lecture hours per week. Prerequisite: MGMT.244 and junior standing. This course is approved as a Diversity General Education Course.	LEC	3	3
MGMT	457	BUSINESS & SOCIETY	Prepares students to manage social responsibility and ethics issues related to business operations and the interests of multiple stakeholders. This course is required for Management majors. It is also suitable as an elective for undergraduate students interested in business ethics and corporate social responsibility. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisites: MGMT.244 and 60 credits earned.	LEC	3	3

MGMT	463	EMPLOYEE STAFFING	Examines the procedures used by companies to recruit and hire employees. Students learn how organizations seek to improve effectiveness by ensuring each job is legally staffed by a fully capable individual. Topics covered include job analysis, employee recruitment, selection techniques, validation procedures and legal restraints on employee selection practices. Three lecture hours per week. Prerequisite: MGMT.345 - Human Resource Management and junior standing.	LEC	3	3
MGMT	464	COMPENSATION MANGT	Examines the development of a firm's compensation system. Students learn how companies design their compensation systems in an effort to enhance their recruiting, motivation and retention of employees. Topics covered include job evaluation, salary surveys, pay-for-performance programs, legal issues, and the design and evaluation of employee benefits packages. Three lecture hours per week. Prerequisite: MGMT.345.	LEC	3	3
MGMT	481	BUSINESS POLICIES	Prepares students in the area of strategic decision-making for the total organization through strategic formulation and administration using integrative analysis and strategic planning and process. Three lecture hours per week. Prerequisites: 90 semester hours earned, MGMT.244, FINANCE.313, MKTG.310, LAW.331 and senior standing.	LEC	3	3
MGMT	515	LEADERSHIP	Develops the capacity to lead in organizational situations. Students acquire	LEC	3	3
MGMT	582	HR SKILLS MANAGERS	Develops the capacity to help an organization deal effectively with its people during the various phases of the employment process, from organizational entry to exit. Students learn how to properly perform HR tasks such as interview job applicants, provide and communicate job performance ratings, and carry out disciplinary procedures, all within the context of prevailing legal and ethical standards. May be offered in traditional and distance education formats. Three hours per week. Prerequisites: Graduate Standing.	LEC	3	3
MISCIS	150	INTRO INFO TECH	Introduces computer-based systems and their use in problem solving and information processing. Includes a study of hardware and software concepts, data management, data communications and system development. Involves hands-on experience with word processing, spreadsheet and file management software using networked microcomputers. Three hours lecture per week. Prerequisite: None.	LEC	3	3
MISCIS	310	DECISION SUPPORT SYS	This course will provide an understanding of how computer based systems can be used to support semi-structured decisions in managerial contexts. Adopting the perspective of a business manager, this course places emphasis on developing the skills necessary to use decision support technologies to enhance the ability to identify problems and develop solutions. Besides developing an understanding of decision modeling, students will learn to use spreadsheets and packaged software as a decision support tool to structure and solve business problems. Three hours lecture per week. Prerequisite: MISCIS.150.	LEC	3	3
MISCIS	351	SYS ANALYSIS & DES	Provides an opportunity to bring together experiences in CIS courses, other business courses and life in general to develop information systems. Helps develop skills required for successful business system development. Three hours lecture per week. Prerequisite: MISCIS.150.	LEC	3	3
MISCIS	450	EXP SYST & ART INTEL	A survey of basic concepts and techniques of expert systems and artificial intelligence applied to commercial information systems. Examines knowledge acquisition, representation, storage and inference methods used in expert systems. Stresses the applications, and uses illustrations, from the business environment. Three hours lecture per week. Prerequisite: MISCIS.150.	LEC	3	3

MISCIS	474	SYST DEV	This is a cornerstone course during which students will work on teams to analyze a business problem and design and implement a computer-based solution to the business problem. During the course, project management techniques and contemporary system development tools, necessary for the development, will be covered. Prerequisite: MISCIS.354 and senior standing. Three hours lecture per week. Prerequisite: MISCIS.354.	LEC	3	3
MKTG	310	MARKETNG PRIN & PRAC	Surveys the fundamental features of contemporary marketing systems and the planning required to make available satisfying goods and services to customers at a profit. Explains the role of marketing in society and the institutions which compose the market system. Describes components of the marketing mix-product planning, distribution, pricing and promotion. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisite: ECONOMIC.121 and ECONOMIC.122.	LEC	3	3
MKTG	330	CONSUMER MOTIV & BEH	Analyzes the role of the consumer as the ultimate buyer of the product and the strategy and forces directed at the consumer by the seller. Topics include models of consumer buying behavior, consumer motivation, interpersonal and intrapersonal influence on the consumer as a decision maker in the market place. This course may be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites: MKTG.310 and PSYCH.101.	LEC	3	3
MKTG	331	E-MARKETING	Introduces students to the fundamentals of digital marketing and its application within online and mobile environments. Special emphasis will be placed on how digital marketing has disrupted the traditional marketing landscape and its influence on the sales funnel, creating customer personas, customer and brand relationships, consumer value and bonding, the importance of content development, native advertising among digital platforms, and the impact of analytics in decision-making. This course will equip students with the skills and tools necessary for developing and implementing successful strategic digital marketing outcomes. This course is intended for marketing students or as an elective for students in other business or academic disciplines. Prerequisite: MKTG 310 - Marketing Principles and Practices.	LEC	3	3
MKTG	340	ADVERTISING MANAGMT	Provides students with a foundation in the development and execution of communications strategies for any organization. Primary emphasis is placed on consumer insight, branding, market segmentation and positioning, message strategy, promotion and the execution of marketing communications through appropriate media technologies. Students will develop an understanding of marketing communications practice through readings, lectures, case analysis and discussions and will demonstrate effective decision-making in ambiguous marketing environments, using financial and market analysis, and considering legal and ethical concerns. The course develops students' ability to think analytically and strategically by assessing examples and case studies of marketing communications problems and opportunities. This course may be offered in traditional and distance education formats. Prerequisite: MKTG.310.	LEC	3	3
MKTG	341	PRIN OF SELLING	Analyzes selling as a profession, includes preparation for successful selling, steps and procedures associated with the sales process, and special selling topics. Students apply sales principles and techniques while conducting sales presentations. Three lecture hours per week. Prerequisite: MKTG.310.	LEC	3	3
MKTG	350	RETAIL MGT CONCEPTS	Presents retailing and retail management from a holistic, omnichannel perspective. The course is designed to embrace the evolution of retailing by understanding the impact technology has on retailers and consumers. The traditional retail environment will be discussed as well as retailing in the digital age. The course will cover elements of the channels distribution system, consumer/marketing analysis, store location, store layout, merchandising, pricing, service levels, and promotional issues using an omnichannel business model. This course may be offered in traditional and distance education formats. Prerequisites: MKTG.310.	LEC	3	3

MKTG	370	SALES MANAGEMENT	Examines the personal selling element of the marketing/promotional program from a management perspective. Recruiting, selecting, training, organizing motivating, compensating, evaluating and controlling the sales force are treated as well as management's planning responsibilities which include designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management. Prerequisite: MKTG 310	LEC	3	3
MKTG	380	INTERNATIONAL MARKET	Examines the universality of the marketing discipline throughout diverse global economies. Conducts cross cultural analyses to understand cultural universals and the economic integration of regional alliances, such as the European Union. Assesses various entry strategies such as exporting, joint ventures, direct investment and turn key operations. Highlights the corporate role of global strategic partnerships in producing a higher standard of living. Three lecture hours per week. Prerequisite: MKTG.310. May be offered in traditional and distance education formats.	LEC	3	3
MKTG	432	INTERN IN MARKETING	Develops applied marketing skills in an experiential setting that are not available in the academic classroom. Students learn to relate marketing principles and practices to an employment situation. Prerequisites: MKTG.310, 2.5 GPA, 80 semester hours and junior or senior standing.	SUP	1	6
MKTG	440	MARKETING RESEARCH	Develops the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis and interpretation). Applies research data collection methods and statistical analysis to product mix issues such as planning, advertising research, consumer or competitive analysis. Three lecture hours per week. Prerequisites: ECONOMIC 256 - Bus & Economics Statistics I or PSYCH 160 - Applied Statistics for the Behavioral Sciences.	LEC	3	3
MKTG	460	MARKETING MANAGEMENT	Takes a holistic approach to marketing management by integrating theoretical marketing perspectives into system models. Course analyses apply problem solving skills to strategic and theoretical issues in marketing systems such as products, services, pricing, places, ideas, and organizations. Marketing concepts are integrated with advanced sciences such as economics, behavioral sciences, management, and mathematics. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisite: MKTG.310, MKTG.330 plus six additional credits in Marketing.	LEC	3	3
MKTG	551	MARKETING MANAGEMENT	Develops the strategic application of marketing in an organization through the analysis of marketing activities. Integrates the analysis of global marketing opportunities, segmentation of target audiences, growth and competitive strategy, marketing research systems, buyer behavior and marketing mix development. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisite: Graduate Standing.	LEC	3	3
MUSIC	100	RECITAL ATTENDANCE	Documents recital attendance requirement for all tracks of the Bachelor of Arts in Music. May be repeated at zero credit each semester.	LAB	0	0
MUSIC	101	MUSIC LISTENING	Provides an approach to music listening through study of basic vocal and instrumental styles from Ancient Greece and the Middle Ages through the current day, with analysis of various masterpieces, composers and musical forms. Requires no previous musical experience. This is a recommended first course in non-applied music. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None.	LEC	3	3

MUSIC	102	WORLD MUSIC	Explores the musical traditions and historical relevance of several different cultures from around the world, including India, Africa, Ireland, Japan, Bali, Latin America, China, and Native America. Through the use of a selected text, website references, and a series of selected listening examples; the student's knowledge of these musical cultures will be broadened. There will also be a "hands-on" aspect of the course where the students will be able to experience some of the musical styles through performance. Requires no previous musical experience. Offered Fall and Spring semesters. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three hours lecture per week. Prerequisite: None.	LEC	3	3
MUSIC	106	MAROON & GOLD BAND	Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring.	ACT	0	1
MUSIC	107	UNIV COMM ORCHESTRA	Performs music appropriate to the symphony orchestra. Requires 3 hours per week. Rehearses Monday evenings. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only.	ACT	0	1
MUSIC	108	CONCERT CHOIR	Performs choral music of varied styles and periods. Membership by audition only. Requires 4 hours per week.	ACT	0	1
MUSIC	109	WOMENS CHORAL	Performs varied styles from popular to masterworks. Requires 3 hours per week. No audition required.	ACT	0	1
MUSIC	110	HUSKY SINGERS	Performs varied music for men's chorus. Requires 2 hours per week. No audition required.	ACT	0	1
MUSIC	112	JAZZ ENSEMBLE		ACT	0	1
MUSIC	118	INTRO TO MUSED	Provides music education majors with the knowledge and skills necessary to meet the requirements of formal acceptance in the music education program and introduces students to teaching music in today's complex global society. Students will begin their 45 hours of field observations and draw connections and distinctions between the reading assignments and their real-world experiences. Offered in the fall semester. Prerequisite: For Music Education Majors.	LEC	1	1
MUSIC	170	UNIV CHAMBER ORCH	The University Chamber Orchestra performs music appropriate to the chamber orchestra. Requires 2 hours per week. Rehearses Monday evening and one 50-minute class period. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only.	ACT	0	1
MUSIC	171	WIND ENSEMBLE	Provides opportunities for a select wind and percussion group to perform advanced repertoire each semester. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only.	ACT	0	1
MUSIC	172	GITAR ENSEMBLE	Provides its members with the skills needed to perform music of varied styles and periods written or transcribed for guitar ensemble. Three hours per week for zero-1 credit. May be repeated. Prerequisites: By audition only.	LEC	0	1
MUSIC	173	PERCUSSION ENSEMBLE	Provides its members with the skills needed to perform a variety of percussion instruments in a small and large ensemble setting. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only.	ACT	0	1

MUSIC	203	VOICE METHODS	Provides group voice instruction and teaching methodology. Emphasizing traditional solo and ensemble singing and sight reading. Includes general discussion of vocal mechanism and capabilities of both children and adults. As students learn to use their own voices, pedagogical principles are discussed in the class as they apply to the different levels of student development. Two hours per week. Prerequisites: Music Majors only.	LAB	1	1
MUSIC	204	CLASS PIANO 1	Provides group piano instruction for the beginner. Emphasizes solo playing, sight-reading and creative accompaniment. Requires 2 hours per week. Limited seating.	LEC	2	2
MUSIC	205	CLASS PIANO 2	Develops independence in solo playing and accompanying. Continuation of MUSIC.204 or students with demonstrated abilities. Requires 2 hours per week. Consent of instructor.	LEC	2	2
MUSIC	209	PERCUSSION METHODS	Fundamental percussion techniques and teaching methodology. Prerequisite: music major or permission of the instructor.	LAB	1	1
MUSIC	211	THEORY 2	Continues Music Theory I with the study of seventh chords and common-chord and chromatic modulations. Includes melodic and rhythmic dictation and keyboard realization. Requires 3 hours per week. Prerequisite: MUSIC.210.	LEC	3	3
MUSIC	212	CLASS PIANO 3	Continuation of MUSIC.205 or students with demonstrated abilities. Requires 2 hours per week. Limited seating.	LEC	2	2
MUSIC	213	VIOLIN	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	214	VIOLA	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	215	VIOLONCELLO	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	216	DOUBLE BASS	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	219	AUDIO RECORDING	Provides a theoretical and practical approach to audio recording. Studies equipment and procedures used in professional recording studios. Reserved for music majors and minors in the audio/video recording track and/or permission of the instructor.	LEC	3	3
MUSIC	220	STRINGS METHODS 2	Fundamentals of playing and teaching the cello and bass. This is a required course for the music education certification track. Music majors or by permission of the instructor.	LAB	1	1
MUSIC	229	MUSIC ED COMP & TECH	Introduces technology as it is used in the educational setting, with focus on technology distinct to music education along with its legal and ethical use. There will also be an emphasis on recording technology and live sound reinforcement theory and practice as related to a music educational setting and its legal and ethical use. Offered fall semesters of odd years. Prerequisite: For Music Education Majors. This course earns two GEPs toward Goal 2 Information Literacy in general education.	LEC	2	2

MUSIC	230	VOICE	Private instruction for students with demonstrated vocal abilities. One-half hour per week. May be repeated at 1 semester hour each election. Prerequisite: MUSIC.203 except music majors and declared music minors. Consent of instructor.	TUT	1	1
MUSIC	231	GENERAL CONDUCTING	General conducting is designed to give students a basic understanding of the fundamentals of choral and instrumental conducting. It will also begin training in the physical motion required of the conductor. These physical attributes include beat patterns, cueing gestures, steady tempo, accelerando, ritard and face as an expressive tool. In addition, the students will study foreign musical terms (Italian, French, German), score preparation and techniques, rhythmic patterns and rehearsal techniques.	LAB	1	1
MUSIC	232	WOODWIND METHODS 1	Fundamental woodwind skills in flute, oboe, and bassoon and methods for teaching these instruments. Prerequisite: music major or permission of the instructor.	LAB	1	1
MUSIC	234	GUITAR	One half hour guitar lesson and weekly one hour performance lab for students with demonstrated ability or potential. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	235	PIANO	Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	240	TRUMPET	Private instructions for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	241	HORN		TUT	1	1
MUSIC	242	TROMBONE		TUT	1	1
MUSIC	243	BARITONE		TUT	1	1
MUSIC	244	TUBA	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	249	AURAL SKILLS I	Focuses on aural recognition and performance of basic rhythms and melodies, recognition of harmonic progressions, improvement of sight-singing skills, and some melodic and harmonic keyboard facility. First aural skills course in a sequence specifically designed for music majors and minors. Prerequisites: To be taken concurrently MUSIC.250 and Music major or minor, or permission of instructor. Meets two hours per week. The course is offered in the fall semester.	LEC	1	1
MUSIC	250	DIATONIC HARMONY	Focuses on music fundamentals including notation, rhythm, key signatures, scales, intervals, triads, seventh chords, part writing and analysis. This course is designed as the first music theory course in a sequence for music majors and minors. Prerequisites: To be taken concurrently with MUSIC.249 and Music major or minor, or permission of instructor. This course is offered in the Fall semester.	LEC	3	3
MUSIC	251	FLUTE		TUT	1	1
MUSIC	252	OBOE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1

MUSIC	253	CLARINET	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	254	BASSOON	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	255	SAXOPHONE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	256	PERCUSSION	Private instruction with snare, timpani and mallets for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	269	GUITAR MUSIC MAJOR	One hour guitar lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. Consent of instructor.	TUT	2	2
MUSIC	270	VIOLIN MUS MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	271	VIOLA MUS MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	272	VIOLONCELLO MUS MAJ	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	273	DOUBLE BASS MUS MAJ	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	275	VOICE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied voice specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	276	PIANO MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	277	TRUMPET MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	278	HORN MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	279	TROMBONE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	280	BARITONE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2

MUSIC	281	TUBA MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	282	FLUTE MUSIC MAJOR	Two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	283	OBOE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	284	CLARINET MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	285	BASSOON MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	286	SAXOPHONE MUS MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	297	CLASS VOICE	Provides group voice instruction for theatre productions. Emphasizes traditional solo singing, and includes general discussion of vocal mechanism and healthy use in stage performance situations. Prerequisites: Music or Theatre Majors only. Two hours per week.	LEC	2	2
MUSIC	298	SIGHT SINGING II	Develops the musical ear through progressive training. The student will read, write, and perform music (singing and at the keyboard) building on previous skills attained in Sight Singing I. Requires 3 hours per week. Prerequisite: Sight Singing I. To be taken concurrently with Theory II (MUSIC.211).	LAB	2	2
MUSIC	300	THEORY 3	Form and Analysis. Continuation of music theory. Includes formal analysis, design, original composition, harmonic dictation and perception skills. Requires 3 hours per week. Prerequisite: MUSIC.211.	LEC	3	3
MUSIC	302	KEYBOARD SKILLS 2	Provides opportunity for majors in music to gain proficiency at the keyboard. May be repeated. Prerequisite: Keyboard Skills I or permission of the instructor.	TUT	2	2
MUSIC	305	SP TOPICS MUSIC EDUC	Provides a study of music beyond currently available course topics. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed.	LEC	1	1
MUSIC	306	MAROON & GOLD BAND	Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring.	ACT	0	1
MUSIC	307	UNIV COMM ORCHESTRA	Performs music appropriate to the symphony orchestra. Requires 3 hours per week. Rehearses Monday evenings. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only.	ACT	0	1
MUSIC	308	CONCERT CHOIR	Performs choral music of varied styles and periods. Membership by audition only. Requires 4 hours per week.	ACT	0	1
MUSIC	309	WOMENS CHORAL	Performs varied styles from popular to masterworks. Requires 3 hours per week. No audition required.	ACT	0	1

MUSIC	310	HUSKY SINGERS	Performs varied music for men's chorus. Requires 2 hours per week. No audition required.	ACT	0	1
MUSIC	312	JAZZ ENSEMBLE	Performs jazz, swing and other forms representing the big band style. Requires 3 hours per week. Election requires permission of the instructor. Audition may be necessary.	ACT	0	1
MUSIC	313	VIOLIN	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	314	VIOLA	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	315	VIOLONCELLO	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	316	DOUBLE BASS	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	319	SEC METH CURR MUSIC	This course will provide the knowledge and skills necessary to teach music successfully in secondary schools. Education theories must be applied in practical situations such as the creation of lesson plans and the teaching of those lesson plans. Familiarity with computer-assisted music software, familiarity with the legal aspects of teaching music in high schools, and required high school observations will be included. Prerequisite: 48 hours credit.	LEC	3	3
MUSIC	321	MUSIC HIST TO 1750	Emphasizes understanding and appreciation of music from antiquity to 1750 through reading, lecture, listening, and score study with a focus on research and writing skills in the discipline. This course links with MUSIC.322 (Music History II), which completes the survey of Western Art Music to the present day. The course is intended for Music Majors and Music Minors, and requires a basic ability to read standard music notation in musical score format. This course is taught in the fall of each year. Prerequisites: MUSIC.105. This course earns three GEPs toward Goal 1 Communication in general education.	LEC	3	3
MUSIC	330	VOICE		TUT	1	1
MUSIC	333	AUDIO RECORDING LAB	This course will allow music majors in the audio recording track to work on individual projects as directed by the professor. The projects will be targeted to build upon skills learned in 35.219 Basic Audio Recording, as well as new concepts and allow the students to build a portfolio of their work as an aide to future employment in the field. Prerequisite: Basic Audio Recording	LAB	1	1
MUSIC	334	GUITAR	One half hour guitar lesson and weekly one hour performance lab for students with demonstrated ability or potential. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	335	PIANO	Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	340	TRUMPET	Private instructions for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	341	HORN		TUT	1	1

MUSIC	342	TROMBONE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	343	BARITONE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	344	TUBA	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	349	APP MUSIC COMPOSITION	Provides private instruction in music composition. For students with demonstrated ability for potential. One half hour per week. This course may be repeated for credit. Prerequisites: 35.210, 35.211 and the consent of instructor required.	TUT	1	1
MUSIC	351	FLUTE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	352	OBOE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	353	CLARINET	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	354	BASSOON	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	355	SAXOPHONE	Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	356	PERCUSSION	Private instruction with snare, timpani and mallets for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.	TUT	1	1
MUSIC	370	UNIV CHAMBER ORCH	The University Chamber Orchestra performs music appropriate to the chamber orchestra. Requires 2 hours per week. Rehearses Monday evening and one 50-minute class period. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only.	ACT	0	1
MUSIC	371	WIND ENSEMBLE	Provides opportunities for a select wind and percussion group to perform advanced repertoire each semester. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only.	LEC	0	1
MUSIC	372	GUITAR ENSEMBLE	Provides its members with the skills needed to perform music of varied styles and periods written or transcribed for guitar ensemble. Three hours per week for zero-1 credit. May be repeated. Prerequisites: By audition only.	ACT	0	1
MUSIC	373	PERCUSSION ENSEMBLE	Provides its members with the skills needed to perform a variety of percussion instruments in a small and large ensemble setting. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only.	ACT	0	1

MUSIC	411	THEORY VI/ORCHESTRAT	Examines instrumental transposition, idioms, score writing and analysis. Fifth music theory course in a sequence specifically designed for music majors. Requires 3 hours per week. Prerequisite: Music 380: Advanced Harmony (with a minimum grade of C), or permission of instructor. This course is offered in fall semesters.	LEC	2	2
MUSIC	424	AUDIO RECORDING 3	Introduces the techniques involved in mastering audio recordings. Mastering is the last creative step in the audio recording process and bridges the gap between mixing and replication. This is a lab course, which meets three hours a week. Prerequisites: 35.332.	LAB	2	2
MUSIC	426	AUDIO RECORDING V	Introduces techniques for writing and producing music for film, as well as investigation into the aesthetic relationship between film and music. The course will also include discussion of the many functions of film music with analysis of its most effective application to dramatic situations. This course is a lab course which meets three hours per week. Prerequisites: 35.332 and 35.211.	LAB	2	2
MUSIC	469	GUITAR MUSIC MAJOR	One hour guitar lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. Consent of instructor.	TUT	2	2
MUSIC	470	VIOLIN MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	471	VIOLA MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	472	VIOLONCELLO MUS MAJ	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	473	DOUBLE BASS MUS MAJ	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	475	VOICE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied voice specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	476	PIANO MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	477	TRUMPET MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	478	HORN MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	479	TROMBONE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	480	BARITONE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2

MUSIC	481	TUBA MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	482	FLUTE MUSIC MAJOR	Two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	483	OBOE MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	484	CLARINET MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	485	BASSOON MUSIC MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	486	SAXOPHONE MUS MAJOR	Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.	TUT	2	2
MUSIC	487	PERCUSSION MUSIC MAJ	One hour percussion lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at two semester hours each election for maximum of 16 semester hours. Prerequisites: For music majors or permission of instructor.	TUT	2	2
MUSIC	495	TCH MUSIC ED EXP 1	Provides opportunities for direct participation in teaching. Places students in classrooms with public or private school teachers. The student's main interest determines the assignment: one experience is wholly with the student's main interest in music, one experience is divided in half to cover the remaining requirements. The total experiences must include elementary, middle, and high school experience. The total experiences must also include general music, choral and instrumental teaching. Prerequisite: All other required music education courses.	FLD	6	6
MUSIC	496	TCH MUSIC ED EXP 2	Provides opportunities for direct participation in teaching. Places students in classrooms with public or private school teachers. The student's main interest determines the assignment: one experience is wholly with the student's main interest in music, one experience is divided in half to cover the remaining requirements. The total experiences must include elementary, middle, and high school experience. The total experiences must also include general music, choral and instrumental teaching. Prerequisite: All other required music education courses.	FLD	6	6
MUSIC	507	UNIV COMM ORCHESTRA		ACT	0	1
NATSCI	498	INTERN N SCI & MATH	Internship provides on-site work experience and training program to give selected intern an opportunity to apply the theoretical and descriptive knowledge acquired in multiple natural sciences and mathematics disciplines. Requires approval of the internship coordinator and the dean of Science and Technology.	SUP	1	9

NURSING	100	PERS HLTH: PER PERS	Provides students with information and tools to maintain and improve their personal health through accountability for health behaviors and decision making. Major themes include exploration of: many dimensions of health; factors impacting the health and wellness of individuals; individual behaviors which promote change and improved health for self and others and; current health issues for individuals and society. This course is intended for students of all disciplines. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education. Three (3) hours of lecture per week. Prerequisites: None.	LEC	3	3
NURSING	210	PROFESSIONAL NURSING	Introduces the student to the Bloomsburg University undergraduate nursing program and the concepts and processes of professional nursing with emphasis on written and oral communication, and information literacy skills as foundational elements in the discipline. The mission, philosophy, and conceptual model of the curriculum are defined and discussed. Major foundational elements and concepts of the nursing program are integrated into all aspects of the course. Students develop the view of person as a holistic open-system who is growing and developing across the life span. Exploration of the person's environment is included as related to nursing practice. Nursing roles are examined. Laboratory activities furnish opportunities to develop skills in information literacy, technology, written and oral communication including group dynamics, and teaching. Communication skills are continually applied as the student demonstrates the professional nursing and teaching roles with clients in the community. Two hours of lecture and three hours of clinical laboratory per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. Prerequisites: BIOLOGY.173, BIOLOGY.174, CHEM.101, CHEM.108, PSYCH.101, PSYCH.210, SOC.211 or SOC.213 or ANTHRO.200, and BIO 240, NURSING 214 and NURSING 215.	CLN	3	3
NURSING	210	PROFESSIONAL NURSING	Introduces the student to the Bloomsburg University undergraduate nursing program and the concepts and processes of professional nursing with emphasis on written and oral communication, and information literacy skills as foundational elements in the discipline. The mission, philosophy, and conceptual model of the curriculum are defined and discussed. Major foundational elements and concepts of the nursing program are integrated into all aspects of the course. Students develop the view of person as a holistic open-system who is growing and developing across the life span. Exploration of the person's environment is included as related to nursing practice. Nursing roles are examined. Laboratory activities furnish opportunities to develop skills in information literacy, technology, written and oral communication including group dynamics, and teaching. Communication skills are continually applied as the student demonstrates the professional nursing and teaching roles with clients in the community. Two hours of lecture and three hours of clinical laboratory per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. Prerequisites: BIOLOGY.173, BIOLOGY.174, CHEM.101, CHEM.108, PSYCH.101, PSYCH.210, SOC.211 or SOC.213 or ANTHRO.200, and BIO 240, NURSING 214 and NURSING 215.	LEC	3	3
NURSING	214	HEALTH ASSESSMENT	Introduces techniques and principles of health assessment for adult clients. Communication and interviewing skills are reinforced throughout the course. Health patterns of adults are assessed. Validation of health histories and practice of review of systems and basic assessment skills will occur in the Health Assessment Simulated Learning Laboratory. Prerequisites: prior to or concurrent with NURSING.210.	CLN	3	3
NURSING	214	HEALTH ASSESSMENT	Introduces techniques and principles of health assessment for adult clients. Communication and interviewing skills are reinforced throughout the course. Health patterns of adults are assessed. Validation of health histories and practice of review of systems and basic assessment skills will occur in the Health Assessment Simulated Learning Laboratory. Prerequisites: prior to or concurrent with NURSING.210.	LEC	3	3

NURSING	215	PATHO NURSING PRACT	The course is designed to assist the student to apply physiological principles as a means of understanding pathological conditions. Pathophysiological disruptions to system functioning are presented. The impact of these disruptions on the individual is discussed. Students will develop an understanding of the signs and symptoms associated with selected pathophysiological disruptions as a basis for determining nursing care needs. Prerequisites: BIOLOGY.173, BIOLOGY.174, CHEM.101, CHEM.108, PSYCH.101, PSYCH.210; SOC.211 or SOC.213 or ANTHRO.200. Concurrent with NURSING.210 and NURSING.214.	LEC	3	3
NURSING	217	ALCOHOL: USE & ABUSE	Provides a comprehensive overview of alcohol: its use and abuse. The nature of alcohol problems, causes and consequences of alcohol use, abuse and dependence in terms of epidemiological, physical, gender, psychological, sociological, treatment, and public policy perspectives are discussed. Controversial issues and myths regarding alcohol consumption are critically analyzed from health, ethical, moral, spiritual, sociocultural, legal and political frameworks. Opportunities for reflection on and examination of personal belief system about alcohol use within the context of personal and social responsibility are provided. Because alcohol abuse and dependence are leading public health and legal problems in the U.S., this course is intended for students in all disciplines. This course earns two GEPs toward Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education. Three (3) hours of lecture per week. May be offered in traditional or distance education formats. Prerequisites: None.	LEC	3	3
NURSING	307	CONTEMP HLTH AGING	This course focuses on the health care issues of aging. Students will examine the impact of biopsychosocial - cultural factors on the aging process using an interdisciplinary process. Topics include: basic needs, geropharmacology, mental health issues, chronic health problems, end of life issues, and legal and ethical implications. This course is designed as a values course for students interested in health care, aging, or as personal enrichment. This course approved as 3 credits of Values, Ethics and Responsible Decision Making toward general education requirements. Three hours lecture per week. Prerequisites: None.	LEC	3	3
NURSING	310	FAMILY NURSING	Focuses on culturally congruent nursing care of the family in present day society. Students are introduced to theory and concepts related to family health care nursing. The family nursing process is used to identify culturally appropriate health promotion and health maintenance strategies as well as social determinants resulting in health disparities. Assessment and analysis of sociocultural, economic, spiritual, and environmental factors on the family's health functions, perceptions, interpretations, and behaviors are explored. This course earns one GEP toward Goal 4 Cultures and Diversity in general education. May be offered in traditional and distance education formats. Two hours lecture per week. Prerequisites: NURSING.305.	LEC	2	2
NURSING	311	ADULT HEALTH 1	Focuses on the application of the nursing process to promote and restore the health of older adults with chronic or potentially life threatening illnesses. Students apply developmental theory related to the older adult while providing health care. Increasing independence in nursing roles occurs as students collaborate with health care providers in a variety of settings. Three hours theory and 14 hours clinical per week. Prerequisites: BIO 240, NURSING 210, NURSING 211, NURSING 212, NURSING 213, NURSING 214 and NURSING 215	CLN	7	7
NURSING	311	ADULT HEALTH 1	Focuses on the application of the nursing process to promote and restore the health of older adults with chronic or potentially life threatening illnesses. Students apply developmental theory related to the older adult while providing health care. Increasing independence in nursing roles occurs as students collaborate with health care providers in a variety of settings. Three hours theory and 14 hours clinical per week. Prerequisites: BIO 240, NURSING 210, NURSING 211, NURSING 212, NURSING 213, NURSING 214 and NURSING 215	LEC	7	7

NURSING	312	MATN/CHLD HLTH NUR 3	Focuses on family-centered nursing and application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of maternal and child health nursing. Students use critical thinking, effective communication skills, information and technology and assessment findings to provide safe, evidence-based nursing care to women, neonates, children, and their families in community and hospital based settings. Students incorporate professional values, and behaviors as they collaborate with a variety of health care providers. Prerequisites: Sophomore level nursing courses: NURSING.210, NURSING.211, NURSING.212, NURSING.213, NURSING.214, NURSING.215.	CLN	8	8
NURSING	312	MATN/CHLD HLTH NUR 3	Focuses on family-centered nursing and application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of maternal and child health nursing. Students use critical thinking, effective communication skills, information and technology and assessment findings to provide safe, evidence-based nursing care to women, neonates, children, and their families in community and hospital based settings. Students incorporate professional values, and behaviors as they collaborate with a variety of health care providers. Prerequisites: Sophomore level nursing courses: NURSING.210, NURSING.211, NURSING.212, NURSING.213, NURSING.214, NURSING.215.	LEC	8	8
NURSING	410	PUBLIC HLTH NURSING	Focuses on the use of demography, biostatistics, epidemiology, and population assessment to promote the health of individuals, aggregates, and populations. Participation in aggregate and population-focused activities such as assessment, planning, and implementation is cultivated. Collaboration with others to implement evidenced-base strategies for clinical prevention of illness, injury, disability, and premature death is advanced. Role development will be fostered through independent and interdependent activities with groups and organizations providing care with attention to health disparity, vulnerability, and culturally diverse populations. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. Prerequisites: NURSING.306, NURSING.311, NURSING.312, NURSING.314; NURSING.305 and NURSING.306 for RNs.	CLN	5	5
NURSING	410	PUBLIC HLTH NURSING	Focuses on the use of demography, biostatistics, epidemiology, and population assessment to promote the health of individuals, aggregates, and populations. Participation in aggregate and population-focused activities such as assessment, planning, and implementation is cultivated. Collaboration with others to implement evidenced-base strategies for clinical prevention of illness, injury, disability, and premature death is advanced. Role development will be fostered through independent and interdependent activities with groups and organizations providing care with attention to health disparity, vulnerability, and culturally diverse populations. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. Prerequisites: NURSING.306, NURSING.311, NURSING.312, NURSING.314; NURSING.305 and NURSING.306 for RNs.	LEC	5	5
NURSING	411	PSYCH/MENT HLTH NURS	Focuses on the application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of psychiatric-mental health nursing. Students use critical thinking, effective communication skills, information and technology, and assessment findings to diagnose, plan, deliver and evaluate quality patient-centered care. Students incorporate professional values and behaviors as they employ a "therapeutic use of self" and function in collaborative roles with clients, support systems, and other providers to deliver holistic, safe, evidence-based care within a diverse, global society. Three hours theory and eight hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312 and NURSING.314.	CLN	5	5

NURSING	411	PSYCH/MENT HLTH NURS	Focuses on the application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of psychiatric-mental health nursing. Students use critical thinking, effective communication skills, information and technology, and assessment findings to diagnose, plan, deliver and evaluate quality patient-centered care. Students incorporate professional values and behaviors as they employ a "therapeutic use of self" and function in collaborative roles with clients, support systems, and other providers to deliver holistic, safe, evidence-based care within a diverse, global society. Three hours theory and eight hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312 and NURSING.314.	LEC	5	5
NURSING	412	ADULT HEALTH NURSE 2	Focuses on providing care for adult clients with complex needs. Students employ critical thinking to problem-solving and make decisions. Student use nursing process, therapeutic skills and technology in assisting these clients to attain an optimal level of functioning. They collaborate with clients and the interdisciplinary team to promote, maintain and restore optimal health to a variety of clients. Learning experiences provide opportunities for students to develop proficiency as a practitioner, teacher, leader/manager, and consumer of research. The course promotes integration of values into professional behaviors and accountability for personal and professional growth. Three hours Theory and twelve to sixteen hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314.	CLN	7	7
NURSING	412	ADULT HEALTH NURSE 2	Focuses on providing care for adult clients with complex needs. Students employ critical thinking to problem-solving and make decisions. Student use nursing process, therapeutic skills and technology in assisting these clients to attain an optimal level of functioning. They collaborate with clients and the interdisciplinary team to promote, maintain and restore optimal health to a variety of clients. Learning experiences provide opportunities for students to develop proficiency as a practitioner, teacher, leader/manager, and consumer of research. The course promotes integration of values into professional behaviors and accountability for personal and professional growth. Three hours Theory and twelve to sixteen hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314.	LEC	7	7
NURSING	414	LDRSHP & MGT NURSING	Focuses on management principles; including leadership theories and concepts, decision-making processes, budgeting guidelines and case management concepts. Content on public policy and health care economics is incorporated. Principles from this course are integrated into concurrent clinical courses to enhance professional role development for pre-licensure students and RN-BSN students. Three hours Theory and three hours practicum per week. May be offered in traditional and distance education formats. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314 OR NURSING.305 for RN-BSN students.	CLN	4	4
NURSING	414	LDRSHP & MGT NURSING	Focuses on management principles; including leadership theories and concepts, decision-making processes, budgeting guidelines and case management concepts. Content on public policy and health care economics is incorporated. Principles from this course are integrated into concurrent clinical courses to enhance professional role development for pre-licensure students and RN-BSN students. Three hours Theory and three hours practicum per week. May be offered in traditional and distance education formats. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314 OR NURSING.305 for RN-BSN students.	LEC	4	4
NURSING	492	HIS I NURSING	Applies the research process to a selected problem or topic in nursing. The study will be conducted under the supervision of a nursing faculty member. Emphasizes individual scholarly activity of the student. This course is open to nursing students in the Honors Program.	IND	3	3

NURSING	501	THEOR ROLE DEV ADV	Focuses on the examination of philosophical and theoretical constructs related to role development in advanced nursing practice. Advanced practice domains of clinical practice, teaching and coaching, consultation, intra and inter-professional collaboration, care coordination, conflict resolution, research, nursing theory, leadership, quality improvement, advocacy, and ethical decision-making are explored. The reciprocal interrelationships among theory, theoretical frameworks and conceptual models, domains of practice, and research as integral components of nursing science development, evidence-based advanced nursing practice, education, and leadership are investigated. Theory development and strategies for the evaluation and testing of theories are explored. The student will identify concepts, principles and strategies inherent in a variety of nursing and related theories, (i.e., systems, change, professional socialization, leadership, chaos, complexity, organizational, etc.) to serve as a framework for the development and enrichment of own advanced practice roles. The student will analyze and apply the tenets of a conceptual model or theory of nursing to own philosophy of advanced nursing practice and potential practice issues/situations. Three hours lecture per week. When offered as a web-based course, three hours web based instruction per week. Prerequisites: None.	LEC	3	3
NURSING	503	BASES RES ADV NURS	Provides a deeper understanding and critical appraisal of nursing research for application to evidence-based practice. Application of the steps of evidence based nursing practice is stressed. The proper formulation of Population Intervention Comparison Outcome Time (PICOT) questions, learning how to search relevant databases for evidence, critically appraising the evidence, and synthesizing the research findings are all emphasized. Development of a plan for implementation of the evidence and/or for generating additional evidence to improve nursing practice is addressed. Three hours lecture per week. Prerequisites: None.	LEC	3	3
NURSING	504	PATH ADV NURS PRACT	Provides the central concepts of physiology and pathologic mechanisms of	LEC	3	3
NURSING	508	LIFE HEALTH ASSESS	This course focuses on developing the students competence in performing health/physical assessment across the lifespan. Learning experiences are provided for synthesizing cognitive knowledge with psychomotor skills. Throughout the course emphasis is placed on the importance of communication and observational skills in conducting a holistic assessment for the purpose of developing a thorough understanding of the individual in order to determine appropriate and effective health care, including health promotion strategies across the lifespan. This assessment includes genetic, social, environmental, functional, cultural, spiritual, psychosocial, developmental and comprehensive physical examination. Four credits theory, Two credits Clinical. Prerequisite or co-requisites: NURSING.504.	CLN	6	6
NURSING	508	LIFE HEALTH ASSESS	This course focuses on developing the students competence in performing health/physical assessment across the lifespan. Learning experiences are provided for synthesizing cognitive knowledge with psychomotor skills. Throughout the course emphasis is placed on the importance of communication and observational skills in conducting a holistic assessment for the purpose of developing a thorough understanding of the individual in order to determine appropriate and effective health care, including health promotion strategies across the lifespan. This assessment includes genetic, social, environmental, functional, cultural, spiritual, psychosocial, developmental and comprehensive physical examination. Four credits theory, Two credits Clinical. Prerequisite or co-requisites: NURSING.504.	LEC	6	6

NURSING	513	MGT&ORG NURS ADM	Applies managerial theories and concepts to the practice and performance of nursing administration behavior, management information systems and use of managerial principles, organizational behavior, management information systems and financial accounting related to healthcare administration for the delivery of safe, effective, and quality healthcare. The focus of the clinical experience within this course is the application of the theoretical and practical knowledge to assist nurse leaders to meet the demands of ongoing and changing patient care services managed with complex adaptive systems. This is a foundational course upon which Nursing 533 - Organizational Nursing Leadership in Health Care Delivery Systems is built. Prerequisites: NURSING 501, 502, 503 and 520; ACCT 511; MGMT 560, 567 and 582.	LEC	6	6
NURSING	516	DIAG MGT HLTH PROB 2	Focuses on the diagnosis and management of health problems in young adults (including late adolescents and emancipated minors), adults, and older adults (including young-old and old-old adults). Emphasis is placed on developing knowledge related to the most common diagnoses and problems across the entire adult-older adult age spectrum in primary care. These include, but are not limited to, ears, eyes, nose, throat, abdomen, neurological, musculoskeletal, and reproductive	CLN	6	6
NURSING	516	DIAG MGT HLTH PROB 2	Focuses on the diagnosis and management of health problems in young adults (including late adolescents and emancipated minors), adults, and older adults (including young-old and old-old adults). Emphasis is placed on developing knowledge related to the most common diagnoses and problems across the entire adult-older adult age spectrum in primary care. These include, but are not limited to, ears, eyes, nose, throat, abdomen, neurological, musculoskeletal, and reproductive	LEC	6	6
NURSING	517	DX & MANAGE CHILD/PG	Focuses on the assessment, diagnosis, and management of infants, toddlers, children, and pregnant women with common episodic and chronic conditions within the context of their families, social environment, and culture. Emphasis is on the developmental stages, age appropriate primary and secondary prevention and risk reduction strategies using evidence-based guidelines. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to the family nurse practitioner role in primary care. Perquisites: NURSING.515 and NURSING.516.	CLN	6	6
NURSING	517	DX & MANAGE CHILD/PG	Focuses on the assessment, diagnosis, and management of infants, toddlers, children, and pregnant women with common episodic and chronic conditions within the context of their families, social environment, and culture. Emphasis is on the developmental stages, age appropriate primary and secondary prevention and risk reduction strategies using evidence-based guidelines. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to the family nurse practitioner role in primary care. Perquisites: NURSING.515 and NURSING.516.	LEC	6	6
NURSING	520	COMM ASSESS PLANNING	Provides students with the knowledge and skills to perform a comprehensive community assessment and develop a program for an identified health need of a population. Students will use concepts from nursing theory, epidemiology, cultural principles, and evidence-based practice research to identify a community population need, develop a proposed solution and plan of intervention to reach an improved health outcome. The preparation of a grant proposal to address the community/population need will be a major focus of the intervention. Three (3) - 2 credit hours theory, 1 credit hour practicum. When offered as a web-based course, three hours web based instruction per week. Prerequisite: None.	LEC	3	3
NURSING	525	PHARM ANEST NUR PRAC	This is a detailed study of the pharmacological principles of inhaled anesthetics, intravenous induction agents, intravenous anesthetics, local anesthetics, muscle relaxants, and clinically important reactions that may be exhibited as related to advanced nursing practice. Prerequisites: NURSING.518, NURSING.523, NURSING.535 and Concurrent with NURSING.526, NURSING.536.	LEC	3	3

NURSING	526	ADV PHYS ANEST NUR 1	An in-depth study of the cell including its structure and function. Focus is then placed on the study of the anatomic structures and related physicochemical mechanisms governing respiratory and cardiovascular function for advanced nursing practice in anesthesia. Prerequisites: NURSING.518, NURSING.523, NURSING.535 and Concurrent with NURSING.525, NURSING.536.	LEC	3	3
NURSING	536	ANES NSG PRAC CONF II	Continues with the development of skills and knowledge related to nurse anesthesia. Through individually supervised instruction, the student utilizes the knowledge and skills related to anesthesia and advanced practice nursing in the delivery of patient care. Clinical case conferences will focus on the presentation of case studies and the discussion of patient outcomes. A journal club will be a component part of this clinical conference. Prerequisites: NURSING 518, NURSING 523 and NURSING 535.	CLN	3	4
NURSING	539	AD ANES NSG PRC CF II	Emphasize the development of a practitioner who can assume an independent role in providing anesthesia care to the critically ill patient. Focus is on the scholarly development of the student in regard to evidence based practice. An evidence-based practice issue specific to the critically ill patient will be explored and will result in a scholarly paper and interprofessional presentation. Prerequisites: NURSING.518, 523, 524, 525, 526, 527, 528, 535,536, 537, 538.	LEC	5	5
PHIL	110	CRITICAL THINKING	Surveys several forms of argument, including inductive, deductive, analogical and legal reasoning, in order to teach students how to construct and evaluate arguments effectively. Designed for students who aim to improve critical thinking skills. This course fulfills requirements for the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education.	LEC	3	3
PHIL	111	INTRO TO PHILOSOPHY	Presents reflective inquiry into selected problems of general philosophic interest. Considers the types of knowledge, Individual and social values, free will, the nature of the self, the nature of reality and the existence of God. This course earns three GEPs toward Goal 7 Arts and Humanities in general education, and fulfills requirements for the Philosophy major and minor. Three hours lecture per week. Open to all students, Prerequisites: None.	LEC	3	3
PHIL	270	LOGIC	Surveys modern theories of deductive logic, first as they apply to non-qualified sentences and then as they apply to quantified sentences. Students learn a formal order deductive language as well as techniques for translating sentences into first order languages and detecting logical truth and implication in first order languages. This course can be taken to fulfill General Education (3 GEPs for Goal 3, Analytical and Quantitative Skills), and for the Philosophy major and minor. Although the target audience for this course includes predominantly philosophy majors, math majors, and any major for which analytical and/or quantitative reasoning skills are relevant, the course has no prerequisites and is open to all majors. Three lecture hours per week.	LEC	3	3
PHIL	290	MEDICAL ETHICS	Presents reflective inquiry into selected problems in medical ethics. Students consider the diversity of perspectives on ethical issues in the practice of medicine such as the physician-patient relationship, patient autonomy, informed consent, assisted suicide, justice in the distribution of health care, and the moral risks of genetic testing. This course applies to the Philosophy major and minor. Three hours lecture per week. Open to all students. May be offered in traditional and distance education formats. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education.	LEC	3	3

PHIL	292	CONT MORAL PROBLEMS	Presents reflective inquiry into selected problems in social ethics. Students consider ethical issues in contemporary society such as animal rights, world hunger, same-sex marriage, abortion, censorship, the legalization of drugs, and capital punishment. This course applies to the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education.	LEC	3	3
PHIL	295	BUSINESS ETHICS	Presents reflective inquiry into selected problems in business ethics. Students consider the diversity of perspectives on ethical issues in the practice of business such as corporate social responsibility, property rights and profit, job discrimination, sexual harassment, whistle blowing, and employee rights. This course applies for the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education.	LEC	3	3
PHIL	321	PLATO & ARISTOTLE	Studies the origins of Western philosophy in ancient Greece. Examines Plato's philosophical writings in light of pre-Socratic speculation on one hand and in terms of Aristotle's criticisms and developments on the other. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
PHIL	329	20TH CENTURY PHIL	Examines 20th century philosophical movements. Emphasizes the relation between language and philosophy, particularly views about truth, free will, the nature of morality and religion and the nature of mind. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
PHIL	403	PHIL OF SCIENCE	Explores the philosophical issues that arise concerning the interpretation, development, comparison, and demise of scientific theories, including (and not limited to) topics in scientific versus non-scientific knowledge, confirmation and induction, scientific change and revolution, the reduction of one theory to another, realist versus anti-realist interpretations of scientific theories, and the bearing of social factors upon scientific development. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
PHIL	405	PHILOSOPHY OF LAW	Examines the theoretical background of the law and legal systems. Encourages students to develop their own views about the proper use of the law. Topics include the concepts of law and legal system, limits of the law and justification of punishment. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
PHIL	409	PHIL AES EXPER	Students will pursue some of the classic texts relevant to philosophical aesthetics, for example, those found in Immanuel Kant and Arthur Schopenhauer. We will then turn our attention to questions concerning the perceptual, cognitive, and contextual components relevant to aesthetic experience with particular focus on what qualities, objects, or phenomena constitute the proper objects of experience designated as aesthetic. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisites: None. Three hours lecture per week.	LEC	3	3
PHYSICS	103	PRIN PHYS SCI 1	Provides an introduction to the basic concepts of physical science by studying such topics as the structure and properties of matter, motion and forces, energy, light and sound, electricity and magnetism, and astronomy. It is designed for elementary education and special education majors. Four hours of integrated class/laboratory time per week. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisite: None.	LAB	3	3

PHYSICS	103	PRIN PHYS SCI 1	Provides an introduction to the basic concepts of physical science by studying such topics as the structure and properties of matter, motion and forces, energy, light and sound, electricity and magnetism, and astronomy. It is designed for elementary education and special education majors. Four hours of integrated class/laboratory time per week. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisite: None.	LEC	3	3
PHYSICS	105	ENERGY:SOURC ENV EFF	Explains energy in elementary scientific terms and examines present national and international energy situations in regard to sources, utilization and environmental effects. Surveys fossil fuels and nuclear, solar, geothermal and other energies with respect to availability and promise for the future. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three Hours lecture per week.	LEC	3	3
PHYSICS	106	SCIENCE OF SOUND	Provides an introduction to the principles of sound and its reproduction. Familiarity with college-level algebra and basic trigonometry required, but no experience in physics or electronics necessary. Three hours of lecture per week. Prerequisites: None.	LEC	3	3
PHYSICS	110	INTRO TO ASTRONOMY	Surveys the physical state of the universe and the variety of objects it comprises: the solar system, stars, and galaxies. When possible, evening telescopic observing sessions will be periodically scheduled. Provides both a descriptive account of the present state of our knowledge of the cosmos and an understanding of how such knowledge is obtained. Intended for non-science majors. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three class hours per week. May be offered in traditional and distance education formats. Prerequisites: None.	LEC	3	3
PHYSICS	111	INTRO PHYSICS 1	Presents an intuitive approach to selected topics such as kinematics, mechanics, work, energy, fluids, and heat. Not intended for students specializing in physics or chemistry. Although calculus is not used, familiarity with college-level algebra and basic trigonometry is assumed. Six hours per week: 3 lecture and 3 laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LAB	4	4
PHYSICS	111	INTRO PHYSICS 1	Presents an intuitive approach to selected topics such as kinematics, mechanics, work, energy, fluids, and heat. Not intended for students specializing in physics or chemistry. Although calculus is not used, familiarity with college-level algebra and basic trigonometry is assumed. Six hours per week: 3 lecture and 3 laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None.	LEC	4	4
PHYSICS	123	CONTEMPORARY PHYSICS	Surveys contemporary topics in physics, such as relativity, particle physics, nuclear physics, quantum mechanics, and computational physics. Prerequisite: None. Three hours lecture per week.	LEC	3	3
PHYSICS	211	GENERAL PHYSICS 1	Provides an introduction to physics using Calculus. Studies mechanics, the physics of fluids, kinetic theory, oscillations, waves, heat and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: MATH.125 or concurrent.	LAB	4	4

PHYSICS	211	GENERAL PHYSICS 1	Provides an introduction to physics using Calculus. Studies mechanics, the physics of fluids, kinetic theory, oscillations, waves, heat and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: MATH.125 or concurrent.	LEC	4	4
PHYSICS	212	GENERAL PHYSICS 2	Studies wave motion, sound, geometrical and physical optics, electricity and magnetism. Continuation of PHYSICS.211. Six hours per week: 3 classes, 3 laboratories. Prerequisites: MATH.126 or concurrent registration; PHYSICS.211 or PHYSICS.111 with consent of instructor.	LAB	4	4
PHYSICS	212	GENERAL PHYSICS 2	Studies wave motion, sound, geometrical and physical optics, electricity and magnetism. Continuation of PHYSICS.211. Six hours per week: 3 classes, 3 laboratories. Prerequisites: MATH.126 or concurrent registration; PHYSICS.211 or PHYSICS.111 with consent of instructor.	LEC	4	4
PHYSICS	316	DIGITAL ELECTRONICS	An introduction to the techniques and devices of digital electronics. Includes practical experience of the building and testing of digital circuits. Supplies the background necessary for the understanding of microprocessors and computer circuits. Three hours of lecture per week. Prerequisite: junior standing or consent of instructor.	LEC	3	3
PHYSICS	320	NUCLEAR RADIATIONS 1	Presents a laboratory-oriented course using modern nuclear electronics and detectors for measuring and analyzing nuclear radiation. Four hours per week: one class, 3 laboratories. Prerequisite: PHYSICS.212.	LEC	2	2
PHYSICS	400	ADVAN PHYSICS LAB	Presents the basic tenets of lab work in physics, involving considerations of experimental error, proper research and preparation of an experiment. Includes experiments primarily from the areas of atomic physics, electricity, magnetism and optics. 3 laboratory hours per week. Prerequisites: PHYSICS.310.	LEC	2	2
PHYSICS	422	THERMODYNAMICS	Presents concepts and principles of classical thermodynamics, thermodynamics of simple systems, introduction to kinetic theory and statistical thermodynamics. Three hours of lecture per week. Prerequisite: PHYSICS.212 or PHYSICS.112 with consent of instructor; Mathematics MATH.225.	LEC	3	3
PHYSICS	450	INTRO QUANTUM MECH	Examines the development and interpretation of Schrodinger's wave mechanics, its mathematical formalism and the results and predictions of this quantum theory as applied to one-dimensional systems, the hydrogen atom and multi-electron atoms. Three hours of lecture per week. Prerequisite: PHYSICS.310; Mathematics MATH.225.	LEC	3	3
PHYSICS	492	PHYSICS RESEARCH 1	Provides for an application of theoretical and/or experimental research methods to a special problem. May be interdisciplinary. Requires the preparation of a report and a plan, approved in advance by the department chairperson, which is acceptable to the student and the supervising faculty member.	IND	1	3
POLISCI	101	ELEMENTS OF POL SCI	Surveys basic concepts and theories related to the study of Political Science and applies this material to a diverse range of cultural and institutional settings. Students gain significant exposure to salient current events. This course is open to all students and serves as an elective for the minor in Political Science. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. Three hours lecture per week. This course does not count toward the political science major. Prerequisites: None.	LEC	3	3

POLISCI	120	U S GOVERNMENT	Introduces the formation of United States Government, the Constitutional basis of government, governmental structure, citizen input, law making and the development of public policy. The course provides students with the skills and knowledge to be responsible citizens. It is open to all students and is required of Political Science majors and minors. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: None. Three hours lecture per week.	LEC	3	3
POLISCI	181	CONT ISSUE WORLD POL	Explores a broad range of global political, economic and social issues, focusing in particular on the content and controversies associated with each issue. The course uses the trends and processes of globalization to understand the global nature and interconnectedness of various issues, and how an issue may impact at the local, regional and global level. Students will examine global issues from multiple cultural and ethical viewpoints. This is an introductory course designed for all undergraduates from any major. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 2 Information Literacy and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. There will be 3 hours of lecture/discussion per week. Prerequisites: None.	LEC	3	3
POLISCI	280	INTRO TO INT'L REL	Surveys the major theories and concepts used by international relations scholars; explores the relations among states and other political and economic actors in international relations; and analyzes major issues in contemporary international relations, focusing in particular on how to apply relevant theories to explaining those issues. Three hours of lecture per week. This course is open to all students and is required for Political Science majors. Prerequisites: None. May be offered in traditional and distance education formats. This course earns three GEPs toward Goal 6 Social Sciences in general education.	LEC	3	3
POLISCI	336	PUBLIC ADM THEORY	Introduces students to Public Administration as an independent field of study, engaging the student in a study of the various theoretical influences on the discipline. The emphasis throughout the course will be the multi-dimensional nature of Public Administration and the political, social and economic factors that influence the public sector in the United States. The method of delivery is face to face, and the course is offered approximately every two years. Prerequisites: 30 completed credits.	LEC	3	3
POLISCI	371	POL SYSTEMS-AFRICA	Examines problems of African countries: the struggle for independence; attempts to create national unity and political stability; economic and political development; the role of the military in politics; and politics in selected African countries. The method of delivery is face to face, and the course is offered approximately once every other year. Prerequisites: 30 completed credits.	LEC	3	3
POLISCI	440	PRESIDENT & CONGRESS	Investigates the work of a number of practitioners, notables, and theorists who are recognized as forming the foundations of the political system that exists in the United States. Theoretical readings are selected to emphasize the nature of republican constitutionalism. The debates of the founders will be the basis of this study. Finally, a survey of contemporary debates will provide insight into the specific issues that are central to political life today. The method of delivery is face to face and the course is offered approximately every two years. Prerequisites: 30 completed credits.	LEC	3	3
POLISCI	446	CONSTITUTIONAL LAW 1	Analyzes the evolution, structure and function of the Supreme Court, concentrating on a case study approach of the court's interpretations of the powers of the president, Congress and federal-state relationships. The method of delivery is face to face, and the course is offered approximately every two years. Prerequisites: 60 completed credits.	LEC	3	3

POLISCI	462	IT & WORLD POLITICS	Analyzes the practical impacts of information revolution on diplomacy, international political economy, and national security; examines how state governments, intergovernmental organizations, non-governmental organizations, and individuals utilize information and communication technologies in global politics and world economy. The method of delivery is face to face and the course is usually offered once every two years. Prerequisites: 30 completed credits.	LEC	3	3
POLISCI	470	POLI SCI CAPSTONE	Provides students with an opportunity to demonstrate knowledge and concepts learned throughout their time as a political science major and bring together disparate materials in the discipline into an understandable whole. Prerequisite: Must have earned at least 100 credits. For majors only.	LEC	1	1
POLISCI	490	INDEPENDENT STUDY	Provides for individualized reading, research and reporting under the supervision of a faculty member. Projects must have departmental approval and must begin by the end of the first week of a session. This course counts as a Group B, Social and Behavioral Sciences General Education Requirements. Three hours lecture per week.	IND	1	6
POLISCI	492	SEMINAR-GOVT & POL	Examines problems in government and politics in an attempt to review and unify theories and methods of political science. Emphasizes individual research projects. This course counts as a Group B, Social and Behavioral Sciences General Education Requirements. Three hours lecture per week.	SEM	3	3
POLISCI	497	INTERNSHIP POL SCI	Provides for on-site work experience and training designed to give the student an opportunity to apply the theoretical and descriptive knowledge acquired in the classroom. The student is supervised by a faculty member instructor and an on-site internship supervisor. The method of delivery is face to face, and the course is usually offered every semester based on student need. Prerequisites: Complete all core courses in Political Science (POLISCI108, POLISCI 120, POLISCI 260, POLISCI 280); complete POLISCI 300; complete at least 4 out of 6 advanced/elective courses by the start of the internship; cumulative GPA of at least 2.00; gain permission from academic advisor; complete at least 60 credit hours, or by permission of the department chair.	SUP	1	15
POLISCI	517	IMMIGRATION POLICY	Applies a comparative perspective to the study of immigration policy in a cross-national setting. Prerequisites: As outlined in the M.A. program bulletin. Three hours lecture per week.	LEC	3	3
POLISCI	522	WOMEN/PUBLIC POLICY	Explores the influence of women in different political systems on public policy decisions. The course explores women' use of existing systems and norms to have decision makers focus on issues such as war, economics, education, health and participation. It is an in depth examination of the interaction of women and institutions inside and outside of government. Three hours lecture per week.	LEC	3	3
POLISCI	578	POL EMER NATIONS	Examines the political developments in the emergent nation-states of the world since 1945. Many of these nation-states were dependent territories of imperial powers. The course critically examines the attempts at nation building of these nation-states in the post-colonial, post- cold war era. The problems and challenges of nation-building shall be explored. The rise of the Non-Aligned Movement and its impact on international relations will be examined. Three hours lecture per week.	LEC	3	3
PROFSTUD	301	TEACH LEARN & ASSESS	A study of how teaching, learning and assessment are used collectively in kindergarten through twelfth grade classroom settings. The emphasis is on how teaching, learning and assessment are impacted by the Pennsylvania Academic Standards and effectively used by the teaching professional. Presents appropriate standards-based pedagogy, utilizing researched-based practices to train preservice teachers. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: 48 Credit hours.	LEC	3	3

PROFSTUD	320	INCLUSION PRACTICUM	Provides application of theories in learning, assessment, classroom management and teaching strategies to inclusive school settings. Topics include building home/school partnerships, environmental/curricular adaptations, instructional support teams, collaboration, cooperative learning, mastery learning, classroom management, whole language, curriculum-based assessments, peer coaching. Prerequisite: junior or senior status.	LEC	6	6
PROFSTUD	431	HONORS IND STUDY PS1	Independent study, under guidance of a faculty mentor, of a substantial research or creative topic.	IND	3	3
PROFSTUD	432	HONORS IND STUDY PS2	Independent study, under guidance of a faculty mentor, of a substantial research or creative topic.	IND	3	3
PROFSTUD	494	ELL STRAT. & METHODS	This course is designed for pre-service and practicing professionals providing ELL instruction. Participants will be able to identify, design, and implement ELL program materials to facilitate English proficiency and academic standards. Instructional materials and strategies will be based on educational and language learning theory to develop appropriate methodology to use with children at diverse levels of English Proficiency. This course is designed to meet the ELL Program Specialist certification for instructional materials/development. This course satisfies 3 credits of the communication requirement for general education. Three hours lecture per week.	LEC	3	3
PROFSTUD	500	GRAD PROF SEMINAR	Provides all students at entrance to graduate programs in the College of Education (and Professional Education Unit), the Graduate Professional Seminar (GPS) a non-credit "pathway" course. The faculty of the COE Advanced Programs at Bloomsburg University have designed the GPS to facilitate graduate students in developing an understanding of core programmatic requirements, scholarly demands and competency expectations (collaborative abilities, critical-thinking skills, rigor/relevance integration, etc.). Additionally, this seminar is designed to build a foundation for the student's graduate experience and future professional career. May be offered in traditional and distance education formats. Prerequisites: Admission to the Graduate Program.	SEM	0	0
PROFSTUD	501	TEACH LEARN & ASSESS	A study of how teaching, learning and assessment are used collectively in kindergarten through twelfth grade classroom settings. The emphasis is on how teaching, learning and assessment are impacted by the Pennsylvania Academic Standards and effectively used by the teaching professional. Presents appropriate standards based pedagogy, utilizing researched-based practices to train preservice teachers. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
PROFSTUD	591	RESEARCH IN EDUC	Studies methods and techniques used in educational research; development and interpretation of statistical data and application to professional problems. Three hours lecture per week.	LEC	3	3
PROFSTUD	594	ELL STRAT. & METHODS	This course is designed for pre-service and practicing professionals providing ESL instruction. Participants will be able to identify design, and implement ESP program materials to facilitate English proficiency and academic standards. Instructional materials and strategies will be based on educational and language learning theory to develop appropriate methodology to use with children at diverse levels of English Proficiency. This course is designed to meet the ESL Program Specialist certification for instructional materials/development. Three hours lecture per week.	LEC	3	3
PROFSTUD	599	THESIS	Student demonstrates ability to employ accepted methods of educational research in the solution or intensive study of some problem area of interest or concern. The problem area selected for the research project must be related to the curriculum that the student is pursuing.	THE	3	6

PSYCH	101	GENERAL PSYCHOLOGY	Studies psychology as a system of scientific inquiry into behavior, mental processes, and social relationships. Major concepts and principles of the discipline are presented. This foundational class has no prerequisites. This course may be taken to fulfill General Education (3 GEPs for Goal 6, Social Sciences), psychology major or psychology minor requirements. Three hours of lecture per week.	LEC	3	3
PSYCH	101	GENERAL PSYCHOLOGY	Studies psychology as a system of scientific inquiry into behavior, mental processes, and social relationships. Major concepts and principles of the discipline are presented. This foundational class has no prerequisites. This course may be taken to fulfill General Education (3 GEPs for Goal 6, Social Sciences), psychology major or psychology minor requirements. Three hours of lecture per week.	LEC	3	3
PSYCH	131	PSY OF ADJUSTMENT	Examines the personal and social meaning of psychological adjustment. Emphasizes growth and well-being, concepts of stress and coping, and psychosocial competence in adulthood. This course requires active participation in class discussion and willingness to challenge one's preconceptions and consider alternative psychological points of view. It concerns the application of psychological concepts and research to stress and coping in everyday adult life, emphasizing coping skills and techniques. This course is an elective and offers 2 GEPs for Goal 10 - Citizenship. Prerequisites: None.	LEC	3	3
PSYCH	160	BASIC STATISTICS	Introduces and applies fundamental statistical concepts, principles, and procedures to the analysis of data related to the behavioral sciences. Students learn computation, interpretation, and application of commonly used descriptive, correlational, and inferential statistical procedures as they relate to behavioral science research. It is required for students majoring or minoring in Psychology, and is offered every semester. This course earns two GEPs toward Goal 3 Analytical and Quantitative Skills in general education. Prerequisite: None. Three hours lecture per week.	LEC	3	3
PSYCH	210	LIFE SPAN PSYCHOLOGY	Examines concepts and issues related to human development from conception to death. Summarizes major developmental milestones in physical, cognitive, and social-emotional development. Discusses major theories and perspectives on human development. This course counts toward a psychology minor and is an elective for psychology majors. Prerequisite: PSYCH.101.	LEC	3	3
PSYCH	211	EARLY CHILD DEV	Examines concepts and issues related to child development from the prenatal period through middle childhood. Summarizes major concepts, theories, research, and best practices in physical, cognitive, social, and emotional development. Multiple sections of PSYCH 211 are typically offered every semester. Prerequisites: PSYCH 101 - Intro to Psychology.	LEC	3	3
PSYCH	212	ADOLESCENT DEV	Studies cognitive, social, emotional and biological development during the transition from childhood to adulthood (roughly the second decade of life) and personal and social issues affecting adolescents. This course will especially benefit students who desire to improve understanding of their own development and/or who work with or plan to work with adolescents providing, e.g., instruction, parenting, health or psychological care, or supervision. Fulfills requirements for psychology major. Three hours lecture per week. Prerequisite: PSYCH.101.	LEC	3	3
PSYCH	253	SOCIAL PSYCHOLOGY	Introduces the scientific study of how people's thoughts, feelings, and behaviors are affected by the actual, imagined, or implied presence of others. Topics include social perception and cognition, aggression, conformity, helping behavior, relationships, group processes. Course is intended for psychology majors and minors. Three hours lecture per week. Prerequisite: PSYCH.101.	LEC	3	3

PSYCH	281	EXPER PSY:METHDOLOGY	Builds on students' background in Applied Statistics (PSYCH 160) and affords opportunities for students to interpret and design basic psychological research, improve their information literacy, and apply APA ethical standards. Topics covered include the scientific method, research approaches and designs, and ethical issues in psychological research. The course counts towards the Psychology major and minor. Prerequisites: PSYCH 101 and PSYCH 160 (with a minimum grade of C in each). The course may only be repeated once.	LEC	3	3
PSYCH	282	EXPER PSY:APPLICATNS	Allows students to use their background in applied statistics (PSYCH 160) and research methodology (PSYCH 281) to design and/or conduct studies with human participants and non-human animal subjects. This course affords opportunities for students to improve their information literacy, apply APA ethical standards, and learn to write effectively in psychology. The course counts towards the psychology major. Prerequisites: PSYCH 101, PSYCH 160 and PSYCH 281 (with a minimum grade of C in each).	LEC	3	3
PSYCH	309	EARLY CHILD COG DEV	Studies cognitive development in humans. Focus is on theories of cognitive development and research on the development of memory, problem solving, language and literacy, intelligence, neurological correlates of cognition, as well as social cognition. Factors affecting motivation, achievement, and self-control may also be considered. Additional emphasis placed on instructional implications of theories and research. Counts for the Psychology minor. This course is an elective for Psychology majors. Prerequisites: PSYCH 101, PSYCH 211 or PSYCH 212 and 60 credits earned.	LEC	3	3
PSYCH	310	MIDDLE CHILD COG DEV	Examines cognitive development from fourth through eighth grade. Focus is on theories of cognitive development and developmental changes in thinking, problem solving, memory, perception, language, intelligence, and social cognition. Additional emphasis placed on instructional and educational implications of these changes. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: PSYCH.101 and PSYCH.214.	LEC	3	3
PSYCH	311	ADULTHOOD AND AGING	Examines the psychological development of individuals moving from their early twenties into old age. With an equal emphasis on young, middle, and late adulthood, this course explores personality development, cognitive development and everyday problem solving, friendships, love relationships, parenting, career growth and challenges, healthy lifestyles and successful aging. In addition to concluding with end-of-life health concerns and decisions, topics also include wisdom, life satisfaction, and happiness. This course is offered in fall semesters. Three hours lecture per week. Prerequisites: PSYCH.101.	LEC	3	3
PSYCH	321	PSY TESTS & MEASURES	Introduces the logic of psychological measurement including the applied and practical aspects of psychological testing with emphasis on reliability, validity and test norms. Provides background for test evaluation. Fulfills requirements for psychology major; may help prepare students for graduate training in a variety of subfields within psychology (e.g., school, clinical, rehabilitative, or counseling psychology) and related fields such as occupational or speech therapy. Three hours lecture per week. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C or consent of the instructor.	LEC	3	3
PSYCH	337	DEV PSYCHOPATHOLOGY	Examines psychological theory, research, and best practices related to mental disorders that affect children and youth. More specifically, this course surveys the literature on the prevalence, symptoms, causes, and course of child psychopathologies. This course also investigates ethical issues surrounding the assessment and treatment of mental disorders in children and youth. Taught primarily through traditional classroom-based lectures, discussions, and multimedia presentations, this course also may include service learning and/or project-based activities. Developmental Psychopathology may be taken in partial fulfillment of the requirements of the psychology major. Prerequisites: PSYCH.101, PSYCH.160 (minimum of C), PSYCH 211 or PSYCH 212, PSYCH 281 (minimum of C) and PSYCH 282.	LEC	3	3

PSYCH	340	COMMUNITY PSYCHOLOGY	Surveys theory, research and action concerning the relationships between the individual and community life. Topics include the psychological sense of community, human diversity, promotion of health and socioemotional competence, citizen participation, community change and methods of community research. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C, or consent of the instructor.	LEC	3	3
PSYCH	341	THEORY PRAC ACAD PSY	Utilizes a seminar format classroom experience along with opportunities to work with students in PSYCH 101 through discussions, presentations, reviews, and tutoring. Using PSYCH 101 content, students will explore pedagogical techniques and assessment methods. There is a strong emphasis on ethical and professional behaviors in all interactions, including those with PSYCH 101 students and other teaching assistants. As part of this capstone experience designed for psychology majors, students will develop items as part of a professional portfolio as preparation for employment or graduate work. This course counts toward a psychology major. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each), and PSYCH 282, 60 earned credit hours, and permission of the instructor.	LEC	3	3
PSYCH	342	THEORY PRAC ACAD 2	Provides students who have completed PSYCH 441 - Theories and Practice of Academic Psychology an opportunity to continue to develop their academic and professional skills and engage in leadership activities. This course is an elective and is offered when there is student interest and available positions. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each), and PSYCH 282, PSYCH 441, 60 earned credit hours, and permission of the instructor.	LEC	3	3
PSYCH	350	PSYCHOLGY OF GENDER	1Examines the theoretical and research issues in psychological experiences of males and females. Views gender role development and implications for the daily lives of men and women from historical, biological, psychoanalytic, learning, sociological and anthropological perspectives. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C, or consent of the instructor.	LEC	3	3
PSYCH	360	COGNITIVE PSYCHOLOGY	Studies cognition in humans. Research and theory related to human use of attention, perception, memory, language and problem solving are central topics of study. Other topics may include creativity, reasoning, and decision-making. Traditional research approaches to understanding human thinking, as well as neuroscientific approaches, are presented. Counts toward the Psychology major. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C, PSYCH.282.	LEC	3	3
PSYCH	375	PSY OF LEARNING	Examines the theoretical and experimental bases of learning in animal and human behavior. The course focuses on basic principles of classical conditioning and operant conditioning. Psychology of Learning is offered for major. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each) and PSYCH 282.	LEC	3	3
PSYCH	401	HISTORY OF PSYCHOL	Examines the history of psychology. Places the discipline of psychology in historical context in relation to the philosophical and scientific underpinnings of the field, as well as in relation to social and cultural influences on the development of the discipline. Reviews historical trends in research questions, methodologies, and explanations. Discusses major figures in the history of the field. This course counts toward the Psychology major. Prerequisites: PSYCH 101, PSYCH 160 and PSYCH 281 with a minimum grade of C in each; PSYCH 282; and successful completion of at least one of the following courses: PSYCH 335, 336, 337, 360, 375 and 380.	LEC	3	3

PSYCH	406	PSYCHOLOGY SEMINAR	Provides for an advanced consideration of significant topics in psychology. Requires in-depth analysis and discussions of current research. This course may be taken once to fulfill a requirement for the psychology major, and may be taken again with a different topic as an elective. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (all with a minimum grade of C), PSYCH 282; each specific seminar may have additional prerequisites depending on the topic.	SEM	3	3
PSYCH	436	THEORIES PERSONALITY	Conveys to students a basic understanding of personality theory as a scientifically defensible model of human functioning as well as a philosophical statement regarding human nature. It will engage students in a critical study of holistic theories of personality, including psychodynamic, trait, biological, cognitive, humanistic, existential/phenomenological, and cross-cultural perspectives. There will be an emphasis placed on the healthy, adaptive personality. This course is designed for psychology majors. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (with a minimum of C in each), and PSYCH 282.	LEC	3	3
PSYCH	439	CLINICAL PSYCHOLOGY	Surveys clinical psychology and the role of the clinical psychologist in community and hospital mental health programs, clinical assessment and diagnosis. Examines concepts in and models of psychotherapy. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (with a min grade of C in each), PSYCH 282 and either PSYCH.335, PSYCH 336 or PSYCH.337.	LEC	3	3
PSYCH	466	INDEPEND STUDY PSYCH	Provides for the study of a topic via review and research of technical psychological literature and/or empirical manipulation of variables in the field or laboratory under supervision of a psychology faculty member. Successful completion includes a written paper. Independent Study in Psychology is offered for majors. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (with minimum of C in each), PSYCH 282, and consent of the instructor, the department and approval of the dean.	IND	3	3
PSYCH	497	PSYCHOLOGY PRACTICUM	Applies psychological knowledge through study, observation, and practice in a community or university setting. Provides experience in a work setting in the field. Processing experiences through class discussions, writing assignments, and interactions with field supervisor. This course counts toward the psychology major and is one of the department's capstone experiences, aimed at upper-level students. Forty hours must be completed at placement site per credit hour during the course of the semester, including a weekly meeting with the site supervisor or their designee. Weekly 90-minute class meeting with faculty supervisor and peers in small groups. Prerequisites: 90 credit hours and completion of PSYCH.101, PSYCH.160, PSYCH.281 (minimum grade of C in each), PSYCH.282 and consent of the instructor.	SUP	3	15
READING	540	INTRO TCHG READ	Focuses on components of a balanced literacy program; designed to develop a knowledge base and instructional competence with literacy instruction for inclusive classrooms. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/Standard Aligned System SAS. May be offered in traditional and distance education formats.	LEC	3	3
READING	541	RDG ASSMT & INTERVEN	Focuses on informal and formal assessment techniques with an emphasis on using assessment to design appropriate intervention programs and techniques; topics include miscue analysis, informal reading inventories, and standardized testing. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. May be offered in traditional and distance education formats.	LEC	3	3

READING	551	EARLY LIT LEARNING	This course provides an in-depth examination of reading and writing development from birth to early literacy learning. This course is based on the combination of the scientifically-based reading research approach to literacy instruction as well as the emergent literacy perspective, which creates a blended, balanced approach to language and literacy teaching and learning. Research literature will be reviewed as it pertains to children's literacy development and best practice balanced literacy instruction. Candidates will develop instruction based on the foundation of reading, which includes oral language, phonemic and phonological awareness, as well as alphabet knowledge and phonics, vocabulary, and comprehension. In addition, students will learn and plan for guided reading and writing. This course may be offered via distance education or in the traditional classroom setting. Prerequisite: Graduate Standing.	LEC	3	3
RUSSIAN	101	RUSSIAN 1		LEC	3	3
SECED	351	TCHG COMMUN SEC SCH	Prerequisite: Approved BSED Major.	LEC	3	3
SECED	355	TCHG SOC STUDIES SEC	Prerequisites: Approved BSED Major	SEM	3	3
SECED	453	TEACHING SCI SEC	Theory, research, trends, issues and techniques in the teaching of science at the middle and high school levels. This course focuses on the teaching and preparing a science curriculum for individuals to be certified in physics, chemistry, biology, earth and space science or general science. Three hours lecture per week. Prerequisite: Approved as BSED Major.	LEC	3	3
SECED	513	ADM LEADERSHIP IN ED	Focuses on theories of educational leadership; models of special education inclusionary practices; the role of the administrator as an instructional leader; and school effectiveness, accountability & improvement. The course is designed to help candidates meet the PDE requirements of "an instructional leader who focuses on teaching and learning." Three hours lecture per week.	LEC	3	3
SECED	530	FOUND TCHG	Introduces students to the teaching process. Diverse instructional strategies and techniques, methodologies, and approaches are explored. Topics include: (1) the manner in which personal characteristics, experience and preparation, context in teaching, the changes in society, and student diversity influence how we teach, (2) developing instructional objectives, sequencing learning activities, and applying various taxonomies while conducting microteaching lessons, and (3) discipline strategies, questioning techniques, differentiated learning activities, and mastery teaching. Class term project includes a research paper on alternate teaching methods, a unit plan, and evaluative instruments. Three hours lecture per week.	LEC	3	3
SECED	597	GRADUATE PRACTICUM	This is a six-credit, 16 week student teaching experience that is part of the secondary certification track of the curriculum and instruction master's program. It includes all of the required INTASC standards and the framework for teaching and learning now required by both the National Council of Accreditation of Teacher and the Pennsylvania Department of Education. Required for teacher certification.	FLD	6	6
SOC	211	PRIN SOCIOLOGY	Introduces the basic concepts, perspectives, theories, and methods in sociology. Required of all sociology majors and minors. Multiple sections offered every fall and spring semester. This course earns three GEPs toward Goal 6 Social Sciences in general education. Three hours of lecture per week. Open to all students. Prerequisites: None.	LEC	3	3

SOC	213	CONT SOCIAL PROBS	Defines what constitutes a social problem and examines the negative impacts of racism, poverty, sexism, crime and other social problems in contemporary American society. This class will be offered at least one time per year. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week.	LEC	3	3
SOC	215	RACIAL & ETHNIC MIN	Provides an introduction to the sociological study of racial and ethnic minority groups and inter-group relations, particularly between minority and dominant groups. Covers concepts, theories and evidence for understanding the experiences of racial and ethnic minority groups and covers the history and current status of selected minority groups in the United States. Serves as a "Specialized Course" counting toward the major in Sociology, and counts toward the Sociology minor. Offered every fall and spring semester. Open to all students meeting the prerequisite. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: SOC.211. Three hours lecture per week.	LEC	3	3
SOC	217	SOCIOLOGY OF SPORTS	Examines and critically assesses the role of sports in American Society from a sociological standpoint. Specific attention is paid to the influences of race, class and gender upon sports. The violent, commercialized, corrupt and deviant dimensions of sports are also explored. This class is geared towards anyone with an interest in learning more about sports and human behavior. This class counts for three General Education Points in Goal 6 - Social Sciences. Prerequisites: None.	LEC	3	3
SOC	231	MARRIAGE & FAMILY	Introduces marriage and family as a social institution and how other social institutions and social structure affect marriage and family. This course also introduces how marriage and family affect other social institutions. This course covers diverse processes that form a family and diverse types of family and relating issues across different time periods and regions in the world. This course counts as a lower level elective in the sociology major and is an elective course for the Gerontology minor and Gender Studies minor. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None.	LEC	3	3
SOC	255	RES METHODS SOC INQ	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
SOC	260	BASIC SOC 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

SOC	275	SOCIOLOGICAL THEORY	Examines classical social theory that significantly impacted the development of sociology as an academic discipline. Key figures like Emile Durkheim, Karl Marx, and Max Weber are studied closely, but others may receive attention as well. Explores the value of classical theories for illuminating aspects of modernization and contemporary social life. Shows the influence of classical theories on contemporary perspectives prominent in sociology. Typically taught with a mixture of lecture and discussion of primary source readings. Required for sociology majors but open to others interested in sociology that have taken SOC.211. Offered every fall and spring semester. Three hours lecture per week.	LEC	3	3
SOC	318	SOC STRATIFICATION	Examines the class structure of contemporary American society. Considers major theories of social class. Emphasis is on helping students recognize their own class background by primary assignments on topics such as sex roles, socialization, and family mobility that enable them to apply key concepts to their own biography. Mainly lecture but frequent discussions. Taught at least once per academic year. Three hours lecture per week. Prerequisites: SOC.211 and SOC.275 or consent of the instructor.	LEC	3	3
SOC	320	SOCIOLOGY OF GENDER	Introduces students to sociological theory and research surrounding gender. The course specifically addresses the development of gender identity, the ways in which gender influences social interaction, and the role of gender in social stratification. Class time typically includes a mix of lecture, discussion, and/or in-class exercises. The course is an elective for sociology majors and gender studies minors and is appropriate for students from a range of disciplines. Offered approximately once every 3 semesters. Prerequisites: SOC.211 and SOC.275 or consent of instructor.	LEC	3	3
SOC	345	MEDICAL SOCIOLOGY	Facilitates student's ability to understand, analyze and evaluate sociological factors in relation to illness, medical behavior and health care systems. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOC.211 or consent of instructor.	LEC	3	3
SOC	443	SOC DEVIANT BEHAVIOR	Assesses the process of creating deviance in society and consequences for various types of behavior construed as deviant. Class is lecture with much discussion around many topics. Students will become conversant in various theories and types of deviance that are present in contemporary society. Offered at least once per academic year. Three hours lecture per week. Prerequisite: SOC.211 and SOC.275 or consent of instructor.	LEC	3	3
SOC	474	ENVIRONMENTAL SOC	Examines some major human problems that lead to environmental deterioration, particularly water, air and noise pollution, energy and other resource depletion and increasing population density. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOC.211.	LEC	3	3
SOC	478	SOCIOLOGY OF WORK	Presents a sociological examination of work and the milieu of the worker. Studies formal and informal work organizations, job satisfaction and dissatisfaction, structure and organization of industrial and post-industrial societies and relationship between work organizations within communities and society. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOC.211.	LEC	3	3

SOC	496	INTERNSHIP PROGRAM	Provides students with supervised practice at an approved site. The internship exposes students to responsibilities, skills and activities in a variety of sociology related work environments. It further provides students with an opportunity to apply sociological knowledge and skills learned in the classroom. Prerequisites: 18 hours of coursework in sociology including SOC.211, SOC.255, SOC.260, and SOC.275, or consent of instructor. This is a variable 3-6 credits class. It is offered Pass/Fail only. Forty hours of on-site work required for each credit earned. Offered every fall, spring, and summer.	SUP	3	6
SOCWORK	133	INTRO SOC WORK & WEL	Provides students with an overview of the principles and concepts of the social welfare system in the United States as well as a survey of the social work profession. This foundational class has no prerequisites. It is required for students majoring in Social Work and is available to all students. Three hours of lecture per week. Offered each fall and spring semester. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None.	LEC	3	3
SOCWORK	221	HUM BEHAV IN SOC EVR	Provides an understanding of how economic, environmental, and social forces interface with biological, cultural, psychological, and social characteristics of human beings alone and in families, groups, communities, and organizations. Explores the cultures, historical experience, and demographics of various oppressed groups in the United States over the life span. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 (or permission of instructor).	LEC	3	3
SOCWORK	250	RESEARCH SOC WORK	Prepares the BSW practitioner to understand the research process and to critique research. The student will be exposed to a variety of social research processes and methods, including single subject research, qualitative and quantitative methodologies, and program evaluation. Emphasis on understanding and applying social work values to research, on methods for evaluation of one's own practice, and the interface of research with successful social work practice. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 - Intro to Social Work.	LEC	3	3
SOCWORK	297	INTRO PRACT EXP SWK	The primary goal of this course is to initiate the preparation of the baccalaureate generalist social worker with a foundation of social work knowledge, values, ethics and skills. The beginning integration of ecological systems theory into generalist social work practice occurs in this course. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 (with grade of C or above). Grade of C or above required to apply to the Social Work major.	LEC	3	3
SOCWORK	310	INTERVEN IN CHEM DEP	Highlights the presence of alcohol and other drug (AOD) use disorders as an influence on problems encountered across many practice areas, including but not limited to: children and youth, criminal justice, mental health, and diverse populations. Policy issues related to AOD will also be explored. Introduces evidence-based screening tools for detecting AOD risk factors to students, who then practice them in a variety of active learning exercises. Provides students with a set of basic practice guidelines for working effectively with individuals who reflect some level of AOD abuse or dependence. This course is designed for both undergraduate and graduate students. Prerequisites undergraduate: CRIMJUST 101 or SOC.211 or SOCWORK.133.	LEC	3	3

SOCWORK	334	SOC WRK PRAC:IND/FAM	Examines the knowledge, values, ethics and skills that comprise the core of professional generalist social work practice with client systems of various sizes. The focus includes the philosophical foundation of social work, self-awareness, values and ethics of the helping person, and the nature of professional relationship/client-worker partnership in the context of practice and human diverse populations. The complexity of social work practice from a systems/ecological perspective that is strengths based is presented. Students also acquire knowledge about the stages, activities and skills of problem solving practice, engagement, assessment, intervention, evaluation, and termination. Content on human behavior social environment, policy, and research is integrated in the course. This class will be taught every semester. Prerequisites: SOCWORK 297.	LEC	3	3
SOCWORK	450	SOC WORK PRAC:SM GRP	Focuses on developing group facilitators who possess an understanding of group theory and group dynamics as well as effective leadership skills. The content encompasses both task and treatment groups utilizing strengths based framework. Social work group facilitation is taught utilizing empirically-based theories and interventions, teaching students to engage, assess, intervene, and evaluate with small groups. Opportunities to apply social work knowledge, values, ethics, and skills to practice settings and situations with small groups will be provided. Students learn how to use research evidence to inform their practice and evaluate the effectiveness of group interventions. An emphasis is placed on understanding, affirming, respecting, and working with groups with diverse backgrounds. This class is typically taught twice a year.	LEC	3	3
SOCWORK	452	SOC WRK PRAC:ORG/COM	Examines the knowledge, values, ethics, and skills that comprise the core of professional generalist social work practice with the organizations and communities. The focus includes the philosophical foundation of social work, self awareness, values and ethics of the helping person, and the nature of professional relationship/client-worker partnership. The complexity of social work practice from a systems/ecological perspective that is strengths based is presented. Students also acquire knowledge about the stages, activities and skills of problem solving practice, engagement, assessment, intervention, evaluation, and termination. This class will be taught every semester. Prerequisites: SOCWORK 334 - Individuals and Families, SOCWORK 240 - Statistics for Social Work, SOCWORK 250 - Research Methods for Generalist Social Work Practice.	LEC	3	3
SOCWORK	453	SOC WEL POL & SERV	Examines various aspects of social welfare policy and services. The focus of this course includes the history, politics, economics, culture, and ethics of social policy as it relates to the social work profession and the social service delivery system. Utilizing critical thinking skills, students will engage in policy analysis to explore the reciprocal interconnectedness of policy, the social service delivery system and social work practice. Based on the information obtained through the exploration of a social issue, concern, policy or need, students will formulate a policy proposal and develop a method by which to advocate for the social well-being of others through their policy creation. Additionally, students will be asked to consider how to evaluate the implementation and outcome of their proposed policy. This class will typically be taught every semester. Prerequisites: SOCWORK 334 - Individuals and Families and POLISCI 120 - United States Government.	LEC	3	3
SOCWORK	497	SOCIAL WORK INTERN	Provides an educationally directed internship and is taken concurrently with SOCWORK 498 Integrative Senior Seminar under direct supervision of a professional social worker. In field education, students will engage in tasks and assignments that reflect a higher level of mastery of knowledge and increased independence in functioning in a chosen social service agency. This course provides skill development in direct engagement, assessment, intervention, evaluation and advocacy strategies for effective and ethical generalist social work practice with individuals, families, groups, communities and organizations. This class will be taught every semester.	SUP	10	12

SOCWORK	498	INT SENIOR SEM SWK	Integrates information from the overall social work curriculum in preparation for future work. This course processes and integrates theory and practice within the field education experience and incorporates practice-relevant research and assessment of student's own practice and interventions. The course will serve as additional support for students who may experience difficulty in field and who require additional supervision to comply with CSWE accreditation requirements. The course provides opportunities for students to develop and strengthen professional skills of collaboration, consultation, and problem solving. Workshops will be used to clarify expectations in the field and will provide a forum for student discussion and the reception of feedback from peers and faculty members. This class will be taught every semester and is taken concurrently with SOCWORK 497, Field Education. Prerequisites: SOCWORK 240, SOCWORK 250, SOCWORK 334, SOCWORK 450, SOCWORK 452 and SOCWORK 453	SEM	3	3
SPANISH	101	SPANISH 1	Initiates students' development of the four language skills (speaking, listening, reading, writing) required to use the Spanish language in a communicative context. Anticipated proficiency upon successful completion of the course is the Novice-Mid sub-level (based upon the American Council on the Teaching of Foreign Languages). Introduces students to features of Hispanic culture that are associated with the targeted communicative activities. Open to all students. Offered at least one time per year. May be offered in traditional and distance education formats. Three hours lecture per week.	LEC	3	3
SPANISH	102	SPANISH 2	Develops further the four principle language skills (speaking, listening, reading, and writing) to the level of basic second-language proficiency (the Novice-High proficiency level according to the guidelines of the American Council for the Teaching of Foreign Languages) and enhances students' knowledge of the cultures of the Spanish-speaking world. All course content is presented in communicative, culturally contextualized activities. Appropriate for students with one or two years of high school Spanish. Offered every semester. Counts toward the Spanish Minor. Offered as both traditional and distance education. Prerequisite: SPANISH.101 or equivalent proficiency level. Three hours lecture per week. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education.	LEC	3	3
SPANISH	203	SPANISH 3	Focuses upon the development of each of the four principal second language proficiencies (speaking, listening, writing, reading) at the Intermediate level of proficiency, according to the American Council on the Teaching of Foreign Languages. Also focuses on the development of an appreciation of noteworthy literary and artistic works of Latin America. Appropriate for all students who have satisfied the indicated prerequisites (Completion of Spanish 102 - Spanish 2 or placement via the Spanish Language Placement Test). Offered each semester.	LEC	3	3
SPANISH	204	SPANISH 4	Continues the development of the four principal second language proficiencies (speaking, listening, writing, reading) at the Intermediate level of proficiency according to the guidelines of the American Council on the Teaching of Foreign Languages. Also focuses on the development of an appreciation of noteworthy literary and artistic works of Spain. Appropriate for all students who have satisfied the indicated prerequisites - completion of Spanish 3 or placement via the Spanish Language Placement Test. Offered each semester.	LEC	3	3
SPANISH	206	STRUCT SPAN LANG	Study of Spanish grammar and syntax through applied exercises and introduction to Spanish morphology. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. Prerequisite: SPANISH.204 or equivalent.	LEC	3	3

SPANISH	207	SPAN CONV COMP 1	Development of speaking and writing skills at the intermediate level; prepares students for transition to upper level language courses. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. Prerequisite: SPANISH.204 or equivalent.	LEC	3	3
SPANISH	212	SPAN AM CULT & CIV	Presents the history of Spanish American culture and civilization from its beginnings to the present, with emphasis on art, literature, ideas, historical events, and cultural exchanges. Intended for students seeking an introductory course on Spanish American culture. Students gain insights in the cultural history of Spanish America, including geography, society, politics, philosophy, art, literature, and the sciences. Course is taught in English through lectures, projects, discussions, readings, and audio-visual media. SPANISH.212 partially fulfills the requirements for the Spanish Minor. Course is offered in alternating semesters. 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.	LEC	3	3
SPANISH	305	SPAN APP PHONE PRON	Develops ability to communicate effectively in spoken Spanish. Provides a detailed study of Spanish sound and intonation patterns through group and individual practice. Attends to individual pronunciation problems. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Prerequisite: SPANISH.206 or equivalent.	LEC	3	3
SPANISH	306	CONVERS & COMP 2	Continued development of speaking and writing skills (see SPANISH.207); required before advancing to advanced language courses. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. Prerequisite: SPANISH.206 and SPANISH.207, or consent of instructor.	LEC	3	3
SPANISH	390	INTERNSHIP IN SPAN	Students apply the theory learned in the classroom to situations occurring in the workplace. Careful planning with the department's internship coordinator enables the students to schedule these experiences to complement their academic program. Participation in the university's internship adds an important dimension to student's educational experience and future career plans. Prerequisites: SPANISH.204 or Permission of Instructor.	SUP	3	9
SPANISH	403	ADV STRUCT & COMP	Study of advanced syntax and structure with application in composition. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: SPANISH.306 or permission of the instructor.	LEC	3	3
SPANISH	420	HISPANIC LIT	Instructs students with regard to the reading of selected works of literature from Spain and Spanish America, the authors of those works, the literary genres and literary movements to which they pertain, and the socio-cultural milieu in which they were composed. This course is approved as a Diversity General Education Course. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: SPANISH.306 and SPANISH.350.	LEC	3	3
SPANISH	421	LATIN AMER LIT	Survey of Spanish American literature from the Colonial Period to the present, including historic and socio-cultural contexts. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: SPANISH.306 or permission of the instructor.	LEC	3	3

SPECED	101	INTRO INDIV W/EXCEPT	Reviews all major areas of exceptionality (visually impairments, intellectual disability, hearing impairments, communication disorders, behavior disorders, learning disabilities, etc.) and acquaints the student with social, sociological, psychological, medical, historical, legal, economic and professional aspects of these conditions. Reviews current research and the latest techniques for facilitating meaningful interactions with individuals with disabilities. This course earns two GEPs towards Goal 4 Cultures and Diversity and one GEP towards Goal 10 Responsible Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None.	LEC	3	3
SPECED	202	TECH INDIV W/DISAB	Introduces students to assistive technology and the existing and emerging technologies that are being used by various professionals working with individuals that have disabilities. The focus of this course is to prepare students for pk-12 Special Education Teacher Certification. Students use computers, assistive devices, educational software and other technologies utilized as instructional tools, administrative tools, and environmental interfaces. This course earns one GEP towards Goal 2 Information Literacy and one GEP towards Goal 4 Cultures and Diversity in general education. Three hours lecture per week. Prerequisites: None.	LEC	3	3
SPECED	206	INTRO EARLY INTERVEN	An overview of the field of early intervention (EI), including historical perspectives, philosophies of EI, influences of disabilities on the development of young children, early intervention models and intervention strategies. Three hours lecture per week.	LEC	3	3
SPECED	275	LINKING ASSESS/INSTR	Provides teacher candidates with a comprehensive overview of the skills, processes, and research-based interventions for linking assessment and instruction in inclusive settings for students with disabilities. The academic core areas to be addressed in this course will include literacy, math, and writing in P-12 setting. This course earns one GEP toward Goal 2 Information Literacy, one GEP toward Goal 3 Quantitative Reasoning and one GEP toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: SPECED.101.	LEC	3	3
SPECED	358	METH INSTR INDIV DIS	This course deals with the development of evidenced based skills in effective instructional strategies for students with exceptionalities, creating positive classroom learning environments, and teacher-candidate development of effective collaboration and communication skills. Three hours lecture per week. Prerequisite: SPECED.101.	LEC	3	3
SPECED	375	INDIVIDUAL PROJECT	Project planned according to interests and needs of the individual student, in any of the following suggested areas: library research, curriculum study or internship in special aspects of educational programs.	IND	1	3
SPECED	417	BEHAVIOR INTER/SUP	Develops skills and competencies in applying the principles of human behavior, group management procedures, and design/implementation of person (student) centered behavior support plans as delineated under the Individuals with Disabilities Act (IDEA) and the Americans with Disabilities Act (ADA). This course examines the relationship among research, policy and practice as it pertains to prevention and early intervention with group and individual problems at school and community levels. Three hours lecture per week. Prerequisites: SPECED.358; Admission to Teacher Education.	LEC	3	3

SPECED	430	INSTR PRAC MOD/SEV	This course presents an overview of the nature and needs of educating individuals with moderate and severe disabilities. Models, theories, and effective strategies for individual assessment and planning, cognitive, functional and social development in a standard aligned system, and research-based instructional methods are provided. The content focuses on the dynamics of including diverse learners in the home, school, general education classroom and community. This course provides students with an opportunity to apply knowledge through a field-based experience. Three hours lecture per week. Prerequisites: SPECED.358.	LEC	3	3
SPECED	433	LIT INSTR ST W/DIS	Provides preservice teachers with a comprehensive overview of skills, assessment and strategies for teaching listening, speaking, reading and written expression. Students will prepare a portfolio of resources and best practices for teaching language arts to students with special needs. Three credits completed in general reading instruction; Admission to Teacher Education. Three hours lecture per week.	LEC	3	3
SPECED	449	ASSESS AND PLAN	Develops skills and competencies in using formal and informal assessment tools and procedures that are in compliance with professional standards of ethical practice. Covers strategies and methods for gathering information about the learner prior to, during, and after instruction to maximize instructional effectiveness. Presents strategies and formats for synthesizing assessment results and developing evaluation reports and IEP goals. Three hours lecture per week. Prerequisites: SPECED.275 and Admission to Teacher Education.	LEC	3	3
SPECED	450	INSTR PRAC MILD PK-8	This course focuses on the recognition and acquisition of learning characteristics and theory, effective teaching and classroom management strategies, as well as the understanding of collaborative roles and responsibilities of professionals in identifying, assessing and providing services to meet the instructional needs of students with disabilities. Three hours lecture per week. Prerequisites: SPECED.358 and Admission to Teacher Education.	LEC	3	3
SPECED	451	SEC METH MILD DISAB	Prepares future educators to meet the diverse needs of students with mild disabilities in a secondary instructional setting. Management strategies, current theories of best practice, and a variety of research-based methods of instruction are presented and explored. Inclusionary issues, such as, collaborative roles of educational professionals, paraprofessional management, and administrative concerns within secondary educational settings are addressed. Strategies for differentiating instruction are analyzed for application. In addition, appropriate interventions and services that meet the needs of adolescents with mild disabilities are identified. Prerequisites: SPECED.358, admission to Teacher Education or related.	LEC	3	3
SPECED	461	ST SEMINAR	Presents instruction in the development of effective teaching individuals with exceptionalities. Focuses on problems in the education of this population. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the individual with exceptionalities in learning experiences at school. Three hours lecture per week. Prerequisite: Concurrent with SPECED.488/499.	SEM	3	3
SPECED	488	STUDENT TEACHING I	The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.461; student teaching seminar.	FLD	6	6

SPECED	489	STUDENT TEACHING II	The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.461; student teaching seminar.	FLD	6	6
SPECED	506	INTRO EARLY INTERVEN	Presents an overview of the field of early intervention, including historical perspectives, philosophies of early intervention, influences of disabilities on the development of young children and early intervention models. Three hours lecture per week.	LEC	3	3
SPECED	530	INSTR PRAC MOD/SEV	Presents an overview of the nature and needs of educating individuals with moderate and severe disabilities. Models, theories, and effective strategies for individual assessment and planning, cognitive, functional and social development in a standard aligned system, and research-based instructional methods are provided. The content focuses on the dynamics of including diverse learners in the home, school, general education classroom and community. This course provides students with an opportunity to apply knowledge through a field-based experience. Three hours lecture per week. Prerequisites: SPECED.358. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
SPECED	533	LIT INSTR ST W/DIS	Literacy Instruction for Students with Disabilities will provide teacher candidates with comprehensive, evidence-based literacy strategies and methodologies in alignment with Pennsylvania Standards-Based Instructional System. Emphasis will be on teaching reading, writing, listening and speaking. Students will examine and utilize systematic approaches for teaching literacy to students with disabilities. Students will prepare a portfolio of resources and evidence-based practices. Admission to Teacher Education. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
SPECED	544	ACAD ASSESS INSTRU	Develops skills and competencies in using formal and informal assessment tools and procedures that are in compliance with professional standards of ethical practice. Covers strategies and methods for gathering information about the learner prior to, during, and after instruction to maximize instructional effectiveness. Presents strategies and formats for synthesizing assessment results and developing evaluation reports and IEPs. Three hours lecture per week. Prerequisites: SPECED.557 and Admission to Graduate Program.	LEC	3	3
SPECED	550	INSTR PRAC MILD PK-8	This course focuses on the recognition and acquisition of learning characteristics and theory, effective teaching and classroom management strategies, as well as the understanding of collaborative roles and responsibilities of professionals in identifying, assessing and providing services to meet the instructional needs of students with disabilities. Prerequisites: Admission to Teacher Education. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	LEC	3	3
SPECED	551	INSTR PRAC MILD 7 - 12	Prepares future educators to meet the diverse needs of students with mild disabilities in a secondary instructional setting. Management strategies, current theories of best practice, and a variety of research-based methods of instruction are presented and explored. Inclusionary issues, such as, collaborative roles of educational professionals, paraprofessional management, and administrative concerns within secondary educational settings are addressed. Strategies for differentiating instruction are analyzed for application. In addition, appropriate interventions and services that meet the needs of adolescents with mild disabilities are identified. Prerequisites: SPECED.558; Admission to Teacher Education or related.	LEC	3	3

SPECED	552	PROJECT IN SP ED	Designed to further a student's own interest and competency in an area of special education for the individual with exceptionalities. Library research or individual project involving service to the individual with exceptionalities may be agreed upon and conducted under supervision of a faculty member. Three hours lecture per week.	IND	3	3
SPECED	558	METH OF INSTR FOR IC	Provides teacher candidates with evidenced based skills for developing effective instructional strategies for students with disabilities, creating positive classroom learning environments, and establishing effective collaboration and communication within inclusive classrooms. Prerequisites: Admission to Graduate School. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. Three hours lecture per week.	LEC	3	3
SPECED	559	SEMINAR IN SPEC EDUC		LEC	3	3
SPECED	561	ST SEMINAR	Presents instruction in the development of effective teaching individuals with exceptionalities. Focuses on problems in the education of this population. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the individual with exceptionalities in learning experiences at school. Three hours lecture per week. Prerequisite: Concurrent with SPECED.509.	SEM	3	3
SPECED	565	SPEC ED RESEARCH I	Prepares students to read, understand, and evaluate statistical and behavioral research in the field of special education. The course includes the study of statistical terms, an introduction to the type of research questions that can be answered by various statistical procedures, a knowledge of the basic steps of hypothesis testing, analysis and comparison of research designs, and the analysis of the utility of research. This course supports graduate students in the investigation of a topic that informs the practice of special educators. Prerequisites: Admission to Graduate Program.	LEC	3	3
SPECED	575	ISSUES IN SPECIAL ED	Provides graduate students with a forum to review and analyze current trends and issues (social, medical, educational, professional) that pertain to the education and personal development of all learners. This seminar will help graduate students to understand multiple perspectives on issues in special education and to critically analyze the research in this field to provide convergence in addressing policies and practices. The content of the course will change as current trends and issues emerge. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: Admission to Graduate Program.	LEC	3	3
SPECED	588	STUDENT TEACHING I	The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.561; Student Teaching Seminar..	FLD	5	5
SPECED	589	STUDENT TEACHING II	The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.561; Student Teaching Seminar.	FLD	5	5

SPECED	589	STUDENT TEACHING II	The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.561; Student Teaching Seminar.	FLD	5	5
SPECED	595	INTERNSHIP	Internship in special education. Supervision to take place in schools or educational situations under supervision of the local supervisor and graduate faculty. This course satisfied PDE guidelines for Inclusive Classrooms/SAS.	SUP	3	6
THEATRE	100	THEATRE FORUM	Requires all tracks of the Bachelor of Arts in Theatre to attend weekly performance labs, including specialized workshops, lectures, readings, and performances. May be repeated each semester.	LAB	0	0
THEATRE	101	CAREER SEMINAR: THEA	Presents an introduction to the theater professions and to general theater practice. Individual goal-setting for participation in the major and in the profession. Required for theater majors.	LEC	1	1
THEATRE	102	INTRO THEATRE ARTS	Students explore various aspects of the theatrical process and learn tools for evaluating theatrical productions in a hands-on class. Both group and individual projects are used to introduce and deepen understanding of several theatrical disciplines (playwriting, directing, performance, design) and varied genres and styles of theatre. Students also see and critique performances on and off campus. Open to all students; required for all Theatre majors. This course earns three GEPs toward Goal 7 - Arts and Humanities in general education. Prerequisites: None.	LEC	3	3
THEATRE	103	THEATRE APPRECIATION	Students will explore the fundamental relationship between theatre and empathy; examining how theatre invites audiences to learn about other people's perspectives and actions. The course introduces the terminology, process, genres, and basic techniques of theatrical production; students will learn about a variety of theatre artists and companies. This course uses a flipped class model: in-person class meetings focus on demonstration and discussion; homework topics are explored through recorded lectures, recorded theatrical productions, readings, and videos about theatre. Attendance at live theatrical events is required. Open to students in all majors. This course earns three GEPs towards Goal 7 - Arts & Humanities in general education. Prerequisites: None.	LEC	3	3
THEATRE	108	THEATRE PRACTICUM	Involves participation in plays: Acting or technical Work. Grade awarded each semester. May be repeated. Prerequisites: None.	ACT	0	1
THEATRE	112	FUND OF ACTING	Student actors explore the terms and techniques of acting in an active, hands-on learning environment. Students perform improvised and scripted scenes and monologues, as well as other individual, paired and group acting exercises. Students see and critique acting in performances on and off-campus. Open to all students; required for all Theatre majors. This course earns three GEPs toward Goal 7 - Arts and Humanities in general education. Prerequisites: None.	LEC	3	3
THEATRE	200	VOICE & MOVEMENT	Second in a series of courses designed for performance training. Explores the concepts of kinesthetic awareness, proper use of the voice for the state and vocal interpretation of text. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3

THEATRE	270	FUND THEATRE DESIGN	An introduction to the elements and design for theatrical production, including scenery, costumes, make-up, lighting and sound. First in a series of courses designed for training in design technology for theater. For theater majors and other interested students. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
THEATRE	277	COSTUME CONSTRUCTION	Introductory studio course in the tools and techniques of producing costumes for the stage. Provides a basic working knowledge of the construction of costumes. For theater majors and other interested students. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	LEC	3	3
THEATRE	311	SCENE DESIGN	An introduction to basic movements and the methods, approaches, tools, materials and visual concepts of scene design. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week.	SEM	3	3
THEATRE	340	SCRIPTWRITING	Studies dramatic structure, types and styles of drama and the activities of professional playwrights. Provides students opportunities to write scripts for the stage and to explore them through exercises and performed readings of the scripts. Students also read and analyze plays, as well as see and critique performances on and/or off-campus. Open to all students who have passed prerequisites. May be offered in traditional and distance education formats. Prerequisites: THEATRE 102 (preferred) or THEATRE 103 or THEATRE 112, or permission of instructor.	LEC	3	3
THEATRE	401	SEM: THEATRE LIFE	Preparation for the move from college to the professional theater environment. Portfolio presentation. Evaluation of professional goals to the theater. Required for theater majors. Prerequisite: THEATRE.101, senior standing, permission of the instructor.	SEM	2	2
THEATRE	411	PLAY DIRECTING	Explores the principles and techniques of directing and the role of the play director in the collaborative process of pre-production, auditions, rehearsals and performance. Provides students opportunities to develop directing skills through in-class exercises and a culminating project in which students stage short plays for an audience. Students also see and critique performances on and off-campus. Open to all students who have successfully completed the prerequisites. Required for all theatre majors with a Performance Emphasis. Prerequisites: THEATRE 112 - Fundamentals of Acting, THEATRE 202 - Script Analysis, and THEATRE 270 - Fundamentals of Design, or permission of the instructor.	LEC	3	3
THEATRE	416	MODERN THEATRE	Continues the study of theater history from 19th century through the theater of today. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: THEATRE.215 or consent of instructor. Three hours lecture per week.	LEC	3	3
THEATRE	490	SP SEMINAR THEATRE	Provides for a concentrated study of an individual artist, a period or a movement in theater. Offered on demand. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: 9 semester hours in theater or consent of the instructor. Three hours lecture per week.	SEM	3	3

THEATRE	491	SEM IN TECH & DESIGN	Provides opportunities for advanced studies and application of special topics as in theatrical design and technical theatre. Examples might include advanced studies in Lighting, Costume or Scene Design or Technical Theater Management. With division approval, this course may substitute for one-semester enrollment in Theatre 108, Theatre Practicum. This course counts as a Group A, Humanities and The Arts General Education Requirements. May be repeated for credit without limit. Concurrent registration in multiple sections within a semester permitted. Prerequisites: THEATRE.270 and one other design or technical course and permission of the instructor. Three hours lecture per week.	SEM	3	3
THEATRE	492	SEM IN PERFORMANCE	Provides opportunities for advance studies and application of special topics as selected by the instructor. Examples might include advanced studies in audition techniques, acting styles or performance theory. This course counts as a Group A, Humanities and The Arts General Education Requirements. May be repeated for credit without limit. Concurrent registration in multiple sections within a semester permitted. Prerequisites: THEATRE.112 and THEATRE.312 and permission of the instructor. Three hours lecture per week.	SEM	3	3