LIST OF COURSES AND DESCRIPTIONS

CART 101	Art Foundations I	3 Credits
Studio problems in basic design explore	the elements and principles of applied design theory.	
CART 102	Art Foundations II	3 Credits
Studio problems that cover the properti	es and effects of light and color. Exploration of basic color organization	ons and principles.
CART 150	Art Appreciation	3 Credits
	nding and appreciation of the art forms in the world. Lectures, dis e, architecture and other forms of art from different cultures.	cussions and visual aids are
CART 201	Drawing I	3 Credits
Introduction to perceptual drawing skill	ls. Focus is on the translation of three-dimensional forms to a two-dir	nensional surface.
CART 202	Drawing II	3 Credits
Continuation of CART 201. Emphasizes CART 201.	perceptual drawing skills. Students are also introduced to a variet	y of materials. <i>Prerequisite</i> :
CART 217	Printmaking I	3 Credits
	resses creativity, experimentation, and development of skill and and CART 102 or permission of instructor.	l craftsmanship in printing
CART 275	Photography I	3 Credits
	with little prior knowledge of photography. Students are introduc requirement of the course is a camera with a manually adjustable	
CART 277	Computer Imaging Basics	3 Credits
An introduction to Adobe Illustrator and required.	d Adobe Photoshop that explores techniques for basic digital design.	Academic advisor's approval
CART 301	Art Direction/Design I	3 Credits
	s, including a study of typefaces and letter spacing, composition, a ls. Prerequisites : CART 101, CART 102, and CART 277 or permission	
CART 302	Art Direction/Design II	3 Credits
	ation, including generation of visual symbols, graphic simplificatior ther development of technical skills. <i>Prerequisite</i> : CART 301 or perm	
CART 303	Advanced Drawing	3 Credits
Investigation of advanced drawing tech CART 202 or permission of instructor.	niques with an emphasis on figure drawing. <i>Prerequisites</i> : CART 10	1, CART 102, CART 201, and
CART 315	Illustration I	3 Credits
Basic illustration conceptualization. Dev CART 202 or permission of instructor.	velops students' professional illustration techniques and processes. F	Prerequisites: CART 201 and
CART 317	Printmaking II	3 Credits
Continuation of CART 217. Students int 217.	roduced to intermediate printmaking concepts. Prerequisites : CAR	T 101, CART 102, and CART
CART 375	Photography II	3 Credits
Continuation of CART 275. Students ar permission of instructor.	e required to form a personal vision through directed assignments.	. Prerequisite: CART 275 or
CART 379	Advanced Computer Imaging	3 Credits
	aging utilizing graphics software for visual communication. Prerequ Academic advisor's approval is required.	t isites : CART 101, CART 102,
CART 401	Art Direction/Design III	3 Credits
	on, and typographic hierarchy are addressed through poster, brochu requisites: CART 301 and CART 302, or permission of instructor.	re, and book design. Package
CART 402	Art Direction/Design IV	3 Credits
Synthesizes concepts learned in typog	techniques. Content includes the development of advertising campa raphy and image communication through the development of vise `302, and CART 401, or permission of instructor.	
CART 413	African Fabric Design	3 Credits
Focuses on analysis of African fabric des fabric design for fashion and commercia	signs in terms of their patterns and social functions. Emphasis is on the lart design.	he appropriate use of African

CART 444	Seminar in Contemporary Art	3 Credits
Investigates topics pertinent to the studi	o artist. Focus is on the impact of recent art history on the work of cor	ntemporary artists.
CART 451	Illustration	3 Credits
Advanced coursework in illustration bas project. <i>Prerequisite</i> : CART 315.	ed on a student research topic. The student works directly with facul	ty to guide and develop the
CART 456	Photography	3 Credits
Advanced coursework in photography b the project. Prerequisites : CART 275 and	ased on a student research topic. The student works directly with fa d CART 375.	culty to guide and develop
CART 457	Printmaking	3 Credits
Advanced coursework in printmaking b the project. <i>Prerequisites</i> : CART 217 and	ased on a student research topic. The student works directly with fa 1 CART 317.	culty to guide and develop
CART 460	Printmaking (Lithography)	3 Credits
Advanced coursework in lithographic padevelop the project. <i>Prerequisites</i> : CAR	inting based on a student research topic. The student works directl 217 and CART 317.	y with faculty to guide and
CART 462	Graphic Design	3 Credits
Advanced coursework in visual commun develop the project. <i>Prerequisites</i> : CAR	ication based on a student research topic. The student works directl 301 and CART 302.	y with faculty to guide and
CART 479	Computer Graphics	3 Credits
Advanced coursework in digital imaging the project. <i>Prerequisite</i> : CART 379.	based on a student research topic. The student works directly with fa	aculty to guide and develop
CART 488	Internship	3 Credits
On-the-job training for the work world department chair.	. Students can qualify for an internship after the freshman year. P	rerequisite: Permission of
CART 492	Senior Seminar	3 Credits
	Advertising Design art majors. Includes preparation for portfolio and organizing exhibitions. Prerequisite : Permission of department of	
CART XXX	Directed Study	3 Credits
	niques in a field of the student's special interest. Directed studies tal interest. Approval of the instructor required.	ken after completion of the
CBIO 101	Biological Science	3 Credits
	ajors. Topics covered include basic concepts of living organisms; the d the human being. Functioning and some disorders of various syste	
CBIO 111/111L	General Biology I	4 Credits
mitochondria in cell energetics; and the	les of biology, covering cells, cell organelles, and genetics. The cell su e role of the nucleus in cell division and regulation are given specia ry, concepts of molecular biology, mitosis and meiosis. Three (3) le	al emphasis. Specific topics
CBIO 111H/L & 112H/L	General Biology I & II (Science Majors)	4 Credits ea.
	ic principles of biology, covering cells, organisms and genetics. Cl areas in biology. Three (3) lecture hours and three (3) laboratory hou	
CBIO 112/112L	General Biology II	4 Credits
in biology, such as development, behav general anatomy (nervous, hormonal, m	eral biology requirement for majors. Fundamental principles, concept rior, population biology, and ecology are presented. Topics cover n uscular, circulatory, excretory systems), with emphasis on regulation a our laboratory per week. Prerequisite : CBIO 111.	nammalian physiology and
CBIO 230	Human Anatomy and Physiology I	4 Credits
and tissues, and the integumentary, ske	cs of human anatomy and physiology including anatomical terminolog eletal, muscular, nervous, endocrine, cardiovascular, lymphatic/imm ratory component includes anatomical studies using microscopy and rerequisites : CBIO 111 and CBIO 112.	une, respiratory, digestive,
CBIO 231	Human Anatomy and Physiology II	4 Credits
respiratory, digestive, urinary, and repro	emester sequence including the study of the endocrine, cardiovas ductive systems. Introduces common human disease processes. Labo d dissection and the study of physiological concepts via virtual labs	ratory component includes

CDIO 222 /2221		A Care dite	
CBIO 233/233L	Microbiology	4 Credits	
This course focuses on the study of microorganisms with emphasis on bacteria and viruses. The physiology and metabolism of bacteria, bacterial growth, metabolic regulation, genetics of bacteria, genetic resistance to antibiotics, survey of the major groups of bacteria and			
viruses, and diseases associated with bacteria and viruses are studied. Three (3) lecture hours and a three (3) hour laboratory required per week. <i>Prerequisites</i> : CBIO 111, CBIO 112 and CCHE 111.			
CBIO 251/251L	Vertebrate Anatomy and Embryology	4 Credits	
1	rative studies of the structure, functions and ontogenesis of the v		
	relopment are emphasized. Three (3) lecture hours and a three-(3) ho		
CBIO 255/255L	Invertebrate Zoology	4 Credits	
	ogy, phylogeny, and ecology of invertebrate animals are presented.		
practical anatomy and physiology of ind week. <i>Prerequisites</i> : CBIO 111 and CBIC	igenous and exotic species. Three (3) lecture hours and a three-(3) ho 112.	our laboratory required per	
CBIO 261/261L	Environmental Biology	4 Credits	
The study of living things and their impacts on each other and the environment is the focus of this course. An introduction to basic biological principles and how they relate to our environment are presented. Problems caused by human use of the natural world along with general principles of ecology, chemistry, microbiology, and public health are emphasized. Specific topics covered in the course include: life's diversity, biogeochemical cycles, biology of wastewater treatment, pests and disease vectors, environmental pollution, pesticides and human health, and environmental laws. Three (3) lecture hours and a three-hour laboratory required per week. <i>Prerequisites</i> : CBIO 111 and CBIO 112.			
CBIO 300/300L	Histological Technique	4 Credits	
	nicroscopic and ultramicroscopic anatomy of mammalian tissues and ecture hours and a four-hour laboratory required per week. Prerequ		
CBIO 312/312R	Genetics I	4 Credits	
General study of the fundamental principles of genetics, including chromosome structure, the chromosomal basis of inheritance, meiosis, Mendelian genetics, linkage, human genetics, cytogenetics, DNA replication, quantitative genetics, molecular genetics, gene function, gene regulation and bacterial genetics. Three (3) lecture hours and a two-hour recitation period required per week. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111 and CCHE 112.			
CBIO 315	Biomedical Experimentation	3 Credits	
regarding the use of human and animal	he responsible conduct of research such as conflicts of interest, responsible conduct of research subjects, handling misconduct, proper data management, research fun udies for class discussion. Prerequisites : CBIO 111 and 112.		
CBIO 331/331L	Plant Biology	4 Credits	
the structure, function diversity, ecolog	e plant kingdom, emphasizing the vascular plants are the focus of th y, and physiology of plants. The laboratory emphasizes microscopy, rs and three (3) laboratory hours required per week. Prerequisites : C	, experimentation and may	
CBIO 356/356L	Comparative Vertebrate Anatomy and Embryology	4 Credits	
This course focuses on the comparative study of the structures, functions and the ontogenesis of the vertebrates. Structural origin and mechanisms of development are stressed. Three (3) lecture hours and three (3) laboratory hours per week. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111 and CCHE 112.			
CBIO 375	Cell and Molecular Biology	3 Credits	
Study of the origin and structure of cell organelles and comparative and integrated presentation of the fundamental physiochemical mechanisms associated with the living cell. Three (3) lecture hours per week. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111 and CCHE 112.			
CBIO 390	Introduction to Biochemistry	3 Credits	
Survey of basic principles of biochemistry and molecular biology, emphasizing broad understanding of chemical and biological events in living systems. The course emphasizes the major biochemistry topics including sugars, amino acids, peptides, nucleic acids, lipids, enzymes, cofactors, vitamins, hormones and the operation of metabolic pathways. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111, CCHE 112, CCHE 231 and CCHE 232.			
CBIO 415	Physical Chemistry for Biologists	3 Credits	
This course places emphasis on the use of biological examples to illustrate the principles of physical chemistry. The relevance of physical chemistry to biology is stressed. Topics introduced include: quantitative modeling in bioinformatics and systems biology; basic principles of statistical thermodynamics; chemical kinetics with selected applications in bio-molecular systems; molecular driving forces in biology; and computation with biomolecular structures and selected quantitative models of bio-molecular networks. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111 and CCHE 112.			

CBIO 420	Biology of Radioactive Materials	4 Credits
This course will review types of ionizing radiation and their differences, physical and chemical interactions of radiation with key biological molecules, effects on living matter beginning with molecular and cellular interactions and proceeding to tissue, organ, and organism levels, emphasizing the human system. Radiation's beneficial effects in cancer therapy and medicine as well as detrimental and carcinogenic effects will be discussed. Specific units will consider food irradiation, nuclear power plant accidents, radiation terrorism, everyday sources of exposure to humans, and other practical situations involving radiation. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111, CCHE 112 and CBIO 261.		
CBIO 465	Endocrinology	3 Credits
structure and biosynthesis, mechanism <i>Prerequisites</i> : CBIO 111, and CBIO 11	ystem, including anatomy of the brain, neuroendocrine control, gla as of hormone action, and relationship to reproduction, lactation, 2 and CBIO 491 or CBIO 390. This course emphasizes the study o plants. Three (3) lecture hours and four (4) laboratory hours require 5 112. Recommended: CBIO 331.	growth, and metabolism. f photosynthesis, nitrogen
CBIO 476/476L	Human Physiology	4 Credits
and effect of hormonal actions, neurotra	ous tissues, organs, and organ systems of humans, with emphasis on nsmission, cardiovascular control and muscle contraction in this cour veek. <i>Prerequisites</i> : CBIO 111, CBIO 112, CCHE 111 and CCHE 112.	
CBIO 478L	Cell Biology Laboratory	3 Credits
Introduction to experimental design, laboratory procedures, and instrumentation. Cell culture, cell growth kinetics, enzyme purification and kinetics, bacterial genetics studies, virus isolation and replication, column chromatography, protein synthesis and isolation of cell organelles. Two (2) 2.5-hour laboratories required per week. <i>Prerequisites</i> : CBIO 111, CBIO 112, CBIO 312, CCHE 111, CCHE 112, CCHE 231, and CCHE 232. <i>Co-requisite</i> : CBIO 375.		
CBIO 480	Research in Biology	1–9 Credits
An independent faculty-supervised laboratory investigation course on topics of special interest. Students present periodic reports and are required to make an oral presentation and submit a written paper on their research project. This course is offered each semester may be repeated for varying credit hours up to 9 hours. <i>Prerequisite</i> : Permission of department chair and faculty research supervisor. A maximum of nine (9) credits of research can be applied toward graduation.		
CBIO 482	Seminar in Biology	1 Credit
Students present scientific seminars or selected topic and submit a written pape	n contemporary biological topics. Students are required to make ar r. One (1) lecture hour per week.	n oral presentation on the
CBIO 484	Eukaryotic Gene Control	3 Credits
of gene regulation during normal develo modifications, epigenetics, non-coding I and bioinformatics analysis of differentia		into chromatin, chromatin tection of gene expression
CBIO 491/491R	Biochemistry I	3 Credits
	rre and function of proteins, nucleic acids, carbohydrates, and lipids. T Prerequisites : CBIO 111, CBIO 112, CCHE 231 and CCHE 232.	inree (3) lecture nours and
CBIO 492/492R	Biochemistry II	3 Credits
(3) lecture hours and one (1) recitation h	ol mechanisms involved in DNA replication and introductory recombir nour per week. <i>Prerequisites</i> : CBIO 111, CBIO 112, CBIO 491, CCHE 23	31 and CCHE 232.
CBI0 499	Special Topics	1-4 Credits
÷ .	ted contemporary topics in biology. The course may be repeated fo e topics may require permission of the instructor.	r credit when topic varies.
CBIO 501/502		
This course meets once a week for 1 hour. Research is presented/ discussed by the faculty, invited speakers and degree candidates. [Every Semester, 0 credit] REQUIRED for every semester of in resident matriculation until a candidate reaches the point where he/she is enrolled in Thesis/Dissertation Consultation ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for good academic standing		
[Every Semester, 0 credit] REQUIRED for	r every semester of in resident matriculation until a candidate reache	s the point where he/she is
[Every Semester, 0 credit] REQUIRED for	our. Research is presented/ discussed by the faculty, invited speaker r every semester of in resident matriculation until a candidate reacher.	ers and degree candidates. s the point where he/she is
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504	our. Research is presented/ discussed by the faculty, invited speaker r every semester of in resident matriculation until a candidate reacher tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for	ers and degree candidates. s the point where he/she is good academic standing 3 Credits
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504	our. Research is presented/ discussed by the faculty, invited speaked r every semester of in resident matriculation until a candidate reached tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics	ers and degree candidates. s the point where he/she is good academic standing 3 Credits
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504 This course provides an in-depth study of	our. Research is presented/ discussed by the faculty, invited speaked r every semester of in resident matriculation until a candidate reaches tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics If the structure, function and regulation of genes in bacteria and viruse Cell Biology	ers and degree candidates. s the point where he/she is good academic standing 3 Credits es.
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504 This course provides an in-depth study of CBIO 506	our. Research is presented/ discussed by the faculty, invited speaked r every semester of in resident matriculation until a candidate reaches tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics If the structure, function and regulation of genes in bacteria and viruse Cell Biology	ers and degree candidates. s the point where he/she is good academic standing 3 Credits es.
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504 This course provides an in-depth study of CBIO 506 Students study cellular structure and fur CBIO 509	our. Research is presented/ discussed by the faculty, invited speake r every semester of in resident matriculation until a candidate reaches tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics of the structure, function and regulation of genes in bacteria and viruse Cell Biology action in this course.	ars and degree candidates. s the point where he/she is good academic standing 3 Credits 3 Credits 3 Credits
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504 This course provides an in-depth study of CBIO 506 Students study cellular structure and fur CBIO 509	our. Research is presented/ discussed by the faculty, invited speaked r every semester of in resident matriculation until a candidate reaches tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics of the structure, function and regulation of genes in bacteria and viruse Cell Biology action in this course. Methods/Techniques in Biology	ars and degree candidates. s the point where he/she is good academic standing 3 Credits 3 Credits 3 Credits
[Every Semester, 0 credit] REQUIRED for enrolled in Thesis/Dissertation Consulta CBIO 504 This course provides an in-depth study of CBIO 506 Students study cellular structure and fur CBIO 509 This is a laboratory course which covers CBIO 511 or CCHE 551	our. Research is presented/ discussed by the faculty, invited speaked our. Research is presented/ discussed by the faculty, invited speaked r every semester of in resident matriculation until a candidate reached tion ONLY. CBIO 501- Fall; CBIO 502- Spring. Attendance required for Molecular Genetics of the structure, function and regulation of genes in bacteria and viruse Cell Biology action in this course. Methods/Techniques in Biology standard and current research techniques in cell biology, molecular biology	ars and degree candidates. s the point where he/she is good academic standing 3 Credits 3 Credits 3 Credits iology, and biochemistry. 3 Credits

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CBIO 512 or CCHE 552	Biochemistry II	3 Credits
This course focuses on biosynthesis and the biological significance of carbohydrates, lipids, proteins, enzymes, nucleic acids and other endogenous compounds.		
CBIO 551	Biostatistics	3 Credits
This course focuses on the statistical the	ory and methods as applied to biological research.	
CBIO 552	Bioinformatics	3 Credits
The general objective of this course is to provide a one-semester introduction and overview to the fields of bioinformatics and genomics. Bioinformatics is an emerging field that comprises the intersection of biology, mathematics, and computer science to address biological and medical research problems. <i>Prerequisites</i> : Graduate students must have completed the CBIO 551 (biostatistics) or equivalent. Undergraduate students must be junior status, GPA 3.0 or higher, a course in Biostatistics/Statistics (200 level or above) and permission of instructor.		
CBIO 801	Thesis Consultation	1 Credit
CBIO 871	Research in Molecular Biology	Variable - 3-12 Credits
	r	1
CBIO 881	Research in Cellular Biology	Variable - 3-12 Credits
CBIO 884	Research in Biochemistry	Variable - 3-12 Credits
CBUS 206	Management Information Systems	3 Credits
This introductory course contains ideas	s, concepts, and principles on the basic information systems to whi	ich every business student
	s requirement. It integrates both computer concepts and informat	ion systems concepts, and
provides a strong managerial emphasis.	Principles of Accounting I	3 Credits
	-semester sequence of Principles of Accounting that introduces busi	
accepted accounting principles. The primary objective of the course is to help students understand (a) basic concepts and theories of contemporary external financial accounting and reporting per Generally Accepted Accounting Principles (GAAP) and (b) procedures used to measure, record, and report financial data related to the topics to be covered. The topics in this first course include the accounting cycle and cover the fundamentals of recording and accumulating accounting data and the preparation, meaning, and uses of financial statements.		
CBUS 208	Principles of Accounting II	3 Credits
order costing, process costing, cost-pro-	o-semester sequence of Principles of Accounting. Topics to be covere- fit-volume analysis, performance evaluation tools, master budgeting sed accounting process, analysis of financial statements and cash flo	process, capital budgeting
CBUS 209	Accounting for Non-business Majors	3 Credits
	erial accounting, with emphasis on the content, interpretation, and u	
	eporting of net income and financial position, and the theories und accounting topics designed to extend the student's knowledge to the	
CBUS 250	Survey of Financial Planning	3 Credits
Overview of the financial planning process for individuals and families: financial planning statements, cash flow management, time value of money, and planning with respect to education, insurance, investments, tax, retirement, and estate transfers. Through classroom lecture, examination, and assignments the students will gain an understanding of how the financial planning process can benefit families and individuals. Students will have the opportunity to apply basic financial planning knowledge gained through assigned readings and lectures by completing assignments and exams. At the conclusion of this course, students will be familiar with financial planning processes, content areas, and techniques.		
CBUS 285	Real Estate Principles and Practices	3 Credits
the educational requirements for the Ge	pts and attributes. The appraisal process and real estate law are also orgia Real Estate Sales license. This course is counted only as a genera	
concentration elective. CBUS 295	Leadership and Professional Development I	1 Credit
	lopment courses are designed to help students identify, appreciate	
strengths that will enable them to communicate, learn, and think more effectively. They will also be able to make critical decisions more efficiently and set realistic goals for success in college and the world of work. Students learn leadership attributes, roles and responsibilities; resume preparation, teamwork and group presentations, emotional intelligence, importance of credit and being credit worthy, etiquette skills, conflict resolution as well as other personal and professional development skills needed to function successfully in today's business environments. <i>Prerequisites</i> : Minimum grades of "C" in CGED 100 and CGED 101.		

CBUS 303	Intermediate Accounting I	3 Credits
	nancial accounting series providing a theoretical foundation, concepts rent liabilities; property, plant, and equipment; short-term investme n grade of "C".	
CBUS 304	Intermediate Accounting II	3 Credits
framework of financial accounting, valua	rse financial accounting series, providing an in-depth study of the ac tition of balance sheet accounts, recognition of revenues, matching of e lts, and cash flows of an entity. Prerequisite : CBUS 303 with a minimu	expenses, and the reporting
CBUS 305	Cost Accounting	3 Credits
making. <i>Prerequisite</i> : CBUS 207 and CB	Dypment of cost estimates, and preparation of relevant information US 208 with minimum grades of "C".	for management decision
CBUS 308	Accounting Information Systems	3 Credits
	nizations. Topics include selected hardware and software concepts, f plementation, and control. <i>Prerequisite</i> : CBUS 303 with a minimum g	
CBUS 313	Statistics I	3 Credits
	niques, and applications to business decision making. This course cov organization, presentation, and introduces students to probability	
CBUS 314	Statistics II	3 Credits
	e analysis of variance, simple regression, multiple regression, correlati ies analysis and forecasting. The statistical software package is used. I	
CBUS 315	Systems Analysis and Design	3 Credits
current technologies to solve business p	actical approach to systems analysis and design, using a blend of tra roblems. Students become familiar with how systems analysts interac usiness organization. The systems development life cycle (SDLC) is u 6	ct with users, management,
CBUS 317	Enterprise Integration Systems	3 Credits
In this course students learn about the supply chain management programming environment, including data and communications protocols/standards, server and client operating systems, and a working knowledge of at least one on-line Enterprise Resource Planning Application. Students are prepared to understand their business functions. In this course students obtain hands-on experience with the actual systems that are used to actually provide this functional integration. Enterprise integration is not only about software but also about the power of automation on business productivity. Students will be provided with the concepts of enterprise resource planning and extensive exposure to SAP. <i>Prerequisite</i> : CBUS 206.		
CBUS 325	Business Communication	3 Credits
	h adapts standard English to the needs of business. The student deve I strengthens interpersonal and professional communication skills a CSTA 101	
CBUS 330	Legal, Social, and Ethical Aspects of Business I	3 Credits
to the role of the court systems in busine	e surveys the nature, types, and functions of laws regulating business and the concepts of contract and agency. Students are also introduc 251 and ECO 252 and CBUS 207 and CBUS 208.	
CBUS 331	Legal, Social, and Ethical Aspects of Business II	3 Credits
	partnerships, corporations, commercial paper, secured transactio gulating business. Increased emphasis on social and ethical respon	
CBUS 335	Principles of Marketing	3 Credits
the elements of the marketing mix to assessment of the marketing environm	core concepts of marketing. Emphasis is placed on developing an eth provide customer satisfaction in the global marketing of goods an ent, designing and conducting marketing research, and determining urchasing decisions. Prerequisites : CMAT 209 and CMAT 210, CECC	d services. Topics include g what elements are most
CBUS 336	Consumer Behavior	3 Credits
This course provides an overview of the processes that consumers utilize to evaluate, purchase, use and dispose of goods and services expected to satisfy their needs. Insights into consumer identity issues are provided as a background for presenting the consumer behavior concepts, processes, and models that help explain differences in consumer's pre- and post-purchase behavior and choice. Implications for marketing strategies (e.g., market research procedures, market segmentation, product design, pricing, and promotion) are discussed. <i>Prerequisite</i> : CBUS 335.		
CBUS 337	Introduction to International Business Management	3 Credits
	ental factors affecting the international operations of United States servations regarding leadership and helps students assess leade	

CBUS 340	Principles of Management	3 Credits
influencing, and controlling as these fact	valuation, and practice of management. Emphasis is on planning, l ors affect managerial decision making. Addresses problems, opportu CO 251 and CECO 252, CBUS 207 and CBUS 208.	
CBUS 341	Business Finance	3 Credits
institutions, efficient markets, valuation	of finance in both corporate finance and investments. Topics incluc on theory, capital budgeting, portfolio theory, cost of capital, CBUS 207 and CBUS 208 and CECO 251 and CECO 252.	le risk and return, financial and international finance.
CBUS 360	Principles of Insurance	3 Credits
Study of the basic uses and functions of consumer. <i>Prerequisite</i> : Minimum grade	of insurance as applied to the overall treatment of risk. Presented of "C" in CBUS 341.	from the viewpoint of the
CBUS 362	Supply Chain Management	3 Credits
	e students will be able to describe key supply chain managemen anagement in improving a firm's competitive position, and learn a ironment. Prerequisite: CBUS 206.	
CBUS 364	Procurement and Supply Management	3 Credits
The aim of this course is to get students and supply management. Through web-	pperational role of the purchasing and supply management functions acquainted with the fundamental concepts, models, and instrumen based projects, case assignments, and industry presentations, the leas, and biggest problem areas in this field. <i>Prerequisite</i> : CBUS 362. Project Management	ts in the area of purchasing course will provide insights
	structured process for managing projects. The emphasis is on the de	
organizing, implementing, and controll specifications, on schedule, and within	ling of single and multiple projects, in order to successfully con budget. Other topics include project organization, roles of the onally, the importance of communication and people management i	nplete them within quality project manager and team
CBUS 368	Real Estate Finance and Investments	3 Credits
	tions of real estate finance; sources of funds; mortgage risk analysis: dential, industrial, and commercial properties. Prerequisite : Minimu	
CBUS 372	Personnel Management	3 Credits
	iman performance in the organization. Students examine struct , and reward practices as means of affecting human behavior in c	
CBUS 373	Sports and Entertainment Marketing	3 Credits
Emphasis is placed on the following	terested in application of marketing principles to sports, entertain principles as they apply to the industry: branding, licensing, an rchandising; economic foundations; promotion; safety and security; a	d naming rights; business
Emphasis is placed on the following		d naming rights; business
Emphasis is placed on the following foundations; concessions and on site mer CBUS 374 An examination of the sports and enter	principles as they apply to the industry: branding, licensing, an rchandising; economic foundations; promotion; safety and security; a Sports and Entertainment Law ertainment industry requires delving into the law of contracts, la	d naming rights; business nd human relations. 3 Credits abor, anti-trust, intellectual
Emphasis is placed on the following foundations; concessions and on site men CBUS 374 An examination of the sports and enter property, torts, Internet and the U.S. Co Title IX's impact on athletic opportunitie professional team sports including looking of movement from team to team. The looking at team franchise movement in	principles as they apply to the industry: branding, licensing, an rchandising; economic foundations; promotion; safety and security; a Sports and Entertainment Law ertainment industry requires delving into the law of contracts, la nstitution. Our analysis begins by studying college sports, amateur es for women. A significant amount of the classroom material is devi- ng at collective bargaining agreements, labor discord, privacy, salarie economic aspects of both professional sports and movie industry professional sports and financing, producing, and distributing mov gth. Agency law is also examined in the context of the relationship	d naming rights; business nd human relations. 3 Credits abor, anti-trust, intellectual sports, Olympic sports, and oted to surveying the major es, drug testing and freedom are explored. This includes vies and TV. The role of the
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CBUS 382	Marketing the Entrepreneurial Venture	3 Credits	
	s available to market their venture. Emphasis will be placed on the u		
strategies and tactics. Use of technology and social media will be reinforced and evaluated.			
CBUS 395	Leadership and Professional Development II	1 Credit	
The Leadership and Professional Development courses are designed to help students identify, appreciate and capitalize on natural strengths that will enable them to communicate, learn, and think more effectively. They will also be able to make critical decisions more efficiently and set realistic goals for success in college and the world of work. Students learn leadership attributes, roles and responsibilities; resume preparation, teamwork and group presentations, emotional intelligence, importance of credit and being credit worthy, etiquette skills, conflict resolution as well as other personal and professional development skills needed to function successfully in today's business environments. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 295, Leadership and Professional Development I.			
CBUS 405	Auditing and Control	3 Credits	
Examination of basic auditing concepts and practices, and the auditor's professional responsibilities. Emphasis) A case-based graduate seminar that provides the students with the opportunity to identify and research issues in accounting. Developing the students' professional written communication skills is an important component of this course. Emphasis is on auditing standards and the auditing procedures commonly used in public accounting. The course emphasizes practice standards and procedures of auditing: ethics, legal liability, sampling methods, control systems, control design, and control evaluation. <i>Prerequisite</i> : CBUS 303 and CBUS 304 with a minimum grade of "C".			
CBUS 411	Retailing	3 Credits	
	bles of retailing and its role in distribution in terms of administrative opens and current trends in retailing. <i>Prerequisite</i> : CBUS 335.	organization, site selection,	
CBUS 420	International Financial Management	3 Credits	
International business decision making emphasizing the effects of internationalized financial and non-financial markets. Exchange rate analysis, hedged costs of funds, economic exposure and management, capital budgeting, financial and corporate strategy, and the evaluation of international risks and returns. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 341.			
CBUS 421	Introduction to Professional Sales	3 Credits	
A study of the theory and practice of pr Prerequisite : CBUS 335.	ofessional sales with special emphasis on application of concepts in	actual sales presentations.	
CBUS 422	International Marketing	3 Credits	
Analysis of the multinational process of World economics is stressed. <i>Prerequisi</i>	planning and promotions of goods, ideas, and services worldwide. Spe <i>te</i> : CBUS 335.	ecial consideration of Third	
CBUS 426	Individual Income Tax	3 Credits	
Introduction of tax preparation for indi	Individual Income Tax viduals using the Internal Revenue Code and rulings; individual tax is course. <i>Prerequisite</i> : CBUS 207 and CBUS 208 with minimum grade	planning; tax- payer rights	
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CBUS 452	Security Analysis and Portfolio Management	3 Credits
performance utilizing financial and stati investment industry and international ir	s in various types of listed securities including stocks, bonds, an stical models with the aid of investment software. Topics include leg ivestment alternatives. Students are introduced to the fundamentals nent. Prerequisite : Minimum grade of "C" in CBUS 341.	al and ethical issues in the
CBUS 453	Corporate Finance	3 Credits
Development of a framework that is useful for understanding a broad range of important corporate financial decisions. Substantial emphasis will be placed on discussion of the determinants of corporate financing and payout policies, alternative methods of security issuance, and mergers and acquisitions. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 341.		
CBUS 454	Financial Analysis and Decision Making	3 Credits
Exposes students to various forms of financial decision making in a variety of contexts. Students will practice decision-making skills using financial contexts analysis in assessing firm performance, evaluating financial statement analysis, financial forecasting, and investment and financing decision analysis. Textbook case studies and computer software with current technology for financial modeling and data analysis are utilized. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 341.		
CBUS 458	Retirement Planning and Employee Benefits	3 Credits
This course provides individuals with knowledge of both public and private retirement plans. The public plans include Social Security, Medicare, and Medicaid. The private plans include pension, profit sharing, defined benefit, defined contribution, nonqualified, and individual plans and their regulatory provisions. The specifics of the various qualified and tax advantaged plans are analyzed as well as non-qualified deferred compensation plans. Other issues that individuals face during employment and retirement are also discussed, such as life-style choices, and health issues. Retirement plans are often offered as part of an overall benefits package that employees are offered through their employer. Specifics about several employee benefits will be discussed in the course as well. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 250 and CBUS 341.		
CBUS 459	Estate Planning	3 Credits
Estate Planning deals with the efficient accumulation, conservation and distribution of a client's acquired property. This course covers estate planning techniques which may be used during a client's life, as well as at death, in order to meet stated objectives. The identification and use of appropriate forms of wills and trusts is set forth. Techniques for reducing, freezing, or eliminating the Unified Transfer Tax are explained and applied to client situations. Finally, post-mortem planning techniques are identified and explained. <i>Prerequisite</i> : Minimum grade of "C" in CBUS 250 and CBUS 341.		
CBUS 460	Operations Management	3 Credits
This course provides students with an understanding of the primary activities of the operations function in organizations. Intended to develop skills in the art of formulating quantitative models of real world decision making, operations strategy, and business applications including cost-benefit analysis, forecasting, problem design and processing, planning, allocating scarce resources, facility locations, layouts, scheduling, and inventory management. Students will experience the extensive use of the computer to assist in solving the business problems. <i>Prerequisite</i> : CBUS 313.		
CBUS 461	Strategies in Financial Planning (Capstone Course)	3 Credits
reinforced through the analysis of finan	se students' knowledge, critical thinking, and decision-making skills i cial planning case studies. Students will develop comprehensive finan ons, expectations, and goals. <i>Prerequisites</i> : Minimum grade of "C" in	ncial recommendations for
CBUS 462	Advanced Topics in Supply Chain Management	3 Credits
This course provides in-depth treatmen offering. <i>Prerequisite</i> : CBUS 362.	t of one or more advanced areas of supply chain management. The	topics will vary with each
CBUS 465	Advanced Accounting	3 Credits
	Itiple ownership; consolidated financial statements and partnership pecial topics. <i>Prerequisite</i> : CBUS 304 with a minimum grade of "C".	accounts; foreign currency
CBUS 468	Organizational Behavior	3 Credits
Exploration of organizational behavior and human performance in organization. Students examine structure, the selection process, performance appraisal, control systems, and reward practices as means of affecting human behavior in organizations. <i>Prerequisite</i> : CBUS 340. or CPSY 318, Industrial and Organizational Psychology, may be taken as a substitute course. Survey of methods and findings in the scientific study of humans at work as applied to business, industry and government. Topics include employee selection, training and motivation. <i>Prerequisites</i> : CPSY 211 and CBUS 313. Note: CPSY 318, Industrial and Organizational Psychology may be substituted for CBUS 468, Organizational Behavior.		
CBUS 470	Database Management	3 Credits
	sign and administration are covered. The students gain hands-on b-based data-oriented applications. Prerequisite : CBUS 362.	experience with relational
CBUS 471	Global Leadership	3 Credits
identify the forces of global change and	tasks which face managers in companies with worldwide operation the strategic challenges which impact individuals, managers and or maracteristics required to manage global operations in a changing e	ganizations. Subsequently,

CBUS 472	Quality, Diversity, and Productivity	3 Credits
This course is designed in an integrated fashion that fosters an "emerging paradigm" of systems thinking and learning regarding the disciplines of quality, leadership and productivity improvement. It emphasizes the concepts of Total Quality Management (TQM), Six Sigma DMIAC process and its application to modern management and the global marketplace, the new paradigm of customer value, measurement positioning, key stakeholders, product design, and cross-functional organizational systems. In addition, it focuses on viewing quality as a strategic issue and the concept that good quality can be a strategic competitive advantage.		
CBUS 474	Logistics Management	3 Credits
service, packaging, and materials handli	integration of transportation, inventory management, warehousing, ing. Students will be exposed to online logistics support systems to l on other business functions. <i>Prerequisite</i> : CBUS 362.	
CBUS 476	Supply Chain Management Strategies	3 Credits
This course provides integrated supply chain management strategies, incorporating procurement and supply management, production, logistics, transportation, and enterprise systems. Strategies are developed around internal issues including employee relations, ergonomics and workplace changes; ethical issues; and external issues including vendor and customer relations, customer service, and regulatory considerations. <i>Prerequisite</i> : CBUS 362.		
CBUS 478	Modeling the Supply Chain	3 Credits
planning problems and models. A major integration. The course attempts to dem integrated business planning, which is significant competitive advantage. <i>Prere</i> CBUS 480	cussions and examples that integrate qualitative and quantitative the approach relies heavily on optimization models, which provides fractionstrate that optimization models and methods provide comprehenses the essence of supply chain management. Firms that succeed in <i>quisite</i> : CBUS 362. Entrepreneurship and Enterprise eveloping or acquiring a major management and equity position in	ames or templates for such sive systems approaches to such efforts will realize a 3 Credits
	lems of purchasing or initiating an enterprise and the analysis needed	
CBUS 481	Entrepreneurial Practicum	3 Credits
interning in a small business in order to	nt in real life experiences of an entrepreneur. Each student will be ex o better hone their understanding of being an entrepreneur and the nowledge learned to complete his/her Business Plan.	
CBUS 482	Business Law for Entrepreneurs	3 Credits
	ent in legal issues related to entrepreneurs. It will take students thr owth to an initial public offering. It will highlight the legal preparation	
CBUS 483	Labor Relations	3 Credits
	f organized labor, collective bargaining, and government's role in m gement and labor in relation to the bargaining process.	anagement-labor relations;
CBUS 484	Small Business Management	3 Credits
process of new-business creation, includ new ventures. The student will learn	the conceptual idea phase to opening and operating the business. ling idea development, opportunity identification, market feasibility a how to create business plan. The class may include individual a ofessionals along with the Professor, who will grade the plans at the er	and financial challenges for nd/or team business plan nd of the course.
CBUS 485	Business Policy	3 Credits
	functional fields of business. Students approach policy making and a second control of the contr	nd CBUS 341.
CBUS 486	Sports and Entertainment Practicum	3 Credits
	tts can culminate their educational and internship experiences by e project may be combined with an internship in the industry.	choosing a project that is
CBUS 487	Contemporary Issues in Sports and Entertainment Management	3 Credits
This course will emphasize on the applic with students in the class).	ation and "real world" perspectives from people in the field (profession	onal guest lecturers interact
CBUS 488	Business Internship	3 Credits
	experiences in supervised business internship programs. At least s ews through the Career Planning and Placement office (CPPC). <i>Pre</i>	
CBUS 495	Leadership and Professional Development III	1 Credit
strengths that will enable them to comme efficiently and set realistic goals for responsibilities; resume preparation, tea worthy, etiquette skills, conflict resolution in today's business environments. Prere	opment courses are designed to help students identify, appreciate nunicate, learn, and think more effectively. They will also be able to m success in college and the world of work. Students learn leader amwork and group presentations, emotional intelligence, importance on as well as other personal and professional development skills need quisite : Minimum grade of "C" in CBUS 395, Leadership and Professio 2016	ake critical decisions more ship attributes, roles and e of credit and being credit ded to function successfully

308 Undergraduate Catalog 2014-2016

CCHE 111/111L/111R	General Chemistry I	4 Credits
	e chemistry. The topics covered in this course include: stoichiometry, a hree (3) hours of lecture, three (3) hours of laboratory and three	
CCHE 111H/L & 112H/L	General Chemistry I & II	4 Credits ea.
CCHE 111H: Fundamental theories and laws, chemical calculations, equations, periodic classification of the elements, structure of matter, and ionization. CCHE 112H: Study of chemical and ionic equilibria, nuclear chemistry, chemistry of the metallic elements, and elementary qualitative analysis of cations and anions. Three (3) lecture hours and six (6) laboratory and recitation hours per week.		
CCHE 112/112L/112R	General Chemistry II	4 Credits
	le: kinetics, equilibria, thermodynamics, and electrochemistry. Three urs of recitation are required. Prerequisite : CCHE 111.	(3) hours of lecture, three
CCHE 211/211L	Analytical Chemistry I	4 Credits
oxidation and reduction in solution, red	bus equilibria to include principles related to ionization, solubility, co ox potentials, electrochemical cells, and quantitative volumetric and nours per week are required. <i>Prerequisites</i> : CCHE 112/112L.	
CCHE 212/212L	Analytical Chemistry II	4 Credits
methods, and iodometry. Gravimetric, el	sequence. Focuses on principles and stoichiometry relating to acic lectrometric, optical, chromatographic, and other modern instrument ese procedures are studied. Three (3) lecture hours and six (6) labo L.	tal methods of analysis and
CCHE 231/231L/231R	Organic Chemistry I	4 Credits
spectroscopy. Studies are the properties	of carbon. The topics covered include: bonding, molecular structure s of aliphatic and aromatic compounds. Three (3) lecture hours, thre er week are required. <i>Prerequisites</i> : CCHE 112/112L/112R.	
CCHE 232/232L/232R	Organic Chemistry II	4 Credits
This is a continuation of CCHE 231. The topics covered include: bonding, molecular structure, reaction mechanisms and spectroscopy. Studies are the properties of aliphatic and aromatic compounds which include proteins, carbohydrates, drugs and biomolecules. Three (3) lecture hours, three (3) laboratory hours, and one and one-half (1.5) recitation hours per week are required. <i>Prerequisites</i> : CCHE 231/231L/231R.		
CCHE 341	Physical Chemistry I	3 Credits
The study of the laws and theories of chemical phenomena, including elementary thermodynamics, the gaseous, liquid, and solid state, equilibria, and chemical kinetics (rates of chemical reactions, and kinetics of complex reactions, and some molecular reaction dynamics). Three (3) lecture hours per week. <i>Prerequisites</i> : CCHE 211/211L; CPHY 111/11L and CPHY 112/112L; CMAT 111, CMAT 112, CMAT 211, and CMAT 212.		
CCHE 341L/341R	Physical Chemistry Laboratory and Recitation	1 Credit
	hemistry. Experiments carried out include coverage of five major an , quantum mechanics, and statistical mechanics. Four (4) laborator	
CCHE 342	Physical Chemistry II	3 Credits
application of elementary quantum med	ular reaction dynamics activated complex theory and dynamics of m chanics to atomic and molecular structure and spectroscopy. Three (11/111L and CPHY 112/112L; CMAT 111, CMAT 112, CMAT 211, and	3) lecture hours per week.
CCHE 342L/342R	Physical Chemistry II Laboratory and Recitation	1 Credit
	nemistry. Experiments carried out include coverage of five major and c, quantum mechanics, and statistical mechanics. Four (4) laborator	
CCHE 381	Junior-level Chemistry Seminar I	0 Credit
This is a one-hour lecture/seminar cou credit.	rse. CCHE 381 Zero (0) credit. CCHE 382 One (1) credit. One year o	
ССНЕ 382	Junior-level Chemistry Seminar II	1 Credit
This is a one-hour lecture/seminar cour credit.	se. CCHE 381, Zero (0) credits. CCHE 382, One (1) credit. One year of	of the course generates one
CCHE 412/412L	Instrumental Methods and Laboratory	4 Credits
A lecture and laboratory course covering instrumentation. Particular focus is on t	the theory, design, practical uses and applications of typical spectros he application of the instrumentation for chemical analysis. Three (3 <i>Prerequisites</i> : CCHE 211/211L, CCHE 341/341L/341R, and CCHE 34	3) lecture hours and six (6)
CCHE 421/421L	Inorganic Chemistry and Laboratory	3 Credits
This is an introduction to the descriptive	e chemistry of the elements. The topics covered in this course include	e: Brønsted and Lewis acids
and bases, electronic and molecular structure and coordination chemistry. Three (3) lecture hours with laboratory each week are required. <i>Prerequisites</i> : CCHE 341/341L/341R and CCHE 342/342L/342R.		

CCHE 431/431L	Advanced Organic Chemistry I and Laboratory	4 Credits	
This course is a study of the advanced topics in carbon chemistry. The topics covered include: Critical evaluation of modern organic theory mechanisms and rearrangements. It also includes a detailed study of important organic reactions and their application to selected laboratory experiments. Three (3) lecture hours and one (1) laboratory hour per week are required. <i>Prerequisites</i> : CCHE 231/231L/231R and CCHE 232/232L/232R.			
CCHE 432/432L	Methods of Structure Determination and Laboratory	4 Credits	
include separation techniques as well a	niques used in the determination of the structure of organic compuse the use of UV/VIS, IR, NMR, ESR, Raman and mass spectroscopy urs and one (1) laboratory hour per week are required. <i>Prerequisite</i> :	to elucidate structures of	
CCHE 441	Mathematical Methods in Chemistry	3 Credits	
	ised in physical chemistry, including applications of linear algebra uisites : CCHE 341/341L/341R and CCHE 342/342L/342R.	and differential equations.	
CCHE 451	Biochemistry I	3 Credits	
	BIO 491. An introduction to the structure and function of biolo Three (3) lecture hours per week. <i>Prerequisites</i> : CCHE 231 and CCH		
CCHE 452	Biochemistry II	3 Credits	
metabolism). Fundamentals of enzymati	IO 492. Basic metabolic path ways governing the function of cells c catalysis, including kinetics and mechanism. Three (3) lecture hour 32L/232R; CBIO 111/111L and CBIO 112/112L.		
CCHE 480	Special Topics in Chemistry	4 Credits	
Detailed study of a series of advanced to per week with required laboratory.	pics in any area of chemistry. Students undertake independent projec	ts. Three (3) lecture hours	
CCHE 481	Senior-Level Chemistry Seminar I	0 Credit	
This is a one year one-hour lecture/semi 482 one (1) credit.	nar two-course sequence that generates one hour of credit; CCHE 48	1 zero (0) credit and CCHE	
CCHE 482	Senior-Level Chemistry Seminar II	1 Credit	
This is a one year one-hour lecture/seminar two-course sequence that generates one hour of credit; CCHE 481 zero (0) credit and CCHE 482 one (1) credit. <i>Prerequisite:</i> CCHE 481			
CCHE 511	Environmental Chemistry	3 Credits	
An examination of the origins, transport, reactions, effects, ultimate fate of hazardous waste in the environment. This course is designed to develop a working level knowledge of: (1) chemistry fundamentals; and (2) the basic principles and concepts of environmental chemistry: including (a) geochemistry; (b) atmospheric chemistry; (c) environmental microbiology; and (d) waste treatment. Three (3) lecture hours per week.			
CCHE 512	Instrumental Methods	3 Credits	
An advanced lecture course focuses or instrumentation for chemical analysis. The second seco	the typical theory, design, and practical application of spectrosconnee (3) lecture hours per week.	ppic and chromatographic	
ССНЕ 521	Advanced Inorganic Chemistry	3 Credits	
Treatment of bonding and structure, oxid theory. Three (3) lecture hours per week	dation-reduction and acid-base theory, and correlation with chemical	reactivity, and Ligand field	
CCHE 531	Mechanistic Organic Chemistry	3 Credits	
0, , ,	ctive and steric effects and discussion reactive intermediates, nuc t of view. Three (3) lecture hours per week.	leophilic substitution and	
CCHE 532	Organic Synthesis	3 Credits	
disconnection approach for the synthes	and alicyclic compounds with emphasis on mechanisms. This cour is of complex organic molecules. The course will present modern n s to prepare target molecules. Three (3) lecture hours per week.		
CCHE 541	Thermodynamics	3 Credits	
	and methods in chemical thermodynamics and equilibria including and some applications to macromolecules. Three (3) lecture hours per		
CCHE 542	Quantum Chemistry	3 Credits	
	ve mechanics, with mathematical discussion of the hydrogen aton lar momentum operators, and applications to small molecules. Var re hours per week.		
CCHE 551	Advanced Biochemistry I	3 Credits	
	rates, lipids, proteins, enzymes, and other compounds of biologi the kinetics. Three (3) lecture hours ner week	cal significance and their	

CCHE 552	Advanced Biochemistry II	3 Credits
	etabolism of carbohydrates, lipids, proteins, nucleotides. An intensive	
	netics. Three (3) lecture hours per week.	
CCHE 561	Topics in Industrial Chemistry	3 Credits
control; process and equipment design management issues. Lectures will be give	duct development. Laboratory synthesis; scale-up to pilot plant an gn; quality control and environmental issues; product marketing ven by personnel from a variety of areas of the chemical industry: er soaps; and detergents, etc. Three (3) lecture hours per week.	g; and chemical industry
ССНЕ 562	Scale-Up for Chemists	3 Credits
	student with the principles of chemical production scale-up and ma phenomena involving momentum and energy transfer and unit op- sign. Three (3) lecture hours per week.	
CCHE 571	Introduction to Polymer Chemistry	3 Credits
Synthesis, including radical and ionic por rheological properties of polymeric mate		ships, characterization and
CCHE 572/572L	Techniques in Polymer Chemistry Lecture and Laboratory	3 Credits
	nts to experimental polymer chemistry, synthesis using ionic, free-	
	easurements by viscosity, osmometry, gel permeation and light ents of thermal transitions. Two (2) lecture hours and two (2) laborate	
CCHE 573	Physical Polymer Science	3 Credits
covered include chain structure and co	mong polymer structure, physical properties, and useful behavior of nfiguration, solution and phase behavior, glass-rubber transition b nical behavior of polymers, etc. Three (3) lecture hours per week.	
ССНЕ 700	Thesis Consultation	1 Credit
		l
CCIS 100	Information Technology and Computer Applications	3 Credits
	nputer concepts and productivity applications. Computer concepts incl tivity applications include word processing, spreadsheets, graphical pr	
CCIS 101	Computer Applications	3 Credits
An introductory course providing a prac web page design and implementation wi	tical overview of the primary topics in Computer Science. Introduction the XHTML, CSS, and JavaScript.	to computer applications,
CCIS 103	Scientific Computing for Simulation, Analysis and Visualization	3 Credits
An introduction to programming concor	· isualization	
the scientific programming and analysis	ts for biology, chemistry, mathematics, physics and social science maj tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors)	ors. The course introduces
the scientific programming and analysis	ts for biology, chemistry, mathematics, physics and social science maj tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and	ors. The course introduces
the scientific programming and analysis CCIS 103L	ts for biology, chemistry, mathematics, physics and social science maj tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors)	1 Credit
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo	ts for biology, chemistry, mathematics, physics and social science maj tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory	1 Credit
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce	ts for biology, chemistry, mathematics, physics and social science maj- tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i>	1 Credit p- <i>requisite</i> : CCIS 103. (For 3 Credits
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce	ts for biology, chemistry, mathematics, physics and social science maj- tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Ca</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur	1 Credit p- <i>requisite</i> : CCIS 103. (For 3 Credits
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce associated recitations require hands-on CCIS 104R	ts for biology, chemistry, mathematics, physics and social science maj- tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors)	1 Credit o- <i>requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce associated recitations require hands-on CCIS 104R A hands-on guided programming experie Co-requisite: CCIS 104. (For all majors) CCIS 105	ts for biology, chemistry, mathematics, physics and social science maj- tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Ca</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors) Business Programming Recitation ence in developing COBOL and Visual BASIC programs. Must be taken v	1 Credit <i>o-requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit while completing CCIS 104. 3 Credits
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce associated recitations require hands-on CCIS 104R A hands-on guided programming experie Co-requisite: CCIS 104. (For all majors) CCIS 105 An introduction to the fundamental co	ts for biology, chemistry, mathematics, physics and social science majo tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors) Business Programming Recitation ence in developing COBOL and Visual BASIC programs. Must be taken v	1 Credit <i>c-requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit while completing CCIS 104. 3 Credits tions and object oriented
the scientific programming and analysis CCIS 103L A hands-on guided experience in develo all non-majors) CCIS 104 An introduction to programming conce associated recitations require hands-on CCIS 104R A hands-on guided programming experie Co-requisite: CCIS 104. (For all majors) CCIS 105 An introduction to the fundamental co paradigm. Students are encouraged to	ts for biology, chemistry, mathematics, physics and social science majo tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors) Business Programming Recitation ence in developing COBOL and Visual BASIC programs. Must be taken v Programming Principles I encepts of problem solving focusing on programming oriented solu	1 Credit <i>c-requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit while completing CCIS 104. 3 Credits tions and object oriented
the scientific programming and analysis CCIS 103L A hands-on guided experience in develor all non-majors) CCIS 104 An introduction to programming concerning associated recitations require hands-on CCIS 104R A hands-on guided programming experience <i>Co-requisite</i> : CCIS 104. (For all majors) CCIS 105 An introduction to the fundamental comparadigm. Students are encouraged to <i>requisite</i> : CCIS 101 and CCIS 105L. CCIS 105L	ts for biology, chemistry, mathematics, physics and social science maj- tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors) Business Programming Recitation ence in developing COBOL and Visual BASIC programs. Must be taken v Programming Principles I nncepts of problem solving focusing on programming oriented solu be enrolled in or to have already completed CMAT 111. Guided la	1 Credit <i>p-requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit while completing CCIS 104. 3 Credits tions and object oriented aboratory is required. <i>Co</i> -
the scientific programming and analysis CCIS 103L A hands-on guided experience in develor all non-majors) CCIS 104 An introduction to programming concerning associated recitations require hands-on CCIS 104R A hands-on guided programming experience <i>Co-requisite</i> : CCIS 104. (For all majors) CCIS 105 An introduction to the fundamental comparadigm. Students are encouraged to <i>requisite</i> : CCIS 101 and CCIS 105L. CCIS 105L	ts for biology, chemistry, mathematics, physics and social science maji tool Matlab. <i>Co-requisite</i> : 103L. (For all non-majors) Scientific Computing for Simulation, Analysis and Visualization Laboratory ping Matlab programs. (Must be taken while completing CCIS 103) <i>Co</i> Business Programming epts for business majors. The classroom lecture utilizes a procedur programming. <i>Co-requisite</i> : CCIS 104R. (For all majors) Business Programming Recitation ence in developing COBOL and Visual BASIC programs. Must be taken v Programming Principles I nocepts of problem solving focusing on programming oriented solu be enrolled in or to have already completed CMAT 111. Guided la	1 Credit <i>p-requisite</i> : CCIS 103. (For 3 Credits ral pseudocode, while the 1 Credit while completing CCIS 104. 3 Credits tions and object oriented aboratory is required. <i>Co</i> -

CCIS 106L	Programming Principles II Laboratory	1 Credit
A hands-on guided programming experie	ence in developing programs. <i>Co-requisite</i> : CCIS 106.	I
CCIS 121	Introduction to Computer Systems	3 Credits
	tion of computer systems. Topics include input-output processing Assembly language programming will be emphasized. Prerequisite : C	
CCIS 200	Programming Mobile Devices for Non-Majors	3 Credits
Students learn programming concepts by	v building mobile apps for phones and tablets with the visual language	App Inventor.
CCIS 223	Data Structures	3 Credits
Introductory study of data structures, increquired. <i>Co-requisite</i> : CCIS 223L. <i>Prere</i>	Liuding record, file, linked structures, lists, stacks, queues, graphs and <i>quisites</i> : CCIS 106 and CCIS 106L.	trees. Guided laboratory is
CCIS 223L	Data Structures Laboratory	1 Credit
A hands-on guided data structures progr	amming and problem-solving experience that supplements CCIS 223.	Co-requisite: CCIS 223.
CCIS 229	Rich Internet Applications	3 Credits
with a brief introduction to server-side	t of applications for the World Wide Web. This course will emphasiz applications. This course will provide the student with an introduction sed applications. The focus will be on learning and understanding t	on to the main concepts of
CCIS 300	Storyboard Programming for Animation and Interactive Media for Non-Majors	3 Credits
Introduction to storyboarding and the p types, continuity, pacing, transitions and interactive media.	planning processes of visual storytelling for non-majors. Translatior I sequencing into a visual narrative. Using visual programming to an	n of concepts such as shot nimate storyboards. Use of
CCIS 315	Computer Logic Design	3 Credits
Provides and introduction to logic design	n. Topics covered include combinational and sequential circuits.	
CCIS 329	Advanced Server Side Applications	3 Credits
	ns, often called Rich Internet Applications (RIA). Topics include serv common Gateway Interface (CGI), server pages, database access, and	
CCIS 371	Computer Algorithms	3 Credits
Introductory study of algorithm design, traversals and complexity issues. Prereq	using appropriate data structures. Topics include algorithms for som <i>uisite</i> : CCIS 223.	rting, searching and graph
CCIS 372	Computer Architecture	3 Credits
Study of logical organization of com <i>Prerequisites</i> : CCIS 121 and CCIS 223.	puter hardware and functional components using a simulation	programming language.
CCIS 374	Database Systems	3 Credits
Study of basic concepts of databases, incl	uding data models, query processing and other topics of interest. Prer	equisite: CCIS 223.
CCIS 375	Artificial Intelligence	3 Credits
Introductory study of intelligent probl organization. <i>Prerequisite</i> : CCIS 223.	em solving and search algorithms, inference systems, machine in	telligence and knowledge
CCIS 381	Software Engineering	3 Credits
Introductory study of large software dev <i>Prerequisite</i> : CCIS 223.	elopment issues, including requirements analysis, specification, design	n, testing and maintenance.
CCIS 400	Fundamentals of Geographic Information Systems	3 Credits
Emphasis will be placed on concepts an	e theoretical concepts and practical experience to the field of Geograp d spatial reasoning of the analysis techniques. GIS functionality, meth ess in numerous disciplines will be covered in this course.	
CCIS 408	Introduction to VLSI Design	3 Credits
Study of signals in a digital represer transformations, and filters. <i>Co-requisite</i>	tation and the processing methods of these signals. Topics incl e: CCIS 408L. <i>Prerequisite</i> : CCIS 372.	lude time-series analysis,
CCIS 408L	VLSI Design Laboratory	1 Credit
Hands-on projects in VLSI Design, includ	ing programming of FPGAs. <i>Co-requisite</i> : CCIS 408.	
CCIS 409	Introduction to Digital Signal Processing	3 Credits
Study of signals in a digital represent transformations, and filters. <i>Co-requisite</i>	ntation and the processing methods of these signals. Topics incl e: CCIS 409L.	lude time-series analysis,

CCIS 409L	Digital Signal Processing Laboratory	1 Credit
Hands-on projects in Digital Signal Proce	essing. <i>Co-requisite</i> : CCIS 409.	
CCIS 410	Introduction to Embedded Systems	3 Credits
Embedded systems are computers that input/output devices and development	t are often specialized for a single task. Topics include system arch kits. Co-requisite : CCIS 410L.	itecture, real-time system,
CCIS 410L	Embedded Systems Laboratory	1 Credit
Hands on projects in Embedded Systems	s Co-requisite : CCIS 410.	
CCIS 412	Introduction to Image Processing and Computer Vision	3 Credits
	and feature extraction. Topics include pixel transformation, filters, ec equisite: CCIS 412L. Prerequisite : CCIS 372.	lge-detection, color spaces
CCIS 412L	Introduction to Image Processing and Computer Vision Laboratory	1 Credit
Hands on projects in Image Processing a	nd Computer Vision. <i>Co-requisite</i> : CCIS 412.	
CCIS 413	Introduction to Robotics	3 Credits
Topics include feature extraction, patter 413L. <i>Prerequisite</i> : CCIS 372.	n recognition, spatial recognition, fast color tracking, and stereoscopic	c vision. <i>Co-requisite</i> : CCIS
CCIS 413L	Robotics Laboratory	1 Credit
Hands on projects in Robotics. Co-requi	site: CCIS 413.	
CCIS 416	Introduction to High Performance Computing	3 Credits
related to accessing high performance	high performance computing as it relates to scientific computing. The computing resources, developing applications for those resources, tions are designed to provide knowledge and experiences to students nee computing. Prerequisite : CCIS 473.	and executing developed
CCIS 422	Introduction to Computer Forensics	3 Credits
	o pertain legal evidence found in computer files and storage media. To a, encryption, intrusion detection, and analysis of log files.	opics include methods and
CCIS 423	Introduction to Wireless and Wired Networks	3 Credits
Study of design and analysis techniques medium access control, protocol models	for wireless and wired computer networks. Topics include network de like OSI, routing, and QoS.	evice hardware, topologies,
CCIS 429	Introduction to Digital Multi-Media	3 Credits
	eate and distribute digital photographs, video and sound. Topics include dwidth requirements, perceived quality, watermarking, digital signatur	
CCIS 431	Information Security	3 Credits
	he concepts relevant to information security. Concepts include develop	
	ion of resources, trusted systems, and cryptography. <i>Prerequisites</i> : CC Introduction to E-Commerce, Web-services and Cloud	
CCIS 432	Computing	3 Credits
Study of electronic commerce applied metrics, and policies. <i>Prerequisite</i> :	cations. Topics include technical infrastructure, business strate CCIS 274.	gies, performance
CCIS 433	Principles of Computer Game Design	3 Credits
This course introduces the fundamental implementation, while simultaneously le	s of video and computer game design. Students learn the practical aspe	cts of game
CCIS 473	Operating Systems	3 Credits
	ts, including multiprogramming, resource management and implemen	
CCIS 476	Programming Languages and Compilers	3 Credits
An overview of syntactic and semantic a of procedural languages. <i>Prerequisite</i> : 0	spects of programming languages, including basic concepts of parsing, CCIS 223.	translation, and execution
CCIS 480	Current Topics in Computer Science	3 Credits
This course covers new developments in	a computer science. <i>Prerequisite</i> : Instructor permission required.	
CCIS 490	Practical Training	3 Credits
course, a student must complete at the e performance rating from the employer, a	laboratories via internship and cooperative education programs. To re quivalent of 6 months of full-time employment with the same employe and write a paper describing in reasonable detail the work environmer e and experience gained from the employment. <i>Prerequisite</i> : Consent of	r, receive a satisfactory nt, activities,

CCIS 493	Senior Design Project	3 Credits
	minating in a design project acceptable to the department. This coust for the students. <i>Prerequisite</i> : CCIS 381 and consent of a	
CCIS 500	Applications Software	3 Credits
	 -on training in the use of Microsoft Office Suites, including applicat design, and presentations design. <i>Prerequisite</i>: Graduate standing 	
CCIS 509	Introduction to Information Systems	3 Credits
Study of Information Systems at an i programming languages, and operat	introductory level. Topics include data structures, hardware conce ting systems.	pts, software engineering,
CCIS 571	Introduction to Algorithms	3 Credits
Study of algorithm design, using app complexity issues.	propriate data structures. Topics include algorithms for sorting, sea	rching and graph traversal and
CCIS 572	Introduction to Computer Architecture	3 Credits
Study of logical organization of com	puter hardware and functional components.	
CCIS 573	Introduction to Operating Systems	3 Credits
Study of basic operating system stru	ictures and designs, including process management, resource mana	agement and implementation.
CCIS 574	Introduction to Database Systems	3 Credits
Study of basic concepts of databases	s, query processing and other topics of interest.	
CCIS 575	Introduction to Artificial Intelligence	3 Credits
Introductory study of intelligent pro organization.	blem solving and search algorithms, inference systems, machine ir	ntelligence and knowledge
CCIS 576	Programming Languages and Compilers	3 Credits
Overview of syntactic, semantic and	pragmatic principles of programming. Parsing, translation and cor	npiler construction.
CCIS 671	Algorithm Design and Analysis	3 Credits
Study of algorithm design and analy graphs, fast Fourier transforms and	sis techniques. Topics include designing algorithms for sorting, orc mathematical manipulations. An introduction to NP completeness	ler statistics, set manipulation, theory. <i>Prerequisite</i> : CCIS 571.
CCIS 672	Computer Organization	3 Credits
	ion of functional components of computers, including processors, c ks, memory hierarchies, array and pipeline machines. Prerequisit	
CCIS 673	Operating Systems Design	3 Credits
Advanced study of major issues in o systems. <i>Prerequisite</i> : CCIS 573.	perating systems including resource management, concurrent prog	grams and duality of operating
CCIS 674	Database Design	3 Credits
	including data models, relational interfaces, relational database des Concepts are reinforced via design projects. Prerequisite: CCIS 574	
CCIS 675	Artificial Intelligence	3 Credits
processing. Prerequisite: CCIS 575.	theorem proving, knowledge representation, expert systems, learn	
CCIS 676	Theory of Programming Languages Design	3 Credits
also include exception handling and	nming languages and issues of modular, concurrent, functional, log software reuse. Prerequisite : CCIS 576.	
CCIS 681	Computability Theory	3 Credits
CCIS 571.	y including recursive function theory, Turing machines and self-mo	
CCIS 683	Algorithms for Parallel Computers	3 Credits
mathematical manipulations and nu	hitecture. Topics include design and analysis of parallel algorithms merical problems. <i>Prerequisites</i> : CCIS 671 and CCIS 672.	
CCIS 691	Software Engineering	3 Credits
	ncess as a framework for developing software systems with emphases software process. Prerequisite: Graduate standing.	sis on various management issues
CCIS 701	Logic Circuit Design	3 Credits

CCIS 702	VLSI Design	3 Credits
Study of VLSI systems design, emphasiz	ing quantitative characterization, analysis and computer techniques.	Prerequisite: CCIS 701.
CCIS 703	Microprocessor Design	3 Credits
	ign and operation of microprocessors. Topics include architecture, gn techniques and applications. <i>Prerequisites</i> : CCIS 572, CCIS 701, CC	
CCIS 709	Digital Signal Processing	3 Credits
Study of signals in a digital represe transformations, and filters. Co-requisi	ntation and the processing methods of these signals. Topics in the CCIS 7091.	nclude time-series analysi
CCIS 709L	Digital Signal Processing Laboratory	0 Credit
Hands-on projects in Digital Signal Proc		
CCIS 710	Embedded Systems	3 Credits
input/output devices and development		-
CCIS 710L	Embedded Systems Laboratory	0 Credit
Hands on projects in Embedded System	s. <i>Co-requisite</i> : CCIS 710.	-
CCIS 711	Image Processing	3 Credits
	n and feature extraction. Topics include pixel transformation, filters, <i>equisites</i> : CCIS 709. <i>Co-requisite</i> : CCIS 711L.	edge-detection, color space
CCIS 711L	Image Processing Laboratory	0 Credit
Hands-on projects in Image Processing.	Co-requisite: CCIS 711.	
CCIS 712	Computer Vision	3 Credits
Topics include feature extraction, patte 711. Co-requisite: CCIS 712L.	n recognition, spatial recognition, fast color tracking, and stereoscop	oic vision. Prerequisite: CC
CCIS 712L	Computer Vision Laboratory	0 Credit
Hands-on projects in Computer Vision.		
CCIS 713	Robotics	3 Credits
Topics include hierarchical and reactive agent paradigms. <i>Prerequisite</i> : CCIS 67	e paradigms, localization and navigation, analysis of range and vision s 75. <i>Co-requisite</i> : CCIS 713L.	sensors, planning, and mult
CCIS 713L	Robotics Laboratory	0 Credit
Hands on projects in Robotics. Co-requ		
CCIS 714	Distributed Systems	3 Credits
	the concepts relevant to information security. Concepts include dev tion of resources, trusted systems, and cryptography.	elopment of security polic
CCIS 715	Pattern Recognition	3 Credits
	of decision-theoretic and syntactic methods of pattern recognition. ' ng and automatic learning of decision functions and grammars.	Topics include determinist
CCIS 720	Data Communication	3 Credits
Study of theories and methods to data c	l ommunication techniques, data link control, multiplexing and commu	inication networking.
CCIS 721	Data Security	3 Credits
	the concepts relevant to information security. Concepts include dev tion of resources, trusted systems, and cryptography.	elopment of security polic
CCIS 722	Computer Forensics	3 Credits
	o extract, analyze and report on data found in computer files and stora distorted data, encryption, intrusion detection, and analysis of log file	
CCIS 723	Wireless and Wired Networks	3 Credits
Study of design and analysis techniques	for wireless and wired computer networks. Topics include network of	
medium access control, protocol models		2.6- 14
CCIS 724	Information Assurance	3 Credits
	esearch tools relevant to information assurance. Topics include: firew. letection and prevention, and wireless security.	ans, password cracking,
CCIS 729	Internet Application Design	3 Credits
	on the client side and on the server side. This course focuses on server I), server pages, database access, and AJAX. <i>Prerequisite</i> : CCIS 574.	
CCIS 730	Digital Multimedia	3 Credits
Introduction of concepts and tools to cr	eate and distribute digital photographs, video and sound. Topics inclu dwidth requirements, perceived quality, water-marking, digital signat	de data formats, streaming

CCIS 731	Human Computer Interfaces	3 Credits
	ed in interaction with computers. Topics include terminal emulation, split-sci	reen technology, menu-driven
	g and response-time considerations. E-Commerce with Web-services	3 Credits
CCIS 732 Study of electronic commerce	e applications. Topics include technical infrastructure, business strategie	
policies.	e appreations. Topies metude technical initiastitucture, business strategie	s, performance metrics, and
CCIS 735	Knowledge-intensive Systems	3 Credits
	nining, and knowledge representation. Topics include rule-based programm	ing, semantic Web, reasoning,
	zing maps. <i>Prerequisite</i> : CCIS 675.	3 Credits
CCIS 800	Practical Training th government laboratories and industry via cooperative education and int	
	must register prior to undertaking the proposed work. <i>Prerequisite</i> : Approv	
CCIS 801	Topics in Computer Science	3 Credits
	urrent interest in the department, leading to a publishable technical report.	Prerequisite: Approval of the
Department Chair. Course may		
CCIS 803	Research/Design Project in Systems	3 Credits
Prerequisites: CCIS 672 and	Software/Hardware	
CCIS 805	Research/Design Project in Data Base	3 Credits
Prerequisite: CCIS 674	Research/Design Project in Data Dase	5 creats
CCIS 807	Research/Design Project in Distributed	3 Credits
	Systems/Networking	
Prerequisite: consent of ins		
CCIS 809	Research/Design Project in Software Engineering	3 Credits
Prerequisite: CCIS 691.		
CCIS 811	Research/Design Project in Artificial Intelligence	3 Credits
Prerequisite: CCIS 675.		
CCIS 815	Research/Design Project in Information Systems	3 Credits
Prerequisite: CCIS 721.		
CCIS 821	Thesis Research	3 Credits
CCOL 104H	The American Black Woman sional nature of life of black women in North America from 1619 to the pres	2 Credits
	of how black women's lives have been shaped by American systems.	ent. This conoquium provides
CCOL 106H	Themes in Fiction of the American Diaspora	2 Credits
	significant themes in the literature of Africa and the African Diaspora (re the Atlantic slave trade dominated).	(that is, for purposes of this
CCOL 112H	Moral Problems in Contemporary Society	2 Credits
Consideration of current issues	s in biology and medicine which require ethical decisions.	
CCOL 200H	College Campus Culture	2 Credits
Exploration of the social, emoti	onal and intellectual behaviors which are transmitted and formed throughou	it college matriculation.
CCOL 205H	Southern Writers	2 Credits
	d fact in representative works by and about Southern writers, with conce	
twentieth-century works.	in fact in representative works by and about southern writers, with conce	entration on nineteentii- and
CCOL 302H	Dynamics of Leadership	2 Credits
Opportunity to explore leaders	hin qualities and styles	
CCOL 402H		2 Cradita
The aspirations, accomplishme	Black Self-Concepts ents, and progress of African Americans against the historical background of	2 Credits W.E.B. DuBois' Souls of Black
Folk.	Introduction to Device Obibility and Distance	2 Car 1:4-
CECE 200	Introduction to Early Childhood Education	3 Credits
practice. Emphasis is on the ro minority children. Course con	wide overview of early childhood education (preschool thru grade 5) as pulle and function of early childhood education (ECE) programs in providing a latents include an introduction to historical and contemporary issues, pione acher Education or Educational Studies.	earning foundation for urban,
CECE 206	Foundations of Mathematics for Teachers	3 Credits
This course extends candidat	es' content proficiency, conceptual understanding of numbers, numeration	
concepts of algebra, geometry, will be interpreted through th	probability, statistics, and measurement. The presentation of these principle ne National Council of Teachers of Mathematics (NCTM) standards in part and making connections to the real world. <i>Prerequisite</i> : Admission to Teac	es and aspects of mathematics cicular standards on problem

CECE 212	Pre-Professional Laboratory	1 Credit
	notential teacher education candidates seeking admission to Early Cl	
varied educational institutions that sup	port the schooling process (e.g., museums, science centers, and oth rning hours as they complete course content. Co-requisites : CEDC 262	er community resources).
CECE 213	Practicum I (Observing and Exploring)	2 Credits
potential candidates to teachers, learner	or potential teacher education candidates. The practicum provides e s, and the school community through processes of observing and expl- that strengthen skills in writing and critical observations. <i>Prerequis</i>	experiences that introduce oring. Course assignments
CECE 300	Literacy in Early Childhood	6 Credits
Candidates learn to provide a developr needed to teach reading to the prescho	nature of the reading process and emergence of reading readiness nentally appropriate environment for reading to begin. The course ol, kindergarten, first-grade, and second-grade student. A field com 'eacher Education or Educational Studies.	focuses on the strategies
CECE 302	Child Development	3 Credits
theories of child development. Facilitate attention on cultural elements which inf appreciation of the interdependence of c	loration of how children learn and develop, of myriad influences on ch s candidates' development of strategies which promote optimal learn luence the development of children in urban schools and communitie cognitive, physical, and affective domains in the overall development of dmission to Teacher Education or Educational Studies.	er growth. Focuses special es. Guides candidates to an
CECE 313	Practicum II	2 Credits
	nt of teacher education candidates' knowledge and understanding of awareness of the foundational underpinnings that shape contempor cation.	
CECE 314	Creative Development	4 Credits
methodology, culturally appropriate per	of and experiences in application of instructional methodologies. Emplagogy, integration of creative activities and on assessment. Designed use of a variety of media and explore potentials in creative arts. $P_{\rm c}$	ed to offer candidates the
CECE 316	Practicum III	3 Credits
Experiences are provided which promot	onal process and skills, resources, knowledge and interactions that e candidates' awareness of the importance of developing and nurturi Candidates are guided to use their specific content knowledge to es eacher Education.	ing family relationships to
CECE 404	Early Childhood Curriculum and Methods	3 Credits
education. Candidates also examine teac	gins, philosophy, organization, and implementation of curriculum m hing methods and materials used during the early years, and principle : Admission to Teacher Education or Educational Studies.	
CECE 405	Preschool Program Development	3 Credits
	l structure, aims, purposes, and variety of preschool educational prant and program scheduling. The laboratory component allows students t nission to Educational Studies.	
CECE 415	Methods of Teaching Reading and Writing	3 Credits
Candidates learn to promote reading as	and attitudes necessary for effective organization and implementation an informative, rewarding, and essential component of education. The reading and a laboratory experience in which candidates practice cation.	e course includes a review
CECE 426	Integrated Teaching of Elementary Mathematics and Science	3 Credits
scientific and mathematical knowledge, research and theory in the field of math	instructional technology, and a school-based practicum to help pre-se skills, and dispositions needed to teach science and mathematics in and science instruction and assessment and emphasizes culturally ap equisite: Admission to Teacher Education.	n grades P-5. It examines
CECE 444	Pre-Service Teaching	13 Credits
supervision of state-certified teachers. T and skills gained in major courses. CEDC attend the campus-based reflective set	nces with children, preschool to grade five, in approved educational Through daily work and other interactions, the candidate integrates a 4444 is a full-time field experience lasting sixteen weeks. The pre-ser minars once per week and other teaching-related workshops and rses with required grades; passing scores on the GACE Basic Sk tions; acceptable interview.	nd utilizes the knowledge vice teacher is required to activities. <i>Prerequisites</i> :

CECE 452	Integrated Teaching of Social Studies and Language Arts	3 Credits
elementary school from an interdisciplin emphasis on knowledge required for t	e methods used in teaching the integration of Social Studies into nary, multicultural approach. Instruction in the elements of social studies he teaching of content skills and methods in the language arts an Prerequisite : Admission to Teacher Education.	lies and language arts, with
CECE 498	Developing Family and Community Relationships	3 Credits
connecting with the community. The co- education in the school's curriculum an	study of current and historical theory and practices in parent ed urse reviews parents' and other adults' involvement with schools an d the theoretical and practical aspects of parental involvement in th le that the community plays in shaping the development of childre	d covers the role of parent he educational setting. The
CECO 107	Introduction to Economics	3 Credits
include demand and supply analysis, th	to introduce students to the fundamental principles and concepts of e function of the markets in the allocation of resources, measuring problems such as unemployment, inflation, income distribution and e working of global market systems.	economic activities in the
CECO 250	Principles of Economics	3 Credits
	economics for students in departments which require only one se peconomic issues that impact the decision making within the U.S. econ	
CECO 250L/251L/252L	Economics Laboratory	0 Credit
Laboratory courses are taken along with	CECO 250, CECO 251, and CECO 252, respectively.	
CECO 251	Principles of Macroeconomics	3 Credits
available to the government, in the guis macroeconomic system. <i>Prerequisites</i> : CECO 252 A one-semester comprehensive study o	acome distribution and budget and trade deficits. Students will also se of fiscal and monetary policies, to influence the behavior patterns Minimum grades of "C" in CMAT 209 and CMAT 210. Principles of Microeconomics f the principles which govern production, consumption, and distrib	s of the components of the 3 Credits ution as well as the major
	c system. <i>Prerequisites</i> : Minimum grades of "C" in CMAT 209 and CM	
	Government and Business nent control and regulation of enterprises is the focus of this course. It, selected Supreme Court antitrust decisions, and current problems	
СЕСО 304Н	Contemporary Economic Problems	3 Credits
	theories, principles, and concepts. Emphasis is on identification of y those having significance for the economic well-being of black and ment for social science.	
CECO 308	Mathematical Economics	3 Credits
	cs to economics are covered. This course includes studies in calc plems used in this course come from the field of economics. <i>Prerequ</i>	
CECO 309	Introduction to Econometrics	3 Credits
	models in the study of economics relationships is covered in this consults and multi-equation models (offered within the a CBUS 313 and CBUS 314.	
CECO 315	Intermediate Macroeconomic Analysis	3 Credits
through the classical, Marxism, neoclass	of aggregate economic analysis. It traces the development and refin sical, and Keynesian schools. It enables students to analyze unempl- rrences. Prerequisites : Minimum grade of "C" in in CECO 251.	
CECO 316	Intermediate Microeconomic Analysis	3 Credits
The theory of the firm, the household, a Prerequisites : Minimum grade of "C" in	nd the market with applications to individual decision-making units CECO 252.	are covered in this course.
CECO 324	Economic Development	3 Credits
	ms of developed and developing economies. Covers the theory of eco alysis to evaluate development performance. <i>Prerequisites</i> : Minimun	

CECO 325	Comparative Economic Systems	3 Credits
	omparative systems. The course includes an analysis of the effection of growth patterns and fidelity to ideology. <i>Prerequisites</i> : Minimum	
CECO 335	International Trade	3 Credits
	commercial relations between nations. Among the topics covered are plicies. <i>Prerequisites</i> : Minimum grades of "C" in CECO 251 and CECO 2	
CECO 343	Public Finance	3 Credits
	at the federal, state, and local levels. Topics include government of ons, debt management, public borrowing, and fiscal policies for econ <i>erequisites</i> : CECO 315 and CECO 316.	
CECO 357	Economic History of the United States	3 Credits
the economic effect of slavery, post-C	torical periods in the United States. Topics include agricultural and in ivil War agrarian revolution, development of manufacturing and Depression, the World Wars, and the recent trends.	
CECO 362	Money and Banking	3 Credits
	money. Explores the relationship of money to prices, the role o he history of monetary policy in the United States. Prerequisites : Mini	
CECO 365	Economics of Labor	3 Credits
Consideration of labor as an economic f labor organizations, labor market discr Minimum grades of "C" in CECO 251 and	factor. Covers wages, labor force participation, employment and une rimination and public policies (offered within the Atlanta Universi CECO 252.	mployment, the growth of ity Center). <i>Prerequisites</i> :
CECO 369	Urban Economics	3 Credits
these decisions on urban growth and the	n the economics of urban areas: (1) the economics of the location dec he real estate market; (2) evaluation of transportation and other s prerequisites : Minimum grades of "C" in CECO 251 and CECO 252.	
CECO 372	History of Economic Doctrines	3 Credits
Survey of economic thought from ancient	t times to the present. <i>Prerequisites</i> : Minimum grades of "C" in CECO	251 and CECO 252.
CECO 470	Research Methodology/Senior Thesis	3 Credits
	onducting social science research, including defining the problem t empirical analysis. All economics majors are required to write a Sen artment chair.	
CECO 490	Independent Study	0-3 Credits
	aculty member, who agrees to work with the student, to meet specific area, a research project, teaching economics in high school or a comb isite : Approval of the department chair.	
CECO 495	Cooperative Education	0-3 Credits
	fit or nonprofit public or private organization. Students are expected the select organization. Prerequisite : Approval of the department ch	
CEDC 199	Pre-Professional Seminar	3 Credits
This course provides intensive instructions strategies will include both generic and s	on in the concepts, strategies, and content covered on the GACE Ba subject matter test-taking strategies.	sic Skills assessments. The
CEDC 262	Educational Technology	3 Credits
hands-on training with applications inc	variety of computer applications and technological tools used in e cluding word processing, Internet, spreadsheet, database, presentati levelopment of websites and electronic portfolios. This course is desi mpetency Requirement.	ion, and digital technology
CEDC 303	Human Relations	3 Credits
	udents to enhance their skills in interpersonal relationships. The co e quality of human relations between various groups. Prerequisite :	
CEDC 305	Presentation Skills	3 Credits
areas. Through closed-circuit video pre-	ns in which students practice the skills needed for effective oral pr sentations, students examine situations encountered by teachers, so ad group leaders. Prerequisite: Admission to Educational Studies.	

CEDC 260	Educational Macaurament	2 Cuadita
CEDC 360	Educational Measurement	3 Credits
	tudy of statistical concepts and terminology for education. Students ch as CAT and ITBS. The course explores test construction, sele	
interpretation of test results to pupils a	nd parents. This course is designed to provide experiences in test tal	
and interpretation of results. <i>Prerequisi</i>		2 Caradita
CEDC 408	Multicultural and Global Education	3 Credits
	on candidates to concepts, principles, practices, and implications of the social justice dimension of multicultural education and to can	
	jectives in urban schools and communities. <i>Prerequisite</i> : Admissio	
CEDC 492	Cooperative Education Experience	9-12 Credits
	s candidates spend a full semester (at least 12 weeks) working in a	
	areer goal. Experiences are supervised and monitored by a Universi ed by a weekly seminar and require that candidates submit evaluat	
	Admission to Educational Studies and acceptable recommendations	and interviews (course is
completed during the last semester).	In day on days Charles	1.2.0
CEDC 499	Independent Study on and investigation of a particular topic, issue, or problem in the fit	1-3 Credits
	students conduct in-depth studies of specific problems and produce	
	cific activities as follows: one credit hour requires students to attend	
	credit hours may include attendance at four seminars. <i>Prerequisi</i> val of the supervising professor, and minimum 2.5 GPA.	tes: Admission to Teacher
CEDF 211	Foundations of Education	3 Credits
	the profession of teaching from an urban context. It examines the pl	
sociological roots of basic questions and Must be admitted to Teacher Education of	d possible solutions in the field of American education and, specifica	ally, in urban communities.
CEDS 425	Introduction to Exceptional Education	3 Credits
	idents to the characteristics and education of individuals with disabi	
Teacher Education or Educational Studie		1
CEGR 101	Introduction to Engineering	3 Credits
	sion and various branches of engineering utilizing audio-visual ma cories, emphasis on professionalism and ethics, engineering solutions,	
information, engineering estimations an	d approximations, dimensions, units and conversions with introducti	
electrical theory and engineering econor		
CEGR 102	Introduction to Engineering Design ess and design concepts; applications to design problems in the variou	2 Credits
practical design assignments. Prerequis	ite: CMAT 105.	
CEGR 110	Engineering Computer Graphics	3 Credits
	d visual communication including freehand sketching, engineering de interpretation of drawings, projection standards and specification	
CEGR 201	Electrical Circuit Analysis	3 Credits
	ts to analyze basic circuits and to understand more advanced circuits	
	voltage and current sources (using Kirchhoff's laws, mesh and nodal a ter simulation using PSPICE software). Prerequisites : CMAT 112, CPH	
CEGR 211	Engineering Statics	3 Credits
Study of the elements of statics in two a	nd three dimensions using vector algebra, laws of equilibrium applie	
and structures, friction, centroids. Prere		1
CEGR 311	Engineering Dynamics	3 Credits
	ar motion of particles, kinematics of rigid bodies in plane motion, l ciples) of particles, systems of particles, and rigid bodies in plane m	
211.		,
CEGR 314	Matlab/Labview for Engineers	3 Credits
Application of Matlab/Labview techni- problems. <i>Prerequisites</i> : CMAT 112, CM	ques to various engineering problems including numerical meth AT 212.	ods tor solving nonlinear
CENG 105	College Composition I	3 Credits
	velopment of college-level writing skills. In CENG 105, students wri sentence and paragraph development, along with how purpose and au	
	ontinue to work on multi-paragraph themes, including the persuasi	
paper. <i>Prerequisite</i> : A minimum grade o		-

CENG 105H/106H	College Composition I & II	3 Credits ea.
-	s of traditional and contemporary writers. CENG 105 includes basic	
106 focuses on the development of a	critical research project. Includes class discussion, debate, and ind isfies General Education Core requirement for College Composition.	
CENG 106	College Composition II	3 Credits
learning the importance of thesis, topic s the idea. During CENG 106, students co	velopment of college-level writing skills. In CENG 105, students wri sentence and paragraph development, along with how purpose and at ontinue to work on multi-paragraph themes, including the persuasi uired for each course. Prerequisite : CENG 105 with a minimum fin as a requirement for exiting CENG 106.	idience control the focus of ive essay and the research
CENG 201	Introduction to World Literature I	3 Credits
and philosophical antecedents of twen	rs. Selected world masterpieces, with emphasis on Western civilizat tieth-century United States culture. Introduces concepts and vocabu ENG 201 explores literature from the beginnings to the Renaissanc	ulary required for reading,
CENG 201H or CENG 202H	Introduction to World Literature I or II	3 Credits ea.
	edieval, Renaissance, and modern worlds. Works from several culture self. Satisfies General Education Core requirement for literature.	s and periods suggest ways
CENG 202	Introduction to World Literature II	3 Credits
and philosophical antecedents of twen	rs. Selected world masterpieces, with emphasis on Western civilizat tieth-century United States culture. Introduces concepts and vocabu ENG 202 explores literature from the Renaissance to the present. Pre	lary required for reading,
CENG 210	Literary Forms	3 Credits
	g literature and writing about literature and includes the study of ge ation. This course is prerequisite to other major courses in English.	enre, rhetorical and literary
CENG 231	Sophomore Seminar	2 Credits
Opportunities for majors to acquire care	er preparation and additional academic enrichment.	
CENG 311	Advanced Grammar and Composition	3 Credits
An advanced course in expository, de mechanics.	sscriptive, persuasive, and narrative writing, with emphasis on g	rammar, punctuation, and
CENG 313	Survey of Major British Writers I	3 Credits ea.
	s, and philosophies represent major stages in the literature of Great issance and includes writers such as Chaucer, Shakespeare, and Milton	
CENG 314	Survey of Major British Writers II	3 Credits
A study of authors whose lives, writings Restoration to the present and includes	, and philosophies represent major stages in the literature of Great Bi writers from Dryden to Eliot.	itain. CENG 314 covers the
CENG 315	Survey of Major United States Writers I	3 Credits
	s in the United States from the eighteenth century to the present. Emerson, Irving, Poe, and Hawthorne, as well as early Native Amer	
CENG 316	Survey of Major United States Writers II	3 Credits
	in the United States from the eighteenth century to the present. CEN tman, Frost, Wright, Faulkner, Brooks, and Morrison are included.	G 316 covers the literature
CENG 318	Colloquium	3 Credits
An exploration of selected authors and li	terary works depending on the interests of faculty and students in the	department.
CENG 320	Renaissance Literature	3 Credits
A survey of major genres, authors, and Wyatt, Spenser, Marlowe, Kyd, Bacon, Do	l social and philosophical changes in sixteenth-century England. In onne, and Johnson.	cluded are writers such as
CENG 321	The Romantic Period	3 Credits
A study of general characteristics of the Keats along with lesser known Romantic	period and its intellectual and cultural focus. Blake, Wordsworth, Co is are included.	leridge, Byron, Shelley, and
CENG 322	The Victorian Period	3 Credits
A study of major essayists, novelists, pla	ywrights, and poets from 1832 to 1901.	
CENG 331	Junior Seminar	2 Credits
Opportunities for majors to acquire care	er preparation and additional academic enrichment.	

CENG 340	Introduction to Fiction Writing	3 Credits
This class introduces students to the character, and conflict. (Offered every	writer's craft, with emphasis on the analytical study of fiction, narra other fall semester)	tive strategies, diction, tone,
CENG 341	Introduction to Poetry Writing	3 Credits
	h reading, writing, analysis, and peer critiques. Students study diffe produce a number of original poems in this class. (Offered every other	
CENG 342	Introduction to Drama Writing	3 Credits
available to the playwright. Through t elements of playwriting. Students con other fall semester)	process of playwriting. The emphasis is on the exploration of a ra the completion and discussion of a series of writing exercises the cl npleting this course will craft at least one ten-minute play and one	ass will examine the various
CENG 343	Introduction to Creative Nonfiction Writing	3 Credits
This course focuses on the study of the create a personal essay of their own. (C	he personal essay. Students will study and analyze the essays of pr Offered every other fall semester)	ofessional writers as well as
CENG 350	Technical Writing	3 Credits
	s for technical communication. English 350 covers the basic forms o ions. <i>Prerequisite</i> : Grade of "C" or better in CENG 105 and CENG 106.	
CENG 357	Folk Literature	3 Credits
	ng folk literature and the comparison of various ethnic groups. Both mes, fairy tales, superstitions, legends, and popular sayings.	oral and written literature is
CENG 358	Southern Fiction and Folk Literature	3 Credits
A study of representative works of S southerners. Emphasis is on creative w	outhern writers, with concentration on nineteenth- and twentieth- vorks published after the Civil War.	century works by and about
CENG 397	Independent Study and Research	3 Credits
	guided research on an author, era, or issue in literary studies. Depe o reflect their particular interests. This course is a good choice for s	
CENG 409	Shakespeare	3 Credits
A study of representative plays, include	ing histories, tragedies, romances, and comedies.	
CENG 412	Fiction Writing Workshop	3 Credits
Students produce three pieces of fictio least one piece of publishable fiction. (0	n for classmates to analyze in this advanced course. Emphasis in this	class will be on producing at
CENG 413	Autobiography and Biography	3 Credits
	revious or simultaneous study in literature, history, and culture. For	
autobiography and biography as genre		cus is on the development of
cence autobiography and biography as genre		cus is on the development of 3 Credits
CENG 414 Advanced study of the process of playw	s in the United States. Drama Workshop writing in which students will produce at least two plays and participa	3 Credits
CENG 414	s in the United States. Drama Workshop writing in which students will produce at least two plays and participa	3 Credits
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CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl	s in the United States. Drama Workshop writing in which students will produce at least two plays and participatester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay	3 Credits te in the analyzing of student 3 Credits s and participate in analyzing
CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl semester) CENG 416 Students will learn the skills of editir	s in the United States. Drama Workshop writing in which students will produce at least two plays and participa ester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay hasis in this class will be on producing at least one publishable essay	3 Credits te in the analyzing of student 3 Credits s and participate in analyzing . (Offered every other spring 3 Credits licit, select, edit, and publish
CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl semester) CENG 416 Students will learn the skills of editin creative works from students in the A	 in the United States. Drama Workshop writing in which students will produce at least two plays and participatester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay has in this class will be on producing at least one publishable essay Editing and Publishing: The CAU Review and publishing as well as working with writers. Students will so 	3 Credits te in the analyzing of student 3 Credits s and participate in analyzing . (Offered every other spring 3 Credits licit, select, edit, and publish
CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl semester) CENG 416 Students will learn the skills of editin creative works from students in the A (Offered every other spring semester) CENG 417	 In the United States. Drama Workshop writing in which students will produce at least two plays and participatester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay hasis in this class will be on producing at least one publishable essay Editing and Publishing: <i>The CAU Review</i> ng and publishing as well as working with writers. Students will so Atlanta University Center (AUC) in Clark Atlanta University's literary Methods of Teaching English in Secondary Schools logy and materials used in the teaching of composition and literation 	3 Credits te in the analyzing of student 3 Credits s and participate in analyzing c (Offered every other spring) 3 Credits licit, select, edit, and publish magazine The CAU Review. 3 Credits
CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl semester) CENG 416 Students will learn the skills of editin creative works from students in the A (Offered every other spring semester) CENG 417 A study of recent trends in methodo	 In the United States. Drama Workshop writing in which students will produce at least two plays and participatester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay hasis in this class will be on producing at least one publishable essay Editing and Publishing: <i>The CAU Review</i> ng and publishing as well as working with writers. Students will so Atlanta University Center (AUC) in Clark Atlanta University's literary Methods of Teaching English in Secondary Schools logy and materials used in the teaching of composition and literation 	3 Credits te in the analyzing of student 3 Credits s and participate in analyzing c (Offered every other spring) 3 Credits licit, select, edit, and publish 7 magazine The CAU Review. 3 Credits
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CENG 414 Advanced study of the process of playw plays. (Offered every other spring seme CENG 415 This is an advanced study of the perso classmates' personal non-fiction. Empl semester) CENG 416 Students will learn the skills of editin creative works from students in the A (Offered every other spring semester) CENG 417 A study of recent trends in methodo especially for prospective English teach CENG 418 An introduction to the study of lang	 In the United States. Drama Workshop writing in which students will produce at least two plays and participatester) Creative Nonfiction Workshop nal essay. Students in this class produce at least three personal essay hais in this class will be on producing at least one publishable essay Editing and Publishing: <i>The CAU Review</i> ng and publishing as well as working with writers. Students will so atlanta University Center (AUC) in Clark Atlanta University's literary Methods of Teaching English in Secondary Schools logy and materials used in the teaching of composition and literathers. History of the English Language guage: the nature and function of language, and the historical characteric context of the second and the second an	3 Credits ite in the analyzing of student 3 Credits s and participate in analyzing (Offered every other spring) 3 Credits licit, select, edit, and publish v magazine The CAU Review. 3 Credits ure. This course is designed 3 Credits

CENG 420	Poetry Workshop	3 Credits
Students produce five poems for classm publishable poem. (Offered every other s	ates to analyze in this advanced course. Emphasis in this class will be pring semester)	e on producing at least one
CENG 431	Senior Seminar	2 Credits
Opportunities for majors to acquire care	er preparation and additional academic enrichment.	
CENG 459	African-American Literature I	3 Credits
	n literature, with emphasis on the historical evolution and treatmen se covers colonial African-American literature to the Harlem Renaissa	
CENG 460	African-American Literature II	3 Credits
	n literature, with emphasis on the historical evolution and treatmen se covers the period from the Harlem Renaissance to the present.	t of representative poetry,
CENG 461	Modern Literature	3 Credits
	nd twenty-first century writers. This course emphasizes readings an , Russia, the United States, and the Caribbean.	d discussions of significant
CENG 463	Medieval English Literature	3 Credits
A study of representative works from the	e Old and Middle English periods with special emphasis on Beowulf an	d Chaucer.
CENG 468	Internship	3 Credits
An opportunity for junior and senior Eng	l larger mean p glish majors to do supervised career-related internships on or off cam e Department of English prior to enrollment.	
CFAS 201	Creative Fashion Presentation	3 Credits
Introduces students to the complexities Students learn about brand images for	of fashion presentations through the examination of industry clinic ashion magazines and apparel and the necessity of working on a co udents interested in fields of brand identity, marketing, styling and cru	s, shows, and publications. llaborative team to solve a
CFAS 210	Principles of Fashion Industry	3 Credits
Students are introduced to the fashion	industry within the context of its dynamic global and domestic fas riew of the fashion industry while incorporating the principles of f	
CFAS 220	History of Costume	3 Credits
Chronological study of costumes from a	History of Costume ncient Egyptian to 20th-century styles through a visual history of fas cause and effect of costumes in each period.	
Chronological study of costumes from a	ncient Egyptian to 20th-century styles through a visual history of fas	
Chronological study of costumes from a art form, and climates are related to the CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de	ncient Egyptian to 20th-century styles through a visual history of fas cause and effect of costumes in each period. Textiles nion and interiors industry. Study of natural and man-made fibers, relop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa	A credits , yarns, and weaves, fancy ld. The course includes an
Chronological study of costumes from a art form, and climates are related to the CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile	ncient Egyptian to 20th-century styles through a visual history of fas cause and effect of costumes in each period. Textiles nion and interiors industry. Study of natural and man-made fibers, relop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa	A credits , yarns, and weaves, fancy ld. The course includes an
Chronological study of costumes from a art form, and climates are related to the CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi	ncient Egyptian to 20th-century styles through a visual history of fas rause and effect of costumes in each period. Textiles nion and interiors industry. Study of natural and man-made fibers, relop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa rs.	A credits yarns, and weaves, fancy d. The course includes an bric performance and the 3 Credits ale fashion figure. Students
Chronological study of costumes from a art form, and climates are related to the CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi learn to utilize color, proportion, fabric	ncient Egyptian to 20th-century styles through a visual history of fas rause and effect of costumes in each period. Textiles nion and interiors industry. Study of natural and man-made fibers, relop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa cs. Fashion Illustration cate fashion design ideas. Students learn to draw the male and fema	A credits yarns, and weaves, fancy d. The course includes an bric performance and the 3 Credits ale fashion figure. Students
Chronological study of costumes from a art form, and climates are related to the r CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi learn to utilize color, proportion, fabric CART 102, and CART 201. CFAS 240 The course provides the student the of introduction of basic sewing technique	ncient Egyptian to 20th-century styles through a visual history of fas cause and effect of costumes in each period. Textiles nion and interiors industry. Study of natural and man-made fibers, yelop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa cs. Fashion Illustration cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles.	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the
Chronological study of costumes from a art form, and climates are related to the r CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi learn to utilize color, proportion, fabric CART 102, and CART 201. CFAS 240 The course provides the student the of introduction of basic sewing technique	 Ancient Egyptian to 20th-century styles through a visual history of fast cause and effect of costumes in each period. Textiles Anoin and interiors industry. Study of natural and man-made fibers, yelop a familiarity with the application of fabrics in the apparel field is, design applications, and finishing and emphasis is placed on factor. Fashion Illustration Cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles. Apparel Construction I poportunity to develop skills and techniques required for apparel s, understanding construction terminology, selecting proper material 	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the
Chronological study of costumes from a art form, and climates are related to the CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi learn to utilize color, proportion, fabric CART 102, and CART 201. CFAS 240 The course provides the student the of introduction of basic sewing technique particular garment/apparel detail or pro CFAS 250 The course examines the application of the and retail patterns play in display, and	 Ancient Egyptian to 20th-century styles through a visual history of fast cause and effect of costumes in each period. Textiles Time and interiors industry. Study of natural and man-made fibers, velop a familiarity with the application of fabrics in the apparel fiels, design applications, and finishing and emphasis is placed on fact. Fashion Illustration Cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles. Apparel Construction I Sportunity to develop skills and techniques required for apparel is, understanding construction terminology, selecting proper materiact, applying design principles and operating sewing equipment. 	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the rials and techniques for a 3 Credits e that fixtures, presentation
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Chronological study of costumes from a art form, and climates are related to the r CFAS 230 An introduction to textiles used in fash weaves, finishes and dyes. Students de analysis of the use and care of textile customer's role in the utilization of fabri CFAS 237 Fundamentals of rendering to communi learn to utilize color, proportion, fabric CART 102, and CART 201. CFAS 240 The course provides the student the of introduction of basic sewing technique particular garment/apparel detail or pro CFAS 250 The course examines the application of the and retail patterns play in display, and enhance store image and maximize sales CFAS 310 Fundamentals of basic principles of fla Prerequisite : CFAS 240 or permission of CFAS 314	ncient Egyptian to 20th-century styles through a visual history of fas rause and effect of costumes in each period. Textiles ion and interiors industry. Study of natural and man-made fibers, velop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa cs. Fashion Illustration cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles. Apparel Construction I poportunity to develop skills and techniques required for apparel is, understanding construction terminology, selecting proper materi- ject, applying design principles and operating sewing equipment. Visual Merchandising asic design principles in visual merchandising. Students learn the role also examine how to utilize visual merchandising concepts with cre- Prerequisites : CART 101 and CART 102. Flat Pattern t patternmaking are covered, including slopers for collars, sleeves, instructor. Promotion Planning Strategy	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the rials and techniques for a 3 Credits e that fixtures, presentation eative design to potentially 3 Credits bodices, skirts, and pants. 3 Credits
Chronological study of costumes from a art form, and climates are related to the solution of the second state of the second st	ncient Egyptian to 20th-century styles through a visual history of fas rause and effect of costumes in each period. Textiles ion and interiors industry. Study of natural and man-made fibers, yelop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa cs. Fashion Illustration cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles. Apparel Construction I poportunity to develop skills and techniques required for apparel s, understanding construction terminology, selecting proper materi ject, applying design principles and operating sewing equipment. Visual Merchandising asic design principles in visual merchandising. Students learn the role also examine how to utilize visual merchandising concepts with cre- <i>Prerequisites</i> : CART 101 and CART 102. Flat Pattern t patternmaking are covered, including slopers for collars, sleeves, instructor.	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the rials and techniques for a 3 Credits e that fixtures, presentation eative design to potentially 3 Credits bodices, skirts, and pants. 3 Credits rends with emphasis on the priate strategies. Students
Chronological study of costumes from a art form, and climates are related to the solution of the second state of the second st	ncient Egyptian to 20th-century styles through a visual history of fas rause and effect of costumes in each period. Textiles ion and interiors industry. Study of natural and man-made fibers, yelop a familiarity with the application of fabrics in the apparel fie s, design applications, and finishing and emphasis is placed on fa cs. Fashion Illustration cate fashion design ideas. Students learn to draw the male and fema and methods for making quick sketches to illustrate different styles. Apparel Construction I poportunity to develop skills and techniques required for apparel s, understanding construction terminology, selecting proper materi- iect, applying design principles and operating sewing equipment. Visual Merchandising asic design principles in visual merchandising. Students learn the role also examine how to utilize visual merchandising concepts with cre- Prerequisites : CART 101 and CART 102. Flat Pattern t patternmaking are covered, including slopers for collars, sleeves, instructor. Promotion Planning Strategy ses of fashion marketing channels by analyzing sources and market tri d the necessity of identifying target markets and developing appro-	3 Credits , yarns, and weaves, fancy Id. The course includes an bric performance and the 3 Credits ale fashion figure. Students Prerequisites : CART 101, 3 Credits construction through the rials and techniques for a 3 Credits e that fixtures, presentation eative design to potentially 3 Credits bodices, skirts, and pants. 3 Credits rends with emphasis on the priate strategies. Students

CFAS 325	Wardrobe Styling and Consulting	3 Credits
	e principles for conducting wardrobe assessments, clothing clusters,	
various personality types that includes s course will cover hair, make-up and skin	tudy of color, line, and visual principles in addition to analyzing the l -care.	human figure and face. The
CFAS 340	Apparel Construction II	3 Credits
opportunity to advance his knowledge	construction techniques and skills from Apparel Construction I. Th and skills by constructing selected garments. Techniques for lining pattern manipulation is addressed. <i>Prerequisite</i> : CFAS 240 Apparel Co	a garment are introduced.
CFAS 350	Fashion Accessory Design	3 Credits
	t identifies the industry's major components, products and proce dents have the opportunity to develop and design accessories such AS 210, CFAS 220, and CFAS 240.	
CFAS 360	Fashion Apparel Computer Aided Design (CAD)	3 Credits
	uter aided design software for the fashion industry. Through basic de reate fashion flats, illustrations, textile designs and merchandise pro	
CFAS 401	Retail Mathematics	3 Credits
into developing and mastering mathe	and practice of buying and selling apparel relative to a career in the ematical techniques (gross margin, buying and selling methods, purse will cover operating expenses and how they affect gross margin	markup calculation, and
CFAS 402	Fashion Buying and Planning	3 Credits
theory and practice of buying (budgeti	lanning merchandise by department for stores. This course is an exan ing, marketing objectives, merchandise assortment planning, exper rofit) apparel. <i>Prerequisites</i> : CMAT 103 and CMAT 104, CFAS 314, an	nse control, and inventory
CFAS 410	Fashion Design Senior Collection	3 Credits
	udents to apply skills, creativity and execution in the developmen nstruction and portfolio preparation by applying design skills. To pro 102, CART 201, CFAS 240, CFAS 310.	
CFAS 420	Fashion Show Production	3 Credits
development of advanced planning requ merchandise selection, advertising and	fashion show featuring student designs and methods of promo- nired for a special event. Students receive committee assignments ar publicity of the event. Other topics include budgeting, floor plans, st I sound, choreograph routines and participate in the production of a f ructor.	nd assist in model training, aging and designing flyers,
CFAS 425	Case Studies in Fashion Marketing	3 Credits
This course examines the merchandising	analyze decision-making in arriving at independent solutions to ty objectives of the fashion industry through the use of the case study n are evaluated for weighing of factual data, disciplined thinking and rat	nethod by examining actual
CFAS 430	Trend Forecasting	3 Credits
	he market that lead to the development of and planning merchandis es is a key component of the course by analyzing videos and fashio fashion business for growth and profit.	
CFAS 440	Retail Management	3 Credits
globalization, multiculturalism, ethics, re field of retailing is examined within don	aspects of retailing, this course examines the functions of ma cycling, promotion, and customer service in brick-and-mortar retailir nestic and foreign markets thereby emphasizing the interrelationship urse focuses on the analytical skills and industry specifications req 5 220 and CFAS 250.	ng and off-site retailing. The p of the major facets of the
CFAS 450	Fashion Design Portfolio	3 Credits
a portfolio for entry into the industry th	ated with fashion presentations, the components of design, fabric and rough the development of a small collection while learning advanced cified career goal. <i>Prerequisites</i> : Senior status. This is the capstone co	l rendering techniques and
CFAS 480	Internship	3-18 Credits
participating in an on the job trainin occupations. Students can qualify for a	articipate in a supervised fashion industry work experience to incr g experience in specialty stores, department stores, design, adve n internship after the freshman year and may register for 3-6 cr nes and students can enroll in section 1-3. The internship is monit partment chair required.	ertising and other related redit hours each semester.

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CFAS 490	Fashion Merchandising Senior Seminar	3 Credits
	oroblems in the field. Students learn to analyze contemporary problem oral case analysis at the end of the course. This is the capstone cour	
CFLF 101	Elementary French I	3 Credits
utilization of the language in context. Th	nunication in French and a familiarity with a variety of Francoph e course includes a variety of media, including audio, video and the I nours per week and one (1) laboratory hour per week.	
CFLF 102	Elementary French II	3 Credits
utilization of the language in context. Th	nunication in French and a familiarity with a variety of Francoph e course includes a variety of media, including audio, video and the I nours per week and one (1) laboratory hour per week. Prerequisite : (nternet to complement the
CFLF 201	Intermediate French I	3 Credits
forging of a strong linguistic base. In add	Ils acquired in elementary French, with emphasis placed on commun ition to the variety of media utilized in elementary French, significan les, and films) are introduced throughout the course. Classes meet t eek. Prerequisite : CFLF 102.	tly more authentic cultural
CFLF 202	Intermediate French II	3 Credits
forging of a strong linguistic base. In add	lls acquired in elementary French, with emphasis placed on commun ition to the variety of media utilized in elementary French, significan les, and films) are introduced throughout the course. Classes meet t eek. <i>Prerequisite</i> : CFLF 201.	tly more authentic cultural
CFLF 307	Business French I	3 Credits
government requirements for business,	ractices in France and in Francophone countries. This course incl letter writing, transportation, insurance, accounting, and labor relation tive skills acquired in CFLF 201 and 202, Intermediate French I and I 12.	ons. It also seeks to expand
CFLF 308	Business French II	3 Credits
government requirements for business,	ractices in France and in Francophone countries. This course incl letter writing, transportation, insurance, accounting, and labor relation tive skills acquired in CFLF 201 and 202, Intermediate French I and I 22.	ons. It also seeks to expand
CFLF 311	Survey of French Literature I	3 Credits
	the essential works of French literature in prose, poetry, theatre a iterary movements from the Middle Ages to the present, which had d. <i>Prerequisite</i> : CFLF 202.	
CFLF 312	Survey of French Literature II	3 Credits
	he essential works of French literature in prose, poetry, theatre a iterary movements from the Middle Ages to the present, which had d. <i>Prerequisite</i> : CFLF 202.	
CFLF 331	French Pronunciation and Phonetics	3 Credits
	tion of French and the perfecting of a near-native French diction the s and audio texts. Prerequisite : CFLF 202.	nrough the aid of phonetic
CFLF 332	French Conversation	3 Credits
	g comprehension and oral expression by forcing the student to er os and discussing cultural topics. Emphasis will also be placed on w	
CFLF 341	Advanced French Grammar and Composition I	3 Credits
	ncy in spoken and written French and examines the most diffic Vritten and oral exercises include themes, translations, reports on nd CFLF 332.	
CFLF 342	Advanced French Grammar and Composition II	3 Credits
	ency in spoken and written French and examines the most diffic Vritten and oral exercises include themes, translations, reports on nd CFLF 332.	
CFLF 355	Intensive Reading in French Literature I	3 Credits
primary focus of the course. Students	ry analysis of various genres of French literature. Works of the two are required to have a general mastery of the French language a lo graduate work in French. Prerequisite : CFLF 341 or CFLF 342.	

CFLF 356	Intensive Reading in French Literature II	3 Credits
This course teaches techniques in litera primary focus of the course. Students	ry analysis of various genres of French literature. Works of the two are required to have a general mastery of the French language a lo graduate work in French. Prerequisite : CFLF 341 or CFLF 342.	entieth century will be the
CFLF 419	French Linguistics	3 Credits
	cientific study of language focusing on the analysis and description of und systems, meaning, and language change in society. <i>Prerequisite</i> :	
CFLF 431	Civilization of Francophone Africa	3 Credits
geographical, political and social issues	ench-speaking peoples of Africa from the colonial period until the p facing black Africa, even through the transitory postcolonial period, i prequisite: CFLF 332 or CFLF 341. (Recommended for majors and th	n preparation for in-depth
CFLF 434	Afro-French Novel	3 Credits
treat other outside literary influences, s	e African and Caribbean novel of French expression from its inception such as the Harlem Renaissance, surrealism and the Negritude mov mic literary genre. <i>Prerequisite</i> : CFLF 341 or approval of the instr Francophone, Africa).	ement, which significantly
CFLF 440	Directed Study	3 Credits
improve their language proficiency. Stud	oring in French to do more in-depth study and investigation of spec lents work under the close supervision of a professor who will presc epartment chair. Students must be able to work independently on 0 level courses.	ribe a plan-of-study which
CFLF 447	French Civilization I	3 Credits
impact on contemporary French society	rom its origin to the present. It delves into the social and political inst t. It will also provide a cursory view of artistic—architectural, music e ages. Prerequisites : CFLF 311 and CFLF 312.	
CFLF 448	French Civilization II	3 Credits
impact on contemporary French society	rom its origin to the present. It delves into the social and political inst . It will also provide a cursory view of artistic—architectural, music e ages. Prerequisites : CFLF 311 and CFLF 312.	
CFLF 451	Composition and Translation	3 Credits
writing different genres and in modifyir	rench grammar and syntax, written exercises, and free composition of writing styles to accommodate specific audiences and techniques instruction in stylistic features of writing that distinguish French fr ite: CFLF 332 or CFLF 341.	for promoting cultural and
CFLF 452	Explication de Texto	3 Credits
analysis of selected passages with refer	lysis that aims to prepare students for close textual reading and writin ences to biographical elements, sources of origins, literary meaning, itten reports in French. The course is conducted entirely in French.	authenticity, and aesthetic
CFLF 453	French Literature	3 Credits
The course is a study of the origins, development, and triumph of the Romantic Movement in France via the analysis of literary, historical, and critical texts. In particular, it examines the literary theories and manifestos, which influenced the literary production of this period and the manner in which such texts reveal the interaction between artistic expression and socio-political reality. By looking at more contemporary versions of these revolutionary modes of expression – in popular as well as "high" art – The course assesses the legacy of this important movement. <i>Prerequisites</i> : CFLF 447 and CFLF 448.		
CFLF 454	French Prose	3 Credits
influence of science – which begins to ac the "Realist" and "Naturalist" movement	ninance of the novel as a literary genre in the modern period. Special quire unprecedented authority at this point in history – on literary pr s. Perhaps even more important, the course presents how the objective g on writing. Students analyze not only literary texts of the period but alue in art? Prerequisite : CFLF 453.	oduction – in key works of es and discourse of science
CFLF 480	Senior Conference in French	3 Credits
graduates. Different assessment tools ar	dependent study designed to explore and remedy specific areas or re used to enhance students' content knowledge and productive skill rerequisite : Completion of all required courses for the major.	
CFLF 484	Travel-Study Seminar	3 Credits
	tudy in a foreign country under the guidance of faculty members. It is <i>equisite</i> : Departmental approval.	strongly recommended for

CFLS 101	Elementary Spanish I	3 Credits
utilization of the language in context. The	munication in Spanish and a familiarity with a variety of Fra ne course includes a variety of media, including audio, video and hours per week and one (1) laboratory hour per week.	
CFLS 102	Elementary Spanish II	3 Credits
utilization of the language in context. The	munication in Spanish and a familiarity with a variety of Fra ne course includes a variety of media, including audio, video and hours per week and one (1) laboratory hour per week. Prerequ	d the Internet to complement the
CFLS 201	Intermediate Spanish I	3 Credits
forging of a strong linguistic base. In add	ills acquired in elementary Spanish, with emphasis placed on co lition to the variety of media utilized in elementary Spanish, sign cles, and films) are introduced throughout the course. Classes i eek. Prerequisite : CFLS 102.	nificantly more authentic cultural
CFLS 202	Intermediate Spanish II	3 Credits
forging of a strong linguistic base. In add	ills acquired in elementary Spanish, with emphasis placed on co- lition to the variety of media utilized in elementary Spanish, sign cles, and films) are introduced throughout the course. Classes in eek. Prerequisite : CFLF 201.	nificantly more authentic cultural meet three (3) lecture hours per
CFLS 303	Spanish Pronunciation and Phonetics	3 Credits
	ation of Spanish and the perfecting of a near-native Spanish dic cos and audio texts. Prerequisite : CFLS 202.	ction through the aid of phonetic
CFLS 304	Spanish Conversation	3 Credits
	ning comprehension and oral expression by forcing the studen as and discussing cultural topics. Emphasis will also be placed on	
CFLS 307	Business Spanish I	3 Credits
Students will acquire the rudiments of analyze commercial texts. Sensitivity to	dents to basic business concepts while providing fundamental to some functional areas of business, examine the protocol of b and appreciation of cultural content and differences in the F conducted entirely in Spanish. <i>Prerequisite</i> : CFLS 202.	ousiness environments, read and
CFLS 308	Business Spanish II	3 Credits
practice in carrying out typical busines	007, Business Spanish I. It emphasizes the practical application ss transactions in Spanish, and writing business documents in siness entities in the Hispanic world are also integral parts of ir 307.	n Spanish. Translations and case
CFLS 315	Latin American Civilization	3 Credits
This course treats the geography, histor and CFLS 304.	ry, institutions, and cultural development of the Latin-American	n world. Prerequisites : CFLS 303
CFLS 325	Survey of Peninsular Literature I	3 Credits
The course includes a study of the outs Golden Age. <i>Prerequisite</i> : CFLS 315.	tanding works of major authors and the major literary moveme	ents from the Middle Ages to the
CFLS 326	Survey of Peninsular Literature II	3 Credits
The course includes a study of the outst to the present. <i>Prerequisite</i> : CFLS 315.	anding works of major authors and the major literary movemen	nts from the seventeenth century
CFLS 327	Survey of Latin American Literature I	3 Credits
	tive works of Latin American literature, including Afro-Hispan s. The second half covers the post-independence period to the p	
CFLS 328	Survey of Latin American Literature II	3 Credits
	atin American literature, including Afro-Hispanic literature. The independence eras. The second half covers the post-indep	
CFLS 335	Intensive Readings in Spanish Literature I	3 Credits
	emphasis on improving and reinforcing reading skills. Prerequi	<i>isite</i> : CFLS 304 or approval of the
instructor.		
CFLS 336	Intensive Readings in Spanish Literature II	3 Credits

CFLS 351	Composition and Translation I	3 Credits
writing different genres and modifying	ms in grammar and syntax, written exercises, and free composition writing style to accommodate specific audiences, techniques for pro- tion in stylistic features of writing that distinguish Spanish from Eng 304 or CFLS 335.	moting cultural and global
CFLS 352	Composition and Translation II	3 Credits
	ms in grammar and syntax, written exercises, and free composition	1. It features instruction in
writing different genres and modifying	writing style to accommodate specific audiences, techniques for pro- tion in stylistic features of writing that distinguish Spanish from Eng	moting cultural and global
CFLS 353	Spanish Literature of the Middle Ages	3 Credits
selections studied illustrate national tra	panish people through their literature of the twelfth, thirteenth, and its, or major facets of the Spanish people. Through reading these wor h literature and the people. Prerequisites : CFLS 325 and CFLS 326.	
CFLS 354	Literature of the Golden Age	3 Credits
The course is an analysis of conditions, readings from the Quixote and Novelas	which produced the Golden Age, with emphasis on the life and thoug Ejemplares. Prerequisite: CFLS 353.	ht of Cervantes. It includes
CFLS 391	Advanced Spanish Grammar and Composition I	3 Credits
pronouns, adjectives, adverbs, preposi	lvanced grammatical problems and stylistics, emphasizing the mas tions, and conjunctions. It also includes instruction in the formati ted entirely in Spanish. Prerequisites : CFLS 303 and CFLS 304.	
CFLS 392	Advanced Spanish Grammar and Composition II	3 Credits
pronouns, adjectives, adverbs, preposi	lvanced grammatical problems and stylistics, emphasizing the mas itions, and conjunctions. It also includes instruction in the formati- ted entirely in Spanish. Prerequisite : CFLS 391.	
CFLS 411	Latin American Literature	3 Credits
The course presents main trends of S commentaries, and class discussion. Pre	panish-American literature from the colonial to the contemporary p requisite: CFLS 315.	period. It includes lectures,
CFLS 415	Survey of Peninsular Civilization	3 Credits
impact on contemporary Spanish socie	rom its origin to the present. It will delve into the social and political in ty. It will also provide a cursory view of artistic - architectural, musi- ne Ages. Classes are conducted entirely in Spanish. Prerequisite: CFLS	cal and literary - as well as
CFLS 416	Survey of Latin American Civilization	3 Credits
	conomic, and cultural history of Latin America from pre-Columbian ti nerica in the development of Latin American civilization. Prerequisite	
CFLS 419	Spanish Linguistics	3 Credits
	ientific study of language with focus on the analysis and description ound systems, meaning, and language change in society. <i>Prerequisites</i>	
CFLS 422	Romanticism	3 Credits
	the Romantic Movements in Spain. Topics include the theories regardin versus indigenous Spanish Romanticism. Important precursors and nstructor.	
CFLS 425	Modernism	3 Credits
	major modernist writers of Latin America and selected modernist a of the parallel and divergent developments of modernism in Spain Rubén Darío. Prerequisite: CFLS 422.	
CFLS 440	Directed Study	3 Credits
language proficiency. The student work	's to do more in-depth study and investigation of special areas of in a under the close supervision of a professor who will prescribe a pla a advance) to be followed. Student must be able to work indep all required 300 level courses.	n of action (which must be
CFLS 447	Afro-Hispanic Literature I	3 Credits
the Afro-Hispanic literary canon. A varie and other narrative materials. There movements, and will allow students to	overview of the African Diaspora in Latin America, with special emph ety of literary forms will be treated and will include poetry, the novel, s will also be an articulation around three components: slavery, discuss the question of the Black Diaspora and the literary treatme 416 or approval of instructor. (Recommended for students interested	short stories, critical essays negrista and neo-negrista nt of race and identity and

CFLS 448	Afro-Hispanic Literature II	3 Credits
the Afro-Hispanic literary canon. A varie and other narrative materials. There movements, and will allow students to	overview of the African Diaspora in Latin America, with special emph ty of literary forms will be treated and will include poetry, the novel, s will also be an articulation around three components: slavery, discuss the question of the Black Diaspora and the literary treatmen 416 or approval of instructor. (Recommended for students interested	short stories, critical essays negrista and neo-negrista nt of race and identity and
CFLS 461	Explicación de Textos	3 Credits
analysis of selected passages with refer	lysis that aims to prepare students for close textual reading and writin ences to biographical elements, sources of origins, literary meaning, tten reports in Spanish. Class is conducted entirely in Spanish. <i>Prere</i>	authenticity, and aesthetic
CFLS 480	Senior Conference in Spanish	3 Credits
Different assessment tools will be used	nt study designed to explore and remedy specific areas of weakness to enhance the students' content knowledge and productive skills in t s. <i>Prerequisite</i> : Successful completion of all required courses for the r	he target language to meet
CFLS 484	Travel Study Seminar	3 Credits
Travel and independent study in a for majors and minors. <i>Prerequisite</i> : Appro	eign country under the guidance of responsible faculty members. S val by the department chair.	trongly recommended for
CHIS 201	U. S., Africa and the World History I	3 Credits
	ons between various continental peoples of Africa, Asia, Europe, as s, experiences and ideologies up to 1500. This course critically ana have shaped global society.	
CHIS 201H/202H	U. S., Africa, and the World History I and II	3 Credits ea.
relationship to social, economic, politic	ides an opportunity to analyze historical methodology and theories fi cal and geographic factors. The past is examined in regard to unde teraction between the continental peoples of Africa, North and South ment in history.	rstanding the present and
CHIS 202	U. S., Africa and the World History II	3 Credits
	ons between various continental peoples of Africa, Asia, Europe, and to the present. This course critically analyzes the social, economic,	
CHIS 211	U.S. History to 1865	3 Credits
This course covers the social, political American nationality. The first semester	, and economic development of American life with special emphas covers the period from 1492 to 1865.	is on the development of
CHIS 212	U.S. History since 1865	3 Credits
This course covers the social, political American nationality. The second semes	, and economic development of American life with special emphaster covers the period from 1865 to the present.	is on the development of
CHIS 317	Civil War and Reconstruction	3 Credits
This course critically examines the econ- the war and the Reconstruction period to	omic, social, and political causes of the Civil War. It also relates the so o present issues.	cial changes growing out of
CHIS 319	African-American History to 1877	3 Credits
	rican-Americans from their African societies, enslavement and trans oment of North American racism, the experiences of slavery, sectio	
CHIS 320	African-American History since 1877	3 Credits
5 1	African Americans from the Post-Reconstruction period to the pre lovement, and black contributions to American culture and society.	sent. Major topics include
CHIS 350	History of Africa to 1800	3 Credits
An historical survey of pre-colonial Afric politics.	can societies, from earliest times to 1800, emphasizing geography, so	viocultural institutions, and
CHIS 351	History of Africa since 1800	3 Credits
An historical survey of Africa from the 1 neo-colonialism, and contemporary issue	9th century to the present with special emphasis on colonialism, gro es of African nations amid globalization.	wth of African nationalism,
CHIS 355	United States in the Twentieth Century-Women	3 Credits
An historical analysis of the growth of the social aspects of the American experience	e United States as a world power in the twentieth century. It emphasi e.	zes economic, political, and

CHIS 360	American Social and Intellectual History	3 Credits
A study of the effect that ideas and intelle past and their impact on the daily life of t	ectual currents have on social life in modern America. Evaluation of he country.	thinkers of America's recent
CHIS 403	Historical Methods	3 Credits
A study of the sources utilized by historia	ans in their attempts to re-create the past. Research papers are requi	red.
CHIS 404	Early Modern Europe	3 Credits
Analysis of factors that produced mod revolution, the Enlightenment, and the ri	dern European civilization. Topics include the Renaissance, the se of nationalism.	Reformation, the scientific
CHIS 405	Modern Europe since 1815	3 Credits
A study of the social and political uphear the mass movements represented by soci	vals of the nineteenth century in Europe. Covers industrialization, nialism and fascism.	nationalism, democracy, and
CHIS 422	History of Georgia	3 Credits
A survey of the history of Georgia from c secondary education.	olonial times to the present of particular significance to prospective	teachers in elementary and
CHIS 433	History of Urban America	3 Credits
Examines the development of modern services, governmental structure, and pu		
CHIS 450	The Jim Crow South	3 Credits
	practiced in the southern region of the United States from Recons and document oral accounts of African-Americans who experienced	segregation.
CHIS 480/483	Independent Study	3 Credits ea.
A program of reading, research, and writ guidance of the instructor.	ting in which students engage in a critical examination of one or mo	re selected topics under the
CHIS 490	Senior Seminar	3 Credits
A required research and writing course f various historical themes and interpretat	or seniors in which students utilize primary sources and complete a tions introduced in earlier courses.	major paper integrating the
CHIS 491	Special Topics in Contemporary History	3 Credits
A study of the major forces and ideas as emphasis may vary from one semester to	well as social, political and economic developments in contemporation the next.	ary history. Special thematic
CHON 100H/102H	Freshman Honors Seminar	1 Credit ea.
Exploration of topics regarding adjustme Program students. Satisfies requirement	ent to the demands of University life. Special attention is devoted to p for First-Year Student Seminar.	problems peculiar to Honors
CHON 399H	Independent Study	1-6 Credits
	ic, outside the major, to be explored in depth under the supervision of exceed three (3) hours per semester, and cannot exceed six (6) h	
CHON 499H	Senior Thesis	2 Credits
Application of research methods to stu	dents' major area of concentration. They identify a research topic	from their major courses
	the senior thesis under the guidance of an instructor.	t from then major courses,
	the senior thesis under the guidance of an instructor. Methods of Teaching early Childhood Health and	3 Credits
develop a research design, and complete CHPE 404 This course is designed for candidates v source of information about the most re special needs, temporary and permane planning motor exploration, physical fit	the senior thesis under the guidance of an instructor. Methods of Teaching early Childhood Health and Physical Education who will be teaching physical education at the elementary school I cent trends and developments in physical education, addressing th nt adaptive strategies, program evaluation, safety procedures, eq mess, and as a resource for new games, stunts, dances, and fitness chnology integration and curriculum design will be emphasized.	3 Credits evel. The course provides a e inclusion of students with uipment selection, program s development. Pedagogical
develop a research design, and complete CHPE 404 This course is designed for candidates v source of information about the most re special needs, temporary and permane planning motor exploration, physical fit strategies, Multicultural approaches, teo	the senior thesis under the guidance of an instructor. Methods of Teaching early Childhood Health and Physical Education who will be teaching physical education at the elementary school I cent trends and developments in physical education, addressing th nt adaptive strategies, program evaluation, safety procedures, eq mess, and as a resource for new games, stunts, dances, and fitness chnology integration and curriculum design will be emphasized.	3 Credits evel. The course provides a e inclusion of students with uipment selection, program s development. Pedagogical
develop a research design, and complete CHPE 404 This course is designed for candidates a source of information about the most re special needs, temporary and permanen planning motor exploration, physical fit strategies, Multicultural approaches, teo Teacher Education or Educational Studie CHPE 413 This course provides the background infi which they are certified. The course inc Control and Prevention: (1) communical	the senior thesis under the guidance of an instructor. Methods of Teaching early Childhood Health and Physical Education who will be teaching physical education at the elementary school I cent trends and developments in physical education, addressing th nt adaptive strategies, program evaluation, safety procedures, eq mess, and as a resource for new games, stunts, dances, and fitnes chnology integration and curriculum design will be emphasized. s. Health Education Curriculum and Methods formation and skills teachers need to implement comprehensive sch cludes information on the six categories of risk behavior identified ble diseases, (2) sexually transmitted diseases, (3) non-communical tional reforms that focus on improving the health of today's youth.	3 Credits evel. The course provides a e inclusion of students with uipment selection, program s development. Pedagogical <i>Prerequisite</i> : Admission to 3 Credits tool health at grade levels in by the Centers for Disease ble diseases, and (4) chronic
develop a research design, and complete CHPE 404 This course is designed for candidates was source of information about the most re special needs, temporary and permanen planning motor exploration, physical fit strategies, Multicultural approaches, teo Teacher Education or Educational Studie CHPE 413 This course provides the background infi which they are certified. The course inco Control and Prevention: (1) communical degenerative disease. It examines education	the senior thesis under the guidance of an instructor. Methods of Teaching early Childhood Health and Physical Education who will be teaching physical education at the elementary school I cent trends and developments in physical education, addressing th nt adaptive strategies, program evaluation, safety procedures, eq mess, and as a resource for new games, stunts, dances, and fitnes chnology integration and curriculum design will be emphasized. s. Health Education Curriculum and Methods formation and skills teachers need to implement comprehensive sch cludes information on the six categories of risk behavior identified ble diseases, (2) sexually transmitted diseases, (3) non-communical tional reforms that focus on improving the health of today's youth.	3 Credits evel. The course provides a e inclusion of students with uipment selection, program s development. Pedagogical <i>Prerequisite</i> : Admission to 3 Credits tool health at grade levels in by the Centers for Disease ble diseases, and (4) chronic

CHUM 228	Interdisciplinary Humanities I: Early Period – to 1914	3 Credits
approximately 1500 to 1914. The cours	rich diversity of cultural forms that flourished prior to World War I e emphasizes three core areas of study: (1) basic similarities betwee generally; and (3) the influence of earlier cultures on Western civiliza	en cultures with little or no
СНИМ 230	Interdisciplinary Humanities II: Modern Period – World War I to Present	3 Credits
evolution in political systems; new dire discoveries in science; and new forms of	opments during the twentieth century. The course focuses on major clections in fine art and drama; novel philosophical themes; new tecl f literary expression. The course will give particular attention to the end of the unlimited possibilities in an expanding world for cult	nnological inventions; new emergence of cultural pride
СМАТ 103	Algebra I	3 Credits
	, the real numbers, first degree equations of one variable, inequalitic geometry and linear systems, rational exponents and radicals, quadra	
СМАТ 104	Algebra II	3 Credits
Linear models, polynomial and rational probability and statistics.	models, mathematics of finance, systems of linear equations and mat	rices, linear programming,
CMAT 105	Pre-Calculus I	3 Credits
	alytic geometry and calculus. Concepts include the real numbers syste ee, and functions and their graphs. <i>Prerequisites</i> : CMAT 103 or Institu	
СМАТ 106	Pre-Calculus II	3 Credits
	y in analytic geometry and calculus. Concepts include trigonometry, es and series. Prerequisite: CMAT 105 or Institutional placement.	systems of equations and
CMAT 108	Combined Pre-Calculus	6 Credits
	in mathematics. It will focus on concepts necessary to solve a variety o undertake a successful study of calculus, statistics or other inte al approval required.	
CMAT 111	Calculus I	4 Credits
Real numbers, functions, limits, derivativ or Institutional placement.	ves, definite integrals and the applications of these topics. <i>Prerequisi</i>	te: CMAT 106 or CMAT 108
СМАТ 111Н / 112Н	Calculus I and II	4 Credits ea.
introduces the concept of continuity of	research in calculus principles. CMAT 112H extends the mathematic: of a function of one variable, differentiation and integration of a y problems in natural sciences and engineering.	
CMAT 112	Calculus II	4 Credits
	egration with applications to volume and surface area of solids of revo improper integrals, and infinite series. <i>Prerequisite</i> : CMAT 111.	olution and centers of mass,
СМАТ 209	Calculus and Analytical Geometry I	3 Credits
	students majoring in business. Topics covered include mathematics uisite : CMAT 105 or Institutional placement. This course is for busine	
СМАТ 210	Calculus and Analytical Geometry II	3 Credits
	D9. Topics include differentiation and integration of transcendental fu a between two curves, differentiation of multivariable functions and ajors.	
CMAT 211	Calculus III	4 Credits
Topics include multidimensional calco Prerequisite : CMAT 112.	llus, namely partial geometry, multiple integrals, vector calculu	is and their applications.
CMAT 211H	Calculus III	4 Credits
Continuation of CMAT112 and includes their applications. <i>Prerequisite</i> : CMAT 1	three-dimensional analytic geometry, partial derivatives, multiple ir 12.	itegral, vector calculus and
СМАТ 212	Differential Equations	3 Credits
equations with constant and variable	d classification of differential equations. Techniques for first order to coefficients, methods of undetermined coefficients, variation of analysis and the second	
equations, and other methods for solving	nonlinear equations, series solutions. <i>Prerequisite</i> : CMAT 112. Differential Equations	3 Credits
	ial equations. Techniques for first-order nonlinear equation, linear equation	
variable coefficients, methods of undet	ermined coefficients, variation of parameters, Cauchy-Euler equation ions. <i>Prerequisites</i> : CMAT 112 or CMAT 210.	

CMAT 214	Linear Algebra	3 Credits
	ear algebra. Topics include vectors, matrices, linear equations, dete ith an inner product. Prerequisite : CMAT 106 or equivalent.	erminants, vector spaces, linea
СМАТ 214Н	Linear Algebra	3 Credits
Introduction to linear algebra. Topics Prerequisites : CMAT 105 and CMAT 1	s include vectors, matrices, linear equations, determinants, vector 106, or equivalent.	spaces with an inner produc
СМАТ 307	Structure of Elementary Mathematics I	3 Credits
	bblem solving, whole number computation, elementary set theory, les, and number theory. <i>Prerequisite</i> : CMAT 105.	numeration systems, algebrai
CMAT 308	Geometry for Pre-Secondary Teachers	3 Credits
	al aspects of geometry, basic Euclidean Theorems, congruence theory, proof techniques, and elements of Cartesian Geometry. Pro	
СМАТ 309	Structure of Elementary Mathematics II	3 Credits
	ber system and its basic properties, elementary probability and sta re aspects of teaching mathematics to elementary and middle grade MAT 307.	
СМАТ 310	Geometry for Secondary School Teachers	3 Credits
	econdary school mathematics from both quantitative and qualitat trategies. Prerequisites : CMAT 105 and CMAT 106 or CMAT 111 an	
СМАТ 311	Mathematical Logic	3 Credits
	quivalence classes, Boolean algebra, the role of axiomatic in the s modus ponens, reduction absurdum, propositional calculus, first IAT 111 or departmental approval.	
CMAT 321	Mathematical Probability and Statistics I	3 Credits
	obability; distribution functions and moment generating function binomial, normal, Student's t, chi square, and F distributions; Poisso ntal approval.	
CMAT 322	Mathematical Probability and Statistics II	3 Credits
	IAT 321; distribution functions and moment generating function binomial, normal, Student's t, chi square, and F distributions; Poisso	
	Modern Algebra I	3 Credits
СМАТ 325		
	umber system, groups, rings, fields, matrices and linear transforma ems of equations, reducible polynomials, and algebraic and transce	ations, linear algebra, and othe
This course includes a study of the m algebraic systems, vector spaces, syste CMAT 311 or departmental approval.		ations, linear algebra, and othe
This course includes a study of the malgebraic systems, vector spaces, systems, CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and c	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II Γ 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc	ations, linear algebra, and othe ndental numbers. <i>Prerequisit</i> 3 Credits rings, fields, matrices and linea
This course includes a study of the malgebraic systems, vector spaces, system 311 or departmental approval. CMAT 326 This course is a continuation of CMAT	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II Γ 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc	ations, linear algebra, and othen ndental numbers. <i>Prerequisite</i> 3 Credits rings, fields, matrices and linea
This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. Prereque CMAT 421 This course includes a study of sets, read completeness, sequences, series completeness, compactness, sequences	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II F 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc <i>isite</i> : CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and cours s, limits of functions, and continuity, the Riemann integral, imples and series of functions, uniform continuity and convergence, integral	tions, linear algebra, and othen ndental numbers. <i>Prerequisite</i> 3 Credits rings, fields, matrices and linear sible polynomials, and algebraite 3 Credits ntable sets, real numbers, order proper integral. Metric space
This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. Prereque CMAT 421 This course includes a study of sets, read completeness, sequences, series completeness, compactness, sequences functions. Prerequisites: CMAT 211 a	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II F 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc <i>isite</i> : CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and cours s, limits of functions, and continuity, the Riemann integral, imples and series of functions, uniform continuity and convergence, integral	tions, linear algebra, and othen ndental numbers. <i>Prerequisite</i> 3 Credits rings, fields, matrices and linear sible polynomials, and algebraite 3 Credits ntable sets, real numbers, order proper integral. Metric space
This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. Prereque CMAT 421 This course includes a study of sets, reand completeness, sequences, series completeness, compactness, sequence functions. Prerequisites: CMAT 211 arean CMAT 422 This course is a continuation of CMAT this course is a continuation of CMAT 211 arean completeness. Prerequisites: CMAT 211 arean completeness is a continuation of CMAT arean completeness. This course is a continuation of CMAT 422. This course is a continuation of CMAT arean completeness. This course is a continuation of CMAT arean completeness. This course is a continuation of CMAT 422. This course is a continuation of CMAT arean course is a continuation of CMAT 422. This course is a continuation of CMAT 422.	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II F 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc <i>isite</i> : CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and cours s, limits of functions, and continuity, the Riemann integral, imp es and series of functions, uniform continuity and convergence, inte nd CMAT 311.	ations, linear algebra, and other indental numbers. Prerequisite 3 Credits rings, fields, matrices and linear ible polynomials, and algebrai 3 Credits a Credits a Credits 3 Credits a Gredits a Gredits a Gredits a Gredits s, order and completeness, th
This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. <i>Prereque</i> CMAT 421 This course includes a study of sets, reand completeness, sequences, series completeness, compactness, sequence functions. <i>Prerequisites</i> : CMAT 211 a CMAT 422 This course is a continuation of CMAT conserved for the second se	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II F 325. This course includes a study of the number system, groups, r other algebraic systems, vector spaces, systems of equations, reduc <i>tisite</i> : CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and cours s, limits of functions, and continuity, the Riemann integral, imp es and series of functions, uniform continuity and convergence, inte nd CMAT 311. Advanced Calculus II AT 421. An expanded discussion of sets, functions, real numbers Metric spaces, completeness, compactness, sequences and series of	ations, linear algebra, and other indental numbers. <i>Prerequisit</i> 3 Credits rings, fields, matrices and linear ible polynomials, and algebra 3 Credits a Credits a Credits 3 Credits a Gredits a Gredits a Gredits a Gredits s, order and completeness, th
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This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. Prerequeed CMAT 421 This course includes a study of sets, reand completeness, sequences, series completeness, compactness, sequences functions. Prerequisites : CMAT 211 at CMAT 422 This course is a continuation of CM. Riemann integral, improper integral, and convergence, integral of sequences CMAT 423 This is an introductory course in corritegrals, series, residues, poles, and not complete the series of	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II F 325. This course includes a study of the number system, groups, rother algebraic systems, vector spaces, systems of equations, reductisite: CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and courts, limits of functions, and continuity, the Riemann integral, impes and series of functions, uniform continuity and convergence, internet CMAT 311. Advanced Calculus II AT 421. An expanded discussion of sets, functions, real numbers Metric spaces, completeness, compactness, sequences and series of functions. <i>Prerequisite</i> : CMAT 421. Introduction to Complex Variables I nplex variables, including the complex numbers, analytic functions, napping by elementary functions. <i>Prerequisite</i> : CMAT 211. Introduction to Complex Variables II	ations, linear algebra, and other indental numbers. <i>Prerequisite</i> 3 Credits "ings, fields, matrices and linear independent
This course includes a study of the malgebraic systems, vector spaces, system CMAT 311 or departmental approval. CMAT 326 This course is a continuation of CMAT transformations, linear algebra, and cand transcendental numbers. Prerequement CMAT 421 This course includes a study of sets, reand completeness, sequences, series completeness, compactness, sequences functions. Prerequisites: CMAT 211 at CMAT 422 This course is a continuation of CMAT and convergence, integral of sequences CMAT 423 This is an introductory course in committed and integrals, series, residues, poles, and not complete to the series of the se	ems of equations, reducible polynomials, and algebraic and transcer Modern Algebra II T 325. This course includes a study of the number system, groups, r ther algebraic systems, vector spaces, systems of equations, reductisite: CMAT 325. Advanced Calculus I elations and functions, mathematical induction, equivalent and courts, limits of functions, and continuity, the Riemann integral, imples and series of functions, uniform continuity and convergence, intend CMAT 311. Advanced Calculus II AT 421. An expanded discussion of sets, functions, real numbers Metric spaces, completeness, compactness, sequences and series of sea and series of functions. <i>Prerequisite</i> : CMAT 421. Introduction to Complex Variables I uplex variables, including the complex numbers, analytic functions, napping by elementary functions. <i>Prerequisite</i> : CMAT 211.	ations, linear algebra, and other indental numbers. <i>Prerequisite</i> 3 Credits ings, fields, matrices and linear independential polynomials, and algebra 3 Credits 3 Credits ations, real numbers, order integral. Metric space egral of sequences and series of a Credits s, order and completeness, the functions, uniform continuit 3 Credits elementary functions, completeness, completenesy, completeness, completeness, completeness,

CMAT 428	Introduction to Topology II	3 Credits
	n of CMAT 427. This course includes the study of limits and metric s al spaces, completeness, product spaces. Prerequisite: CMAT 427.	paces, continuous functions on metri
CMAT 440	Numerical Analysis	3 Credits
This course is an introductor error analysis. <i>Prerequisites</i>	y study of numerical algorithms for the solution of algebraic, different CMAT 212 and CMAT 214.	ntial and partial differential equations
СМАТ 443	Introduction to Operation Research	3 Credits
	programming, duality, sensitivity analysis, integer programming and equisites: CMAT 211 and CMAT 214.	d applications to various decision an
CMAT 461	Introduction to the Theory of Numbers	3 Credits
	ly of Diophantine equations, congruencies, theory of residues and in some classical problems in number theory. <i>Prerequisite</i> : CMAT 325 of	
CMAT 471	Discrete Mathematical Structures	3 Credits
This course is an introduct <i>Prerequisite</i> : CMAT 111 or d	ion to finite mathematical structures and their application to co epartmental approval.	omputational and computer sciences
CMAT 475	Seminar I	3 Credits
This course includes selected	topics, papers, projects, and research in mathematics. <i>Prerequisite</i> : I	Departmental approval.
CMAT 476	Seminar II	3 Credits
This course includes selected	topics, papers, projects, and research in mathematics. <i>Prerequisite</i> : I	Departmental approval.
CMAT 480	Independent Study	1 – 3 Credits
This course includes selected	topics, papers and projects. <i>Prerequisite</i> : Departmental approval.	
CMAT 483	Mathematics in Community Service	3 Credits
This course is an expansion students. <i>Prerequisite</i> : Department	of the departmental tutorial program. This expansion is a commu	unity course in service to local schoo
CMAT 497	Internship	3 Credits
	career-related work experiences. Although the internship does uraged to participate. <i>Prerequisite</i> : Departmental approval.	not carry credit toward the degree
CMAT 501	Calculus and Linear Algebra	3 Credits
This is a course for non-m	athematics majors who are deficient in the tools of calculus an	nd linear algebra.
CMAT 521	Real Analysis I	3 Credits
	its of functions, sequences, continuity, differentiation, The y of Lebesgue measure and integration.	Riemann Integral, sequences an
CMAT 522	Real Analysis II	3 Credits
	ion of CMAT 521. An expanded discussion of the Theory of L s, product measure and product integration.	ebesgue measure and integration
CMAT 523	Complex Variables I	3 Credits
	e theory and applications of functions of a complex variable; onic functions, conformal mapping and analytic continuation.	
СМАТ 524	Complex Variables II	3 Credits
This course is a continua complex variable is covered	ation of CMAT 523. An expanded discussion of the theory a	and applications of functions of
CMAT 525	Algebra I	3 Credits
	e course covers the basic theory of groups, Sylow theorems, include Galois theory and category theory.	rings, integral domains, fields and
CMAT 526	Algebra II	3 Credits
This course is a continuati Galois theory and category	ion of CMAT 525. An expanded discussion of groups, rings, interpretent of the second s	egral domains, fields and module:
	Topology I	3 Credits
CMAT 527 The course includes the st completeness, compactnes	tudy of topological concepts including metric and topological	

СМАТ 528	Topology II	3 Credits
	f CMAT 527. An expanded discussion of topological concer inectedness, completeness, compactness and product spaces ar	
СМАТ 541	Principles of Applied Mathematics I	3 Credits
	various techniques of applied mathematics including Green's fu s in Hilbert spaces, spectral analysis and Laplace transform.	unctions, string vibration
СМАТ 542	Principles of Applied Mathematics II	3 Credits
	F CMAT 541. An expanded discussion of various techniques g vibration, integral and differential operators in Hilbert space	
CMAT 601	Probability Theory and Stochastic Processes I	3 Credits
	y theory including central limit theorem and ergodic theory. t increment processes and Gaussian processes.	Also included is study o
CMAT 602	Probability Theory and Stochastic Processes II	3 Credits
	CMAT 601. An expanded discussion of probability theory, en t processes and Gaussian processes is covered.	rgodic theory, stationar
СМАТ 605	Partial Differential Equations	3 Credits
The course is a study of techniqu Hilbert space methods.	es for solving partial differential equations, including distribut	tions, Sobolev spaces and
СМАТ 607	Introduction to Numerical Methods	3 Credits
The course includes a study of r including error analysis.	numerical algorithms for the solution of algebraic, differentia	al and integral equation
СМАТ 608	Advanced Numerical Methods	3 Credits
	dvanced techniques of numerical analysis including finite differration rabolic equations. Also included are various functional analytic	
СМАТ 609	Introduction to Control Theory	3 Credits
	heory including the calculus of variations, Hamilton-Jacobi e stochastic control depending on interest.	theory and Pontryagin
СМАТ 610	Foundations of Mathematics	3 Credits
Students study basic concepts and the needs of students.	d ideas in the philosophy and foundations of mathematical scie	ences, topics varying wit
СМАТ 611	Mathematical Logic	3 Credits
Study of Boolean algebraic and log	gic concepts with applications to circuit design and theorem pro	oving.
СМАТ 612	Theory of Sets	3 Credits
The course topics include the c transfinite arithmetic, well order	Theory of Sets descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the ar- ma.	
The course topics include the c transfinite arithmetic, well order ordering theorem and Zorn's Lem	descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the a	luct, relations, counting
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme	descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the a ma. Nonlinear Optimization I nt of finite dimensional nonlinear programming; Computation	duct, relations, counting xiom of choice, the well 3 Credits
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current deve	descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the a ma. Nonlinear Optimization I nt of finite dimensional nonlinear programming; Computation	duct, relations, counting xiom of choice, the well
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current deve CMAT 616 This is a continuation of CMAT 62	descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the at ma. Nonlinear Optimization I ent of finite dimensional nonlinear programming; Computation elopments.	duct, relations, counting duct, relations, counting xiom of choice, the well 3 Credits al aspects of constraine 3 Credits and aspects of constraine and aspects of constraine and constraine and constraine benet of finite dimensional
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current devo CMAT 616 This is a continuation of CMAT 65 nonlinear programming and comp	descriptive theory of sets and functions, the cartesian proceed sets and cardinal numbers, and the equivalence of the arma. Nonlinear Optimization I nt of finite dimensional nonlinear programming; Computation elopments. Nonlinear Optimization II 15. An expanded discussion of analytical and numerical treatment	duct, relations, counting duct, relations, counting xiom of choice, the well 3 Credits al aspects of constraine 3 Credits and aspects of constraine and aspects of constraine benet of finite dimensional
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current devo CMAT 616 This is a continuation of CMAT 62 nonlinear programming and comp CMAT 628 Linear Spaces, Normed Spaces, E	descriptive theory of sets and functions, the cartesian proceed sets and cardinal numbers, and the equivalence of the arma. Nonlinear Optimization I ent of finite dimensional nonlinear programming; Computation elopments. Nonlinear Optimization II 15. An expanded discussion of analytical and numerical treatmoutational aspects of constrained extremum problems is covered	duct, relations, counting duct, relations, counting xiom of choice, the wel 3 Credits al aspects of constraine 3 Credits and aspects of constraine 3 Credits ent of finite dimensional d. 3 Credits
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current deve CMAT 616 This is a continuation of CMAT 62 nonlinear programming and comp CMAT 628 Linear Spaces, Normed Spaces, E strong and weak convergence.	descriptive theory of sets and functions, the cartesian proc red sets and cardinal numbers, and the equivalence of the arma. Nonlinear Optimization I Int of finite dimensional nonlinear programming; Computation elopments. Nonlinear Optimization II 15. An expanded discussion of analytical and numerical treatmoutational aspects of constrained extremum problems is covere Functional Analysis	duct, relations, counting duct, relations, counting xiom of choice, the wel 3 Credits al aspects of constraine 3 Credits and aspects of constraine 3 Credits ent of finite dimensional d. 3 Credits
The course topics include the or transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current deve CMAT 616 This is a continuation of CMAT 62 nonlinear programming and comp CMAT 628 Linear Spaces, Normed Spaces, E strong and weak convergence. CMAT 639	descriptive theory of sets and functions, the cartesian proceed sets and cardinal numbers, and the equivalence of the arma. Nonlinear Optimization I nut of finite dimensional nonlinear programming; Computation elopments. Nonlinear Optimization II 15. An expanded discussion of analytical and numerical treatmoutational aspects of constrained extremum problems is coveree Functional Analysis Banach Spaces, Hahn-Banach theorem, open-mapping theorem	duct, relations, counting duct, relations, counting isiom of choice, the well 3 Credits al aspects of constraine 3 Credits nent of finite dimensiona d. 3 Credits n, closed-graph theorem 3 Credits
transfinite arithmetic, well order ordering theorem and Zorn's Lem CMAT 615 Analytical and numerical treatme extremum problems; current deve CMAT 616 This is a continuation of CMAT 62 nonlinear programming and comp CMAT 628 Linear Spaces, Normed Spaces, E strong and weak convergence. CMAT 639	descriptive theory of sets and functions, the cartesian proceed sets and cardinal numbers, and the equivalence of the arma. Nonlinear Optimization I ent of finite dimensional nonlinear programming; Computation elopments. Nonlinear Optimization II 15. An expanded discussion of analytical and numerical treatmoutational aspects of constrained extremum problems is coveree Functional Analysis Banach Spaces, Hahn-Banach theorem, open-mapping theorem Differential Equations	duct, relations, counting duct, relations, counting isiom of choice, the well 3 Credits al aspects of constraine 3 Credits nent of finite dimensiona d. 3 Credits n, closed-graph theorem 3 Credits

CMAT CAA	Onevetiene Deceeval II	2 Credite
CMAT 644	Operations Research II AT 643. An expanded discussion of techniques for analytical	3 Credits
problems is covered.	A1 643. An expanded discussion of techniques for analytical	formulation of decision
CMAT 651	Topics in Mathematics	3 Credits
Study of topics of current interest research-based project on a selected	in the Department of Mathematical Sciences. Students will lissue in the field of mathematics.	complete and present a
СМАТ 675	Thesis Seminar I	3 Credits
Students develop a research topic le	ading to the completion of a graduate thesis.	
СМАТ 676	Thesis Seminar II	3 Credits
Students develop a research topic le	ading to the completion of a graduate thesis.	
СММА 200	Basic News Writing and Reporting	3 Credits
	emphasizes writing various types of news stories for print and broad NG 106, English Composition II with a final grade of "C" or better.	dcast media. <i>Prerequisites</i> :
CMMA 201	Survey of Media and Society	3 Credits
economic controls as well as the imp	storic foundations and current status of the mass media. Emphasis wact and influence of the mass media in today's society. Prerequ mposition II with a final grade of "C" or better.	
CMMA 203	Multimedia Writing, Reporting and Storytelling	3 Credits
requirements for various kinds of forma	asic characteristics of writing for print, radio, television, the Internet ats and scripts including commercials, short and long form narrative media. <i>Prerequisites</i> : CMMA 200, Basic News Writing and Reportin	s, talk shows, news stories,
СММА 301	News Editing I	3 Credits
headline writing, page design, and pic professional skills that are basic to an ec	ews copy and wire service stories to give students training in theory a sture sizing and cropping. This class is designed to develop stud litor's job: grammar, spelling, punctuation, and style; content, editing cy, etc. Prerequisite : CMMA 203, Multimedia Writing, Reporting and S	lents' critical-thinking, and , ethics; libel; inflammatory
СММА 302	News Editing II	2 Creadite
CHIM 502	News Euring II	3 Credits
This laboratory course combines theo newspaper or magazine. Students will fi	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a	produce a prototype of a
This laboratory course combines theo newspaper or magazine. Students will fi	ry with hands-on production activities. Students are required to	produce a prototype of a
This laboratory course combines theo newspaper or magazine. Students will for and learning layout and design and digit: CMMA 305 This course will explore the characterizad qualify their value as a catalyst for soc	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media tion and interpretation of the image of African-Americans in film and cial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit: CMMA 305 This course will explore the characteriza qualify their value as a catalyst for soo propagated through negative imagery in	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media tion and interpretation of the image of African-Americans in film and cial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit. CMMA 305 This course will explore the characteriza qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media ition and interpretation of the image of African-Americans in film and cial, political, and cultural change. This course will also assess the a films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve- ng and Storytelling.	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought ey of Media and Society and 3 Credits ts include the psychological ican and Third-World films.
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit. CMMA 305 This course will explore the characteriza qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media ition and interpretation of the image of African-Americans in film and tial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve- ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject n and French cinema. There is a special emphasis on African-American	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought ey of Media and Society and 3 Credits ts include the psychological ican and Third-World films.
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit. CMMA 305 This course will explore the characterizz qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia Prerequisites : CMMA 201, Survey of Me CMMA 307 An introductory concept course that a	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media attion and interpretation of the image of African-Americans in film and tial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject n and French cinema. There is a special emphasis on African-Ameri dia and Society and CMMA 203, Multimedia Writing, Reporting and St	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought ey of Media and Society and 3 Credits ts include the psychological ican and Third-World films. orytelling. 3 Credits ces of the public relations
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This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit. CMMA 305 This course will explore the characterizz qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia Prerequisites : CMMA 201, Survey of Me CMMA 307 An introductory concept course that so profession. Prerequisites : CMMA 203, Permission of Instructor. CMMA 308 This course will familiarize students witt Operational procedures, FCC regulations	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media titon and interpretation of the image of African-Americans in film and cial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject in and French cinema. There is a special emphasis on African- Ameri dia and Society and CMMA 203, Multimedia Writing, Reporting and St Public Relations Principles, Practices and Theory surveys the principles, theories, strategies, techniques and practic Multimedia Writing, Reporting and Storytelling and CMMA 201, Su Introduction to Radio-Television-Film h the organizations, equipment and terminologies typically utilized in c, and styles of writing applicable to broadcasting and film are introd	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought ey of Media and Society and 3 Credits ts include the psychological ican and Third-World films. orytelling. 3 Credits ces of the public relations rvey of Media and Society; 3 Credits n radio, television, and film.
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit. CMMA 305 This course will explore the characterizz qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia Prerequisites : CMMA 201, Survey of Me CMMA 307 An introductory concept course that s profession. Prerequisites : CMMA 203, Permission of Instructor. CMMA 308 This course will familiarize students wit Operational procedures, FCC regulations	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media ttion and interpretation of the image of African-Americans in film and itial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject n and French cinema. There is a special emphasis on African- Ameri dia and Society and CMMA 203, Multimedia Writing, Reporting and St Public Relations Principles, Practices and Theory surveys the principles, theories, strategies, techniques and practio Multimedia Writing, Reporting and Storytelling and CMMA 201, Surve Multimedia Writing, equipment and terminologies typically utilized in	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought ey of Media and Society and 3 Credits ts include the psychological ican and Third-World films. orytelling. 3 Credits ces of the public relations rvey of Media and Society; 3 Credits n radio, television, and film.
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit: CMMA 305 This course will explore the characteriza qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia <i>Prerequisites</i> : CMMA 201, Survey of Me CMMA 307 An introductory concept course that so profession. <i>Prerequisites</i> : CMMA 203, Permission of Instructor. CMMA 308 This course will familiarize students witt Operational procedures, FCC regulations 201, Survey of Media and Survey and CM CMMA 310 This course is an introduction to the na contemporary world societies. Emphasi political, social, and cultural interrelation	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media tion and interpretation of the image of African-Americans in film and tial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve- ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject n and French cinema. There is a special emphasis on African- Ameri dia and Society and CMMA 203, Multimedia Writing, Reporting and St Public Relations Principles, Practices and Theory surveys the principles, theories, strategies, techniques and praction Multimedia Writing, Reporting and Storytelling and CMMA 201, Surve Multimedia Writing, Reporting and Storytelling and CMMA 201, Surve Multimedia Writing, Reporting and Storytelling and film are introd MA 203, Multimedia Writing, Reporting and Storytelling.	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought by of Media and Society and 3 Credits ts include the psychological ican and Third-World films. orytelling. 3 Credits ces of the public relations rvey of Media and Society; 3 Credits n radio, television, and film. uced. <i>Prerequisites</i> : CMMA 3 Credits ive that spans cultures and hniques and the economic,
This laboratory course combines theo newspaper or magazine. Students will fi and learning layout and design and digit: CMMA 305 This course will explore the characteriza qualify their value as a catalyst for soo propagated through negative imagery in CMMA 203, Multimedia Writing, Reporti CMMA 306 Historic and aesthetic contributions of fi effects of editing techniques and Russia <i>Prerequisites</i> : CMMA 201, Survey of Me CMMA 307 An introductory concept course that so profession. <i>Prerequisites</i> : CMMA 203, Permission of Instructor. CMMA 308 This course will familiarize students witt Operational procedures, FCC regulations 201, Survey of Media and Survey and CM CMMA 310 This course is an introduction to the na contemporary world societies. Emphasi political, social, and cultural interrelation	ry with hands-on production activities. Students are required to ollow through with skills refined in CMMA 301, News Editing I, but a al photography. <i>Prerequisite</i> : CMMA 301, News Editing I. African-American Images in the Media ttion and interpretation of the image of African-Americans in film and itial, political, and cultural change. This course will also assess the films, television, and other media. <i>Prerequisites</i> : CMMA 201, Surve ng and Storytelling. History and Criticism of Film amous films, filmmakers and film critics examined. Particular subject n and French cinema. There is a special emphasis on African- Ameri dia and Society and CMMA 203, Multimedia Writing, Reporting and St Public Relations Principles, Practices and Theory surveys the principles, theories, strategies, techniques and practic Multimedia Writing, Reporting and Storytelling and CMMA 201, Su Introduction to Radio-Television-Film h the organizations, equipment and terminologies typically utilized in s, and styles of writing applicable to broadcasting and film are introd MA 203, Multimedia Writing, Reporting and Storytelling. Public Opinion and Propaganda ture of public opinion and propaganda from an historical perspecti s is placed on the use and abuse of persuasive communication tec onships which determine the role of mass media in human affairs.	produce a prototype of a acquiring a solid grounding 3 Credits d television and attempts to dynamics of basic thought by of Media and Society and 3 Credits ts include the psychological ican and Third-World films. orytelling. 3 Credits ces of the public relations rvey of Media and Society; 3 Credits n radio, television, and film. uced. <i>Prerequisites</i> : CMMA 3 Credits ive that spans cultures and hniques and the economic,

		0.0 IV
CMMA 315	Mass Communications Research Methods	3 Credits
communications. This course covers	ualitative research methods and procedures used to study issue s sampling, research design, observation and measurement, execution strategies/tools. <i>Prerequisites</i> : CMMA 200, Basic News Writes ssion of Instructor	statistics, data analysis,
CMMA 318	Public Relations Media Development and Copy Editing	3 Credits
print, electronic, and audiovisual media	the dissemination of messages to multiple groups across internal a a. This course focuses on practical skills for editing copy and imple Writing, Reporting and Storytelling and CMMA 307, Public Relation	ementing media strategies.
CMMA 320	History of Journalism	3 Credits
contributions of African-Americans, Hi	rse in an historical context. The growth of American journalisn spanics, Native Americans and Asians. Students identify major p sm in the United States. <i>Prerequisites</i> : CMMA 201, Survey of Media a telling.	personalities and examine
CMMA 325	Editorial and Critical Writing	3 Credits
and analytical approaches of selected m Media and Society; CMMA 301, News Edi		ites: CMMA 201, Survey of
CMMA 327	History and Development of Radio and Television	3 Credits
	development of radio and television from the earliest technological i ogramming, social trends, and technology interplay to impact society	
СММА 331	International Journalism	3 Credits
	d provides instruction in techniques and skills needed to write for fo , Survey of Media and Society and CMMA 203, Multimedia Writing, Re	
СММА 334	Broadcast Journalism and Editing	3 Credits
	d to radio and television broadcasting. Emphasis is on gathering, ana tapings are required. Prerequisite: CMMA 308, Introduction to Radio	
CMMA 338	Media Advertising and Sales	3 Credits
Emphasis is placed on consumer and	pasic processes, strategies, and techniques for producing, selling, a marketing research, media advertising, campaigns, marketing plan: quisites : CMMA 201, Survey of Media and Society and CMMA 203, Mul r.	s, media ratings, audience
CMMA 348-R/TV/F	Fundamentals of Video/Radio/Film Production	3 Credits
	principles of effective studio and location production. The student v v to make creative and aesthetic decisions regarding programming.	
СММА 350	Interpretative Reporting	3 Credits
governmental bodies as the schools, cou and be given instruction in how to ana	ises on developing the student's analytical skills and news writing arts, and city, county, and state agencies. Students will be assigned to alyze the cause of news events through interviewing and the persis- icles in an approved periodical. <i>Prerequisites</i> : CMMA 201, Survey of	o cover actual news events stent searching of records.
СММА 352	Feature Writing	3 Credits
	cuses on developing skills in researching, organizing, and writing all e required to publish articles in an approved periodical. Prerequisites y.	
СММА 361	Newspaper Production	3 Credits
with production activities. Students will	ding of principles and skills involved in producing a newspaper or ma be taught the organization of a newspaper and its functions as wel s ites : CMMA 201, Survey of Media and Society; CMMA 301, News Editi	l as headline writing, copy
CMMA 418PR	Research and Evaluation	3 Credits
action programs that address communi	develop the essential research and analytical skills for the planning, e cation problems and issues faced by organizations and institutions. orytelling; CMMA 307, Public Relations Principles, Practices and '	Prerequisites: CMMA 203,

CMMA 422	Philosophy and Ethics of Mass Communications	3 Credits
	nical assumptions embodied in mass communications systems a es: CMMA 201, Survey of Media and Society and CMMA 203, Multi	
CMMA 425	Communication Law	3 Credits
those laws, federal regulatory agencies'	n media. Concepts of freedom of speech and press, specific laws and rights in news and advertising, libel, slander, copyrights, and invas and CMMA 203, Multimedia Writing, Reporting and Storytelling.	
CMMA 462	Media Arts and Design	3 Credits
	ity to develop basic desktop publishing skills in page design, layou ertising campaigns. <i>Prerequisite</i> : CMMA 318, Public Relations M	
CMMA 475	Radio Programming and Production I	3 Credits
	al and noncommercial radio stations inclusive of staffing, formats, ducer, performer and writer. <i>Prerequisites</i> : CMMA 334, Broadcas deo/Radio/Film Production.	
CMMA 476	Radio Programming and Production II	3 Credits
	ial and noncommercial radio stations inclusive of staffing, formats, j .cer, performer and writer. Prerequisite : CMMA 475, Radio Prograr	
CMMA 477	Video Producing and Directing I	3 Credits
standard editing procedures: transition	dents for broadcast editing using linear and non-linear systems. S and editing strategies; audio editing, narration, music and sound eff MA 201, Survey of Media and Society and CMMA 348-R/TV/F, Funda	fects in producing effective TV
CMMA 478	Video Producing and Directing II	3 Credits
	nce in producing, directing, and editing. Students are required t evision productions. <i>Prerequisites</i> : CMMA 477, Video Producing an	
CMMA 479/480	Cinematography I and II	3 Credits ea.
Cinematography II students utilize know	nphasis on use of basic motion picture cameras, editing techni vledge gained in Cinematography I. Special emphasis is placed on 10 requirement. <i>Prerequisites</i> : CMMA 306, History and Criticism of I duction.	6mm-film production with the
CMMA 485	Public Relations Campaigns	3 Credits
public relations campaigns for social	mporary issues and problems faced by public relations profession "cause" organizations, and acquire entry-level professional skill: MA 318, Public Relations Media Development and Copy Editing; C	s in public relations through
CMMA 486	Mass Media Arts Co-Operative Education	3 Credits
Juniors and seniors are allowed to we television, or film for credit. <i>Prerequisit</i>	ork full time off-campus (with University supervision) in journa e : Permission of the department chair.	alism, public relations, radio,
CMMA 487J	Media Arts Studies	3 Credits
Special course which allows students <i>Prerequisite</i> : Permission of the Instruct	to focus and study current media themes, applications, trends or.	, etc. Course content varies.
CMMA 487PR	Media Arts Studies: Screenwriting I	3 Credits
television formats. Students will exami	derstanding of story structure and dramatic paradigms essential ne the elements of screenwriting for both film and television wi development, narrative structure and dialogue. <i>Prerequisite</i> :	th an emphasis on character
CMMA 487-R/TV/F	Media Arts Studies	3 Credits
Special course, which allows students Prerequisite : Permission of department	to focus and study current media themes, applications, trends chair.	s, etc. Course content varies.
CMMA 488	Directed Study	3 Credits
screenplay based on an existing treatme tightening plot and structure, deepening	seminar in which each student presents work, no matter what stag ent, while others will be continuing or rewriting a first draft screer characterization, and writing dialogue. Ultimately, this course will length screenplay. <i>Prerequisites</i> : CMMA 487, Media Arts Studies: nstructor.	play. This course emphasizes support the student's refining

СММА 488Ј	Directed Study	3 Credits
	journalism faculty member who works with the student to meet spage and written work from the student. <i>Prerequisites</i> : Junior or senior	
CMMA 488PR	Directed Study	3 Credits
	a public relations faculty member who agrees to work with the stures extensive reading and written work from the student. <i>Prereq</i>	
CMMA 488-R/TV/F	Directed Study	3 Credits
	radio-television-film faculty member who agrees to work with the stress extensive reading and written work from the student. <i>Prereq</i>	
СММА 489Ј	Internship	3 Credits
	dia facilities in Atlanta and other cities. Emphasis on learning over making positions. <i>Prerequisites</i> : Senior status in major and permissi	
CMMA 489PR	Internship	3 Credits
	dia facilities in Atlanta and other cities. Emphasis is on learning ove- making positions. <i>Prerequisites</i> : Senior status and permission of the	
CMMA 489-R/TV/F	R/TV/F Internship	1, 2, or 3 Credits
	dia facilities in Atlanta and other cities. Emphasis is on learning ove making positions. Prerequisites : Senior status and permission of the	
СММА 490	Media Seminar	3 Credits
their areas of concentration. It is a resear both orally and in writing to be evaluate	ides students with an opportunity to apply theories and techniques rch seminar. Seniors must successfully complete an approved final pr d by a panel of faculty and industry professionals. In consultation w ring the first semester. Research projects should reflect the career o r.	oject that will be presented ith their advisors, students
CMUS 100 - 400	First – Fourth Level Ensemble	1 Credit
Faculty supervised performances design	ed to help students develop their own musical styles in small group se	ettings.
CMUS 101	Fundamentals of Music	2 Credits
examination in Theory. This course fan	ments of music theory required of music majors and minors who o niliarizes students with scales, key signatures, notation symbols, rh count toward music degree credit nor does it satisfy the General Edu	ythm, meter, intervals and
CMUS 105	Sight Singing and Ear Training I	3 Credits
Practical study in sight-reading and in diagnostic exam or CMUS 101 with a min	melodic, harmonic, and rhythmic dictation. <i>Prerequisite</i> : Passing s imum final grade of "C".	core on the Music Theory
CMUS 106	Sight Singing and Ear Training II	3 Credits
Practical study in sight-reading and in diagnostic exam or CMUS 101 with a min	melodic, harmonic, and rhythmic dictation. <i>Prerequisite</i> : Passing s imum final grade of "C".	core on the Music Theory
CMUS 107/108 - 407/408	Applied Music	1 Credit ea.
instruments; string instruments; percus	ajors and minors in the following areas of study: voice; piano; woo sive instruments; and organ. Voice majors or minors with limited pr e. Non-music majors must obtain permission from the applied instru- ble needs and/or space availability.	evious voice study may be
CMUS 107C	Voice Class I	1 Credit
	rformance focusing on tone production, diction, breathing and vocal r sic program for voice performance majors or minors who have limite the instructor.	
CMUS 108C	Voice Class II	1 Credit
Basic principles and methods of vocal str non-majors by approval of the instructor	udies for voice majors or minors who have limited vocal experience a	and/or vocal skills. Open to
CMUS 109	Instrumental Class	1 Credit ea.
instruments. Section 1: String Class. The Section 2: Woodwind Class. The study of students. Section 3: Brass Class. The stu and tuba to brass students. Section 4: P	thodologies for students to perform functionally on string, woodw study of basic pedagogical principles and repertoire for teaching strin basic pedagogical principles and repertoire for teaching wood wind dy of basic pedagogical principles and repertoire for teaching trump ercussion Class. The study of basic pedagogical principles for teachi epertoire in the use of percussive instruments.	ng instruments to students. I instruments to woodwind bet, trombone, French horn

338 Undergraduate Catalog 2014-2016

CMUS 110 - 410	Atlanta University Symphony Orchestra	1 Credit
	m the Atlanta University Center. Major orchestral works performed	
school year. Open to all CAU students by	audition and permission of the director. Required for string majors.	-
CMUS 111 - 411	University Choir/Philharmonic Society	1 Credit
	ange of various musical styles and major choral works. Open to all CA sic throughout the school year: seasonal concerts, convocations, back Required for voice majors.	
CMUS 112 - 412	University Bands	1 Credit
students by audition and permission of	orm wind ensemble music from a broad range of standard band re the director. The bands provide music throughout the school year at approved parades, commencement and other on- and off campus func	football games, basketball
CMUS 113 - 413	Jazz Orchestra	1 Credit ea.
	s a wide range of jazz repertoire from the 1920's to the present. E en to all CAU students by audition and permission of the director.	mphasizes instruction and
CMUS 114A/114B - 414A/ 414B	Performance Seminar	1 Credit ea.
solo and chamber - technique and mu	musicianship for the performer. Topics include but are not limited to sicianship, performers and discographies, and career development. Section; 3: Brass; Section 4: Woodwind; Section 5: Strings Section; 6:	Required 8 semesters for
CMUS 115A/115B - 415A/ 415B	Music Seminar	0 Credit ea.
	informal discussions on topics and problems in theory, musicolog ts, and students make presentations. Enrollment and attendance requ	
CMUS 116-416	Hand Bell Ensemble	1 Credit
	repertoire of hand bell literature. Open by audition to students (mu frequired. Opportunities for concert performance throughout the yea	
CMUS 117A/117B, 217A/ 217B	Piano Class	1 Credit ea.
Proficiency Exam. The examination ma	rovides functional keyboard skills for the Non-piano music major/mi y be taken in any semester during which the student feels prepar proval of the instructor. Prerequisite : Passing score on Music Theory	ed to pass the proficiency
CMUS 119	World Music	3 Credits
	rld cultures. Course exams musical style, aesthetic viewpoints, and the new musical expressions, and the philosophies and world views	
CMUS 120	Music Appreciation	3 Credits
	Ing skills and introduces musical elements, forms, and Western African Diaspora and ethnic world cultures. Introduces the major m works.	
CMUS 201	Music Theory I	3 Credits
	t involves theoretical study in the harmonic, melodic and rhythmic sed throughout the course. Prerequisite : Passing score on the Music n final grade of "C".	
CMUS 202	Music Theory II	3 Credits
	hat involves theoretical study in the harmonic, melodic and rhythmi sed throughout the course. Prerequisite : Passing score on the Music f "C.	
CMUS 204	Basic Conducting	2 Credits
	niques, musical interpretation, and score preparation for instrume oratory setting. Required for all music majors.	ntal and choral ensembles.
CMUS 216	Introduction to Music Literature	3 Credits
Introduction to composers and their we influences on Western civilization.	orks from the Baroque era to the present. Features significant musi	cal compositions and their
CMUS 218A	Music Technology I	1 Credit
An introduction to computers, electronic hands-on approach.	keyboards and their uses. Basic categories of music software and the	ir uses will be explored in a
CMUS 218B	Music Technology II	1 Credit
	ectronic keyboards, music software, and their uses in the music i equisite: CMUS 218A with a minimum grade of "C".	ndustry. Designed for the

CMUS 221	Elementary Music Methods and Practicum	3 Credits
literature for elementary students, curr	iques for music education majors. This course focuses on classroon ent research in teaching/learning, national and state standards for cultural materials for all learners. Weekly field experience represe	music education, the use of
CMUS 232	Survey of the Music Industry	3 Credits
An overview of the business and techni world. Open to non-music majors as an e	cal side of the music entertainment industry. Features guest lecture lective.	ers from the music industry
CMUS 301	Music Theory III	3 Credits
common practice era, chromatic harmor	c Theory sequence. Focuses on advanced theoretical concepts, conti ny, 20th century practices, and style analysis. Music technology is infu I or permission of the instructor based on previous cognate studies.	
CMUS 302	Music Theory IV	3 Credits
common practice era, chromatic harmor	ic Theory sequence. Focuses on advanced theoretical concepts, cont by, 20th century practices, and style analysis. Music technology is infu II or permission of the instructor based on previous cognate studies.	
CMUS 303	Counterpoint	3 Credits
are also included. Prerequisite : CMUS 30	7th and 18th centuries, primarily in the style of J.S. Bach. Contrapun 01 and CMUS 302 with minimum final grades of "C". Not required for t	music education majors.
CMUS 304	Form and Analysis	3 Credits
and CMUS 302 with minimum final grade		-
CMUS 305A	Jazz Theory and Improvisation I	3 Credits
	armonic and formal characteristics – and their application in the art ion, chord substitution, altered chords, scales, and modes. Prerequisi	
CMUS 305B	Jazz Theory and Improvisation II	3 Credits
A continuation of CMUS 305A, featuring <i>Prerequisite</i> : CMUS 305A with a minimum	more advanced chord, scale, mode, form, composition and improvisat Im final grade of 'C'.	tional study and techniques.
CMUS 307R or 308R	Junior Recital	1 Credit
repertoire for the instrument or voice	najors who must satisfy curriculum requirements for a performance is required; recital must be no less than 30 minutes in length; and ring. Minors and other applied students may present junior recitals	l must be approved by the
CMUS 316	Music History and Literature I	3 Credits
	Middle Ages to the present. Emphasis on major style periods, co ences with analytical approaches. <i>Prerequisites</i> : CMUS 203, CMUS	
CMUS 317	Music History and Literature II	3 Credits
	Middle Ages to the present. Emphasis on major style periods, co ences with analytical approaches. <i>Prerequisites</i> : CMUS 203, CMUS	
CMUS 318	Jazz History	3 Credits
	antecedents through African-American contributions, past and prese o non-majors with the consent of the instructor.	nt. Stylistic contributions of
CMUS 320	African American Music	3 Credits
historical factors that impact the music a	frican-Americans from their African roots to modern day America. Ir nd the musicians. Open to non-music majors as an elective.	-
CMUS 321	Secondary Music Methods and Practicum	3 Credits
and exceptional students. Emphasis on	ate standards of music education for the middle and high school lear classroom management, effective teaching techniques, current meth eneral music. Includes the use of technology in the classroom and mul	odologies, and appropriate
CMUS 322	Methods and Materials of Teaching Music	3 Credits
	and teaching techniques needed by classroom teachers to direct m damentals, classroom instruments, and teaching materials are music majors as an elective.	
CMUS 323	Band Organization, Methods	3 Credits
	e band director to develop, organize and manage the total school in marching and concert band techniques, classroom management, app	

340 Undergraduate Catalog 2014-2016

CMUS 324	Choral Organization, Methods	3 Credits
	and managing the school choral program at all levels. Emphas tion, appropriate choral repertoire for all levels, classroom man	
CMUS 325	Jazz Orchestra Organization and Methods	2 Credits
Practical approaches for developing appropriate repertoire, and programmi	and managing a school jazz orchestra program. Includes r	ehearsal techniques, jazz styles
CMUS 326	Organ Improvisation and Service Playing	3 Credits
	tition, and accompanying in the church service setting. Includes s, the organ voluntary, and the organ combined with other	
CMUS 327	Music Business Seminar	1 Credit
	ctical and procedural problems encountered in the music b licenses; and performing rights organizations. Guest speakers a	
CMUS 328	Jazz Ensemble Workshop	1 Credit
Faculty supervised "jam sessions" desig	ned to help performers find their own style in an improvisatory	small group jazz setting.
CMUS 330	Piano Repertoire	3 Credits
This course is a survey of the standard during odd years only (e.g., 2013, 2015,	repertoire for the piano from the Baroque period to the present etc.).	t. Scheduled during fall semester
CMUS 331	Piano Music from the African Diaspora	3 Credits
This course is a survey of piano reperto during spring semesters during even ye	ire by composers from the African Diaspora from the late 19th ars only (e.g., 2012, 2014, etc.).	century to the present. Schedule
CMUS 340	Vocal Diction I	1 Credit
	nts with a concentration in vocal studies. Areas of study includ netic Alphabet (IPA) System. Must be taken concurrently with ap	
CMUS 342	Vocal Diction II	2 Credits
	nts with a concentration in vocal studies. Areas of study include honetic Alphabet (IPA) System. Must be taken concurrently m final grade of "C".	
CMUS 344	Opera Workshop I	2 Credits
	pera performance from the various historical periods. Areas of r literature, stage management, set design, movement, prop bu	
CMUS 345	Opera Workshop II	2 Credits
This course is a continuation of Opera <i>Prerequisite</i> : CMUS 344.	Workshop I with more advanced repertoire and dramatic inter	rpretation added to the sequence
CMUS 351	Songwriting, Arranging and Recording	3 Credits
atmosphere with the rudiments of mul	commercial composition concentration. It combines songwri ti-track, hard-drive recording using ProTools (laboratory). Stuc e semester. Prerequisite : CMUS 301 with a minimum final grade	dents will be required to produc
CMUS 370	Introduction to Church Music	1 Credit
	church music from biblical era to contemporary era. Music t mporary Christian and praise are studied. Scheduled during fal	
CMUS 372	Hymnody	3 Credits
	posers, tunes and textual settings. The course also includes a de Scheduled during spring semesters, odd years only (e.g., 2013, 2	
CMUS 402	Introduction to Composition	1 Credit
	intermediate compositional techniques. Students are requir pre-requisite to creating lead sheets and writing compositions a.	
CMUS 403	Orchestration and Arranging	3 Credits
	upphilition of the instruments of the orchestra including instru	iment ranges, transpositions an
	rranging techniques for the orchestra, band, and choral ensemb	
Focuses on the unique performance ca timbres. Study of practical scoring and a CMUS 404/01		

-	Instrumental Conducting and Literature	2 Credits
Rehearsal, interpretative, conducting tec high school.	hniques, methods and literature for instrumental organizations at al	l levels: elementary throug
CMUS 405	Jazz Composition and Arranging	3 Credits
Methods of composing and arranging ir Prerequisite: CMUS 301	h a jazz medium with attention to the differing styles in instrumen	tal and vocal combination
CMUS 406	Composition	3 Credits
	f major composers. Class projects will include original compositi d in the compositional techniques of past and contemporary comp	
CMUS 407R	Senior Recital	1 Credit
	r music major is required in partial fulfillment for the music degree. F literature for the instrument or voice, and will be at least 50 minute pre-recital hearing.	
CMUS 408R	Senior Recital	1 Credit
	r music major is required in partial fulfillment for the music degree. F literature for the instrument or voice, and will be at least 50 minute pre-recital hearing.	
CMUS 417	Senior Project	1 Credit
A specialized project or research paper approval by the department chair.	required in lieu of a Senior Recital. <i>Prerequisite</i> : Recommendation	by the applied teacher wit
CMUS 430	Piano Pedagogy I	3 Credits
	rategies and procedures for successful piano teaching, with empha e and musicianship, lesson plans, and observation of piano teach 14, etc.).	
CMUS 431	Piano Pedagogy II	3 Credits
	ies and pedagogical procedures for successful piano teaching, with nediate student, observation of piano teaching, and business proce years only (e.g., 2013, 2015, etc.).	
CMUS 440	Vocal Pedagogy	3 Credits
Students will learn how the vocal mecha	majors and minors who wish to enhance their understanding of the mism works. Attention will be given to the following techniques: for n, acoustics, the aesthetics of vocal timbre, and healthy singing.	
	17 11'1 1	0.0 11
	Vocal Literature	3 Credits
CMUS 442 This course presents an overview of mu	i sic for solo voice. Areas of study include English, French, Italian, and	
CMUS 442 This course presents an overview of mu major musical eras, including art songs, l CMUS 448	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching	German literature from th 12 Credits
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music tea the student spends two-four weeks band/choral/hand bell ensemble classe	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work in observing and working with children at various grade lev es. Student teachers are required to attend campus-based seminar ties. <i>Prerequisite</i> : completion of all required major and profession	German literature from th 12 Credits ing with students under th r to the in-depth practicum els in general music an s once per week and othe
CMUS 442 This course presents an overview of mu major musical eras, including art songs, l CMUS 448 Supervised student teaching at an appro supervision of a state certified music tea the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work in observing and working with children at various grade lev es. Student teachers are required to attend campus-based seminar ties. <i>Prerequisite</i> : completion of all required major and profession	German literature from th 12 Credits ing with students under th r to the in-depth practicum els in general music an s once per week and othe
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music tea the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work icher and a college supervisor with music education experience. Prio in observing and working with children at various grade lev is. Student teachers are required to attend campus-based seminar ties. <i>Prerequisite</i> : completion of all required major and profession ons (general and music).	German literature from th 12 Credits ing with students under th r to the in-depth practicum els in general music an s once per week and othe onal education courses an 3 Credits ef written reflections to th
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music tea the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C".	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work icher and a college supervisor with music education experience. Prio in observing and working with children at various grade lev es. Student teachers are required to attend campus-based seminar ties. <i>Prerequisite</i> : completion of all required major and profession ons (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, brief	German literature from th 12 Credits ing with students under th r to the in-depth practicum els in general music an s once per week and othe onal education courses an 3 Credits ef written reflections to th
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music tea the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C". CMUS 451 This "capstone" course will culminate in	 sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work the and a college supervisor with music education experience. Prior in observing and working with children at various grade leves. Student teachers are required to attend campus-based seminar ties. Prerequisite: completion of all required major and professions (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, brid equipment, techniques, and procedures used. Prerequisite: CMUS 	German literature from th
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro- supervision of a state certified music tea- the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C". CMUS 451 This "capstone" course will culminate in in a variety of media in different styles con-	 sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work the and a college supervisor with music education experience. Prior in observing and working with children at various grade leves. Student teachers are required to attend campus-based seminar ties. Prerequisite: completion of all required major and professions (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, brid equipment, techniques, and procedures used. Prerequisite: CMUS Senior Composition Project a senior composition project, both a CD recording and a live perform 	German literature from th
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music teat the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C". CMUS 451 This "capstone" course will culminate in in a variety of media in different styles co CMUS 470	 sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work acher and a college supervisor with music education experience. Prio in observing and working with children at various grade leves. Student teachers are required to attend campus-based seminar cies. Prerequisite: completion of all required major and profession ons (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, brie equipment, techniques, and procedures used. Prerequisite: CMUS Senior Composition Project a senior composition project, both a CD recording and a live performomosed by the student. Prerequisite: CMUS 403 with a minimum fired technication. 	German literature from th 12 Credits ing with students under the r to the in-depth practicure els in general music and s once per week and other onal education courses and 3 Credits ef written reflections to the 351 with a minimum fination 3 Credits nance that showcases must all grade of "C". 3 Credits
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro supervision of a state certified music teat the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C". CMUS 451 This "capstone" course will culminate in in a variety of media in different styles co CMUS 470	 sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work the and a college supervisor with music education experience. Prior in observing and working with children at various grade leves. Student teachers are required to attend campus-based seminar ties. Prerequisite: completion of all required major and profession (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, bride equipment, techniques, and procedures used. Prerequisite: CMUS Senior Composition Project a senior composition project, both a CD recording and a live performomosed by the student. Prerequisite: CMUS 403 with a minimum firmus for the African American Church 	German literature from the 12 Credits ing with students under the r to the in-depth practicurels in general music and sonce per week and other and education courses and 3 Credits of written reflections to the 351 with a minimum fine 3 Credits and the showcases musual grade of "C". 3 Credits
CMUS 442 This course presents an overview of mu major musical eras, including art songs, I CMUS 448 Supervised student teaching at an appro- supervision of a state certified music tea- the student spends two-four weeks band/choral/hand bell ensemble classe teaching-related workshops and activit successful pass on the PRAXIS examinati CMUS 450 An internship for commercial composit supervising instructor about recording grade of "C". CMUS 451 This "capstone" course will culminate in in a variety of media in different styles co CMUS 470 The study of literature and performance CMUS 472	sic for solo voice. Areas of study include English, French, Italian, and French Melodie, and German Lieder. Pre-Service Teaching wed site. Music majors pursue in-depth ten to twelve weeks of work in observing and working with children at various grade lev ss. Student teachers are required to attend campus-based seminar ties. Prerequisite: completion of all required major and profession ons (general and music). Recording Studio Internship ion students in an active recording studio, submitting regular, brie equipment, techniques, and procedures used. Prerequisite: CMUS Senior Composition Project a senior composition project, both a CD recording and a live perform omposed by the student. Prerequisite: CMUS 403 with a minimum fin Music in the African American Church practices found in the worship experience of African American Church	German literature from th

CMUS 480	Independent Study	0-6 Credits
	a research project or a combination of the two. Designed to meet t	
study. <i>Prerequisite</i> : Approval of departr	ear. Must be implemented in conjunction with a faculty member who nent chair.	oversees the agreed upon
CPED 101or CPED 102	Physical Education	1 Credit ea.
These courses develop recreational ski rationale for a physically fit lifestyle and	lls and abilities for current and future participation in leisure tim wellbeing.	e activities and provide a
СРНІ 105	Critical Thinking	3 Credits
Focuses on the development of intellec reasoning, and critical analysis of editori	tual skills for all areas of study, the organization of ideas, identifica als, speeches and articles.	ation of common errors in
СРНІ 105Н	Critical Thinking	3 Credits
Development of intellectual skills for all and critical analysis of editorials, speech	areas of study. Focuses on organization of ideas, identification of cones and articles.	mmon errors in reasoning,
CPHI 221	Introduction to Philosophy	3 Credits
	ilosophers. Topics for discussion include the nature of freedom, th the nature of knowledge, and issues in aesthetics.	e rational foundations for
CPHI 231	Ethics and Human Values	3 Credits
Detailed analyses of selected moral phi ethical issues are examined.	losophers and various approaches to value theory in conjunction w	vith specific contemporary
CPHI 241	Philosophy of Religion	3 Credits
	emporary and classical issues of religion. Topics include proofs for sperience, and the reliability of religious truth claims.	the existence of God, the
СРНІ 251	Business Ethics	3 Credits
	business practices including corporate responsibility, conflict of lvertising, environmental protection, preferential hiring, affirmative	
CPHI 254	Media Ethics	3 Credits
restrictions that are, or ought to be, in	ith mass media. Discussions of the pervasive influence of the media, posed on the media. Topics include the nature of various media, v and the media, the influence of television on children, the right	alue assumptions in news
СРНІ 262	Science, Technology, and Human Values	3 Credits
Exploration of fundamental value questi science to technology and industry.	ons and dilemmas associated with training and research in the scienc	es. Includes applications of
СРНІ 262Н	Science, Technology, and Human Values	3 Credits
Exploration of fundamental value quest		
science to technology and industry. Satis	ons and dilemmas associated with training and research in the scien fies General Education Core requirement for religion or philosophy.	ces. Covers applications of
science to technology and industry. Satis		ces. Covers applications of 3 Credits
CPHI 331 The first of a two-semester survey of th	fies General Education Core requirement for religion or philosophy.	3 Credits nts to Greek philosophy in
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of e	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder	3 Credits nts to Greek philosophy in
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and of	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the antecede origin through Greek and Medieval thought. Students may take eith	3 Credits nts to Greek philosophy in her CPHI 331 or CPHI 332 3 Credits ents to Greek philosophy in
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eith History of Western Philosophy the major figures in western philosophy, beginning with the anteceder	3 Credits nts to Greek philosophy in her CPHI 331 or CPHI 332 3 Credits ents to Greek philosophy in
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and a both in sequence. CPHI 353	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eith History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C	3 Credits Ints to Greek philosophy in Inter CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in IPHI 332 independently or 3 Credits
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and a both in sequence. CPHI 353 Classic philosophical problems explored	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eith History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C Representative Problems of Philosophy	3 Credits Ints to Greek philosophy in Inter CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in IPHI 332 independently or 3 Credits
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of of independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and of both in sequence. CPHI 353 Classic philosophical problems explored class research and independent thought. CPHI 362	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eithe History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C Representative Problems of Philosophy in more depth than that at the introductory level. Students are encou	3 Credits Ints to Greek philosophy in Iter CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in CPHI 332 independently or 3 Credits Intaged to engage in out-of- 3 Credits
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and a both in sequence. CPHI 353 Classic philosophical problems explored class research and independent thought. CPHI 362 Examination of philosophical assumptio	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eithe History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C Representative Problems of Philosophy in more depth than that at the introductory level. Students are encou Social and Political Philosophy	3 Credits Ints to Greek philosophy in Iter CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in CPHI 332 independently or 3 Credits Intaged to engage in out-of- 3 Credits
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and a both in sequence. CPHI 353 Classic philosophical problems explored class research and independent thought. CPHI 362 Examination of philosophical assumptio rights, and the individual and society. CPHI 362H	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eithe History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C Representative Problems of Philosophy in more depth than that at the introductory level. Students are encou Social and Political Philosophy ns underlying different political systems. Topics include the nature or	3 Credits Ints to Greek philosophy in her CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in PHI 332 independently or 3 Credits Intaged to engage in out-of- 3 Credits f social existence, freedom, 3 Credits
CPHI 331 The first of a two-semester survey of th Africa. CPHI 331 covers the period of a independently or both in sequence. CPHI 332 The second of a two-semester survey of Africa. CPHI 332 includes modern and a both in sequence. CPHI 353 Classic philosophical problems explored class research and independent thought. CPHI 362 Examination of philosophical assumptio rights, and the individual and society. CPHI 362H Examination of philosophical assumpti	fies General Education Core requirement for religion or philosophy. History of Western Philosophy e major figures in western philosophy, beginning with the anteceder origin through Greek and Medieval thought. Students may take eithe History of Western Philosophy the major figures in western philosophy, beginning with the anteceder contemporary philosophers. Students may take either CPHI 331 or C Representative Problems of Philosophy in more depth than that at the introductory level. Students are encou Social and Political Philosophy ns underlying different political systems. Topics include the nature of Social and Political Philosophy	3 Credits Ints to Greek philosophy in her CPHI 331 or CPHI 332 3 Credits Ints to Greek philosophy in PHI 332 independently or 3 Credits Intaged to engage in out-of- 3 Credits f social existence, freedom, 3 Credits

CPHI 401/402	Off-Campus Study	3 Credits ea.
For students who wish to take courses of their major program.	at institutions other than those offered at the Atlanta University Cente	r or to study abroad as part
CPHI 411	Islamic Philosophy	3 Credits
	hilosophical concerns of selected thinkers and schools of thought in thistorical figures and philosophic and religious traditions, including Is	
СРНІ 421	Philosophies of the African Continent	3 Credits
An examination of the diversity of Afr studied.	rican philosophical thought. Intellectual traditions from both north a	nd Sub-Saharan Africa are
СРНІ 431	African-American Philosophy	3 Credits
	tative of the African-American philosophical tradition. Insight into th osophizing. Also emphasizes issues in social philosophy, ethics, and rel	
CPHI 451 - 454	Special Topics in Philosophy	3 Credits ea.
Upper-division students explore issues	with present-day philosophical significance. Open to both majors and 1	ion-majors.
CPHI 482/483	Independent Study	3 Credits ea.
Development of analytical and interpre-	etive skills. In consultation with an instructor, upper-division students equires extensive reading and written work.	s may select an appropriate
CPHI 484 - 487	Para-Curricular Study in Philosophy	3 Credits ea.
Students with approval of their advisor	s may select internships that prepare them for their prospective career	choices.
CPHY 102/102L	Physical Science and Laboratory	3 Credits
motion, space sciences, chemical proce	n satisfies the core science requirement for all non-science majors. sses, conservation of energy, and properties of heat, electricity and lig b attend one (1) two-hour laboratory each week.	
CPHY 104/104L	Introduction to Earth System Science and Laboratory	4 Credits
fundamentals of the hydrologic cycle, in concepts of astronomy. Students are al the core science requirements for all no		tmosphere, and elementary
СРНУ 105	Orientation to Earth System Science	
An introduction to the opportunities, ca	reer choices, problems and curricula in the Earth System Science Prog	ram.
CPHY 106/106L	Introduction to Earth System Science II and Laboratory	4 Credits
photographs, map projections, geolog	pics covered in CPHY 104. Topics include isostasy, origin of mag ic maps, water balance, and observational astronomy. Environmenta quake, and groundwater risks. This course fulfills the requirement for ence. <i>Prerequisite</i> : CPHY 104.	al hazards will be studied
CPHY 111/111L	General and Modern Physics I and Laboratory	4 Credits
majors. Topics include introduction to	ents who desire a basic background in physics. This course is required basic physics concepts of mechanics, heat, and sound with emphas nree (3) lecture hours and one (1) three-hour laboratory per week. Pro lgebra and trigonometry.	is on applications in broad
CPHY 112/112L	General and Modern Physics II and Laboratory	4 Credits
	students to basic principles in the physics of electricity, magnetism, ee-hour laboratory per week. <i>Prerequisite</i> : CPHY 111.	optics, and atomic physics
CPHY 121/121L	Physics I: Mechanics and Laboratory	4 Credits
laws of conservation of momentum an	dents with a background in basic calculus. Topics include resolution of d energy, rectilinear motion at constant acceleration, rotational moti ate courses. Three (3) lecture hours and one (1) three-hour laborat	on, and oscillatory motion
CPHY 122/122L	Physics II: Electricity and Magnetism and Laboratory	4 Credits
circuits, fields and potentials, and elect	plore electromagnetic forces, induction, static and time-dependent ele cromagnetic waves. CPHY 122 and CPHY 122L are separate courses. T requisite: CPHY 121. Pre- or <i>Co-requisite</i> : CMAT 112.	

CPHY 123/123L	Physics III: Optics and Modern Physics and Laboratory	4 Credits
optics, physical optics, atomic physics an week for the CPHY 123 course, and one	22. Topics include wave propagation, sound, heat, and principles of t ad nuclear physics. CPHY 123 and CPHY 123L are separate courses. T (1) three-hour laboratory per week for the CPHY 123L laboratory of	Three (3) lecture hours per
122. CPHY 211	Modern Physics	3 Credits
	cs, with emphasis on the experimental foundation of these subjects. T	
	y of matter, Rutherford scattering, photoelectric effect, production an omic spectra, radio activity, elementary particles, and particle acceler	
СРНҮ 301	Co-Operative Education Program	3 Credits
experiences, students must secure appr	king during the academic year in approved industry positions. To rec oval from the department chair, who will arrange internships with p his procedure will not receive cooperative academic credit.	
СРНУ 312	Optics	4 Credits
instrumentation, physical optics (diffract	light and the interactions of light and matter. Topics include geor tion and interference effects), spectroscopy and interferometry. Certa are discussed. Three (3) one-hour lectures and one (1) three-h	in topics in modern optics,
СРНУ 321	Mathematical Physics I	3 Credits
include infinite sequences and series,	to physical systems. Course surveys basic concepts of differential an systems of linear determinants and matrices, and special function o physics and chemistry. Three (3) one-hour discussion and pro	s. The course emphasizes
СРНҮ 322	Mathematical Physics II	3 Credits
	lude partial differentiation, multiple integral, first- and second-o solving differential equations, vector algebra, vector analysis, p	
СРНҮ 331	Classical Mechanics	3 Credits
mathematical formalism in vector analy	of classical physics and the mathematical techniques used therein. S rsis, hydrodynamics, and electromagnetism. Other topics include Gal odies, oscillations, wave motion, and Lagrangian mechanics. Prerequi	ilean relativity, kinematics
СРНҮ 332	Electromagnetic Theory	3 Credits
conductors, electric current, fields of me current circuits, electric fields in matter,	of electromagnetism. Students explore electrostatic fields and poten oving charges, magnetic fields, and electromagnetic induction. Maxw free oscillations in systems with many degrees of freedom, forced os flection, polarization, and interference and diffraction. Prerequisite : C	ell's equations, alternating cillations, traveling waves,
CPHY 341L	Advanced Physics Laboratory	3 Credits
	priments of physics such as the measurement of the charge to mass ra and others. Advanced laboratory techniques and data analysis are a	
СРНҮ 350	Physics of Earth Systems	3 Credits
	sorption and emission of radiation, solar and terrestrial radiation, rad s, role of greenhouse gases, aerosols and clouds in climate change.	liative transfer and heating
СРНҮ 353	Weather Analysis and Prediction	4 Credits
Provides an introduction to atmosphered for ecasting.	ric structure and synoptic meteorology. Laboratory exercises incl	ude weather analysis and
СРНҮ 355	Atmospheric Thermodynamics	3 Credits
	tate, first and second laws of thermodynamics, thermodynamics of d namic atmospheric stability. Prerequisites : CMAT 211 and CPHY 121.	ry and moist atmospheres,
СРНҮ 357	Atmospheric Aerosols	4 Credits
aerosols, spatial distribution of aerosol p	rosol particles, natural and anathropogenic sources, techniques for particles, the role of particles in atmospheric chemistry, air pollution a on atmospheric visibility. Topics also include radiative effects and i	nd cloud formation, as well
climate. <i>Prerequisites</i> : CMAT 211 and Cl		
CPHY 360	Numerical Methods in Earth System Science	3 Credits
	an be represented in form as ordinary and partial differential equa nd the physical aspects of geoscientific phenomena using mather d CPHY 121.	-

СРНҮ 365	Dynamics of the Earth System	3 Credits
	and oceanic motion: analysis of forces; accelerated reference frame	
mass, momentum and energy; scaling; vorticity. Prerequisite : CPHY 355.	pressures coordinates; geostropic and gradient flow; thermal wind;	trajectories; circulation and
СРНҮ 370	Earth System Measurements	3 Credits
	gical and atmospheric instruments, static and dynamic performance urement systems. <i>Prerequisites</i> : CCIS 103, CMAT 211, and CPHY 121	
СРНҮ 375	Instrumentation Electronics	4 Credits
	est instruments, electronics mathematics, DC and AC circuit analysis, id state electronics, components and transducers. <i>Prerequisites</i> : CPH	
CPHY 411	Thermodynamics and Statistical Mechanics	3 Credits
	thermodynamics and its relation to statistical mechanics. Topics in ctions and their application to simple systems. <i>Prerequisite</i> : CPHY 32	5
СРНУ 412	Introduction to Quantum Mechanics	3 Credits
	enberg's Uncertainty Principle, and Schrodinger's Wave Equation, w atomic spectra, first-order perturbation theory, spin orbit inter	
СРНҮ 421	Undergraduate Research I	3 Credits
techniques and require considerable in	y of experimental and theoretical research in physics. Experiments ndependent reading and investigation. Individual schedules are arra st and experience. Prerequisite : Permission of department chair requ	nged at the beginning of th
CPHY 422	Undergraduate Research II	3 Credits
techniques and require considerable in	gy of experimental and theoretical research in physics. Experiments independent reading and investigation. Individual schedules are arra est and experience. Prerequisite : Permission of department chair requ	nged at the beginning of th
СРНҮ 441	Internship I	3 Credits
academic credit for internship, studen monitors at specific work sites. Student	ents during the summer months. Interns may work in Atlanta or ir ts must secure approval from the department chair, who will arran s who do not follow this procedure will not receive internship academ	nge internships with projection of the second se
СРНУ 442	Internship II	3 Credits
academic credit for internship, studen	ents during the summer months. Interns may work in Atlanta or ir ts must secure approval from the department chair, who will arran s who do not follow this procedure will not receive internship acaden	nge internships with projec
СРНҮ 445	Introduction to Micrometeorology	4 Credits
layer; viscous flows and turbulence	hear the surface; air temperature, humidity and wind distribution in ; neutral boundary layers, momentum and heat exchanges w icultural and forest meteorology. Prerequisite : CPHY 375.	
СРНҮ 450	Radiative Transfer and Passive Remote Sensing	4 Credits
radiation in the atmosphere, infrared	tion. Emphasis on solar radiation at the top of the atmosphere, scatter transfer in the atmosphere. Measurement of scattered sunlight of frared or microwave sensors. Prerequisite : CPHY 123.	
radiation in the atmosphere, infrared atmosphere using ultraviolet, visible, in	transfer in the atmosphere. Measurement of scattered sunlight of	
radiation in the atmosphere, infrared atmosphere using ultraviolet, visible, in CPHY 452 Principles of meteorology sensors; ra	transfer in the atmosphere. Measurement of scattered sunlight of frared or microwave sensors. <i>Prerequisite</i> : CPHY 123.	or radiation emitted by th 4 Credits sodar and lidar equation
radiation in the atmosphere, infrared atmosphere using ultraviolet, visible, in CPHY 452 Principles of meteorology sensors; ra applications and accuracy; interpretation	transfer in the atmosphere. Measurement of scattered sunlight of frared or microwave sensors. <i>Prerequisite</i> : CPHY 123. Active Remote Sensing dar principles; radar equation; radar application; radar accuracy;	or radiation emitted by th 4 Credits sodar and lidar equation
radiation in the atmosphere, infrared atmosphere using ultraviolet, visible, in CPHY 452 Principles of meteorology sensors; ra applications and accuracy; interpretation CPHY 460 Basic structure of the planet; detailed atmosphere; what happens to solar radiiving systems; chemical equilibrium temperature versus sunlight; Chapman aerosols on chemical change; the roled	transfer in the atmosphere. Measurement of scattered sunlight of frared or microwave sensors. <i>Prerequisite</i> : CPHY 123. Active Remote Sensing dar principles; radar equation; radar application; radar accuracy; on of data from active and passive remote sensing systems. <i>Prerequise</i>	a Credits sodar and lidar equations ite: CPHY 375. 4 Credits rolved from the primordia and its relation to ozone and hat depend primarily upon he simple model; the role of
radiation in the atmosphere, infrared atmosphere using ultraviolet, visible, in CPHY 452 Principles of meteorology sensors; ra applications and accuracy; interpretation CPHY 460 Basic structure of the planet; detailed atmosphere; what happens to solar radiiving systems; chemical equilibrium temperature versus sunlight; Chapman aerosols on chemical change; the roled	transfer in the atmosphere. Measurement of scattered sunlight of frared or microwave sensors. <i>Prerequisite</i> : CPHY 123. Active Remote Sensing dar principles; radar equation; radar application; radar accuracy; on of data from active and passive remote sensing systems. <i>Prerequis</i> Atmospheric Chemistry ed structure of the atmosphere; how the present atmosphere ev liation as it passes through the atmosphere; the presence of oxygen a and rates of reactions; differences between reactions with rates t 's theory of ozone formation in the stratosphere; improvements to t of chlorofluorocarbons on the "ozone hole"; chemical cycles in the	a Credits sodar and lidar equations ite: CPHY 375. 4 Credits rolved from the primordia and its relation to ozone and hat depend primarily upon he simple model; the role of
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СРНҮ 503	Electrodynamics	3 Credits
Maxwell's equations and applications; el moments and multiple radiation; dispers	ectrostatics, dielectrics, magnetostatics, scalar and vector potentials	; conservation laws; multiple
СРНУ 504	Modern Optics	3 Credits
	th Maxwell's equations including topics such as reflection and refr nce, lasers, holography, and the theory of optical wave-guides	
СРНУ 515	Quantum Mechanics I	3 Credits
	epresentation of dynamical variables as operators or matrices; the perturbation theory; identical particles and spin; theory of clas	
СРНҮ 516	Quantum Mechanics II	3 Credits
	epresentation of dynamical variables as operators or matrices; the perturbation theory; identical particles and spin; theory of clas	
СРНҮ 520	Thermodynamics and Statistical Mechanics	3 Credits
matrix; Bose and Fermi systems. Kinetic	irreversible processes; microcanonical, canonical and grand canon theory and the Boltzmann transport equation.	nical ensembles; the density
СРНУ 531	Mathematical Methods I	3 Credits ea.
	coordinates; the calculus of variations; functions of a complex va functions; orthogonal functions; integral transform methods; Gre	
СРНҮ 532	Mathematical Methods II	3 Credits
	coordinates; the calculus of variations; functions of a complex va functions; orthogonal functions; integral transform methods; Gre	
СРНУ 540	Solid State Physics	3 Credits
Brillouin zone treatment of metals, sen comparison between theory and experim	niconductors and insulators; approximation methods of determini nent for selected solid state phenomena.	ng properties of real solids;
СРНҮ 545	Atomic and Nuclear Physics	3 Credits
	processes. Hartee-Fock approximation, fine and hyperfine structur and collective models, correlation in nuclear matter.	re, atomic collision; nucleon-
СРНҮ 550	Physics of Fluids	3 Credits
	gneto-fluids and plasmas; Navier-Stokes equation, non-Newtonia netic theory, classical transport, turbulence.	in fluids, compressible and
СРНҮ 565	Physics of Surfaces	3 Credits
Fundamentals of physical methods for s the verification of principles in laborator	tudying the structures, compos vibrational and electronic propertie y experiments.	s of solid surfaces, including
СРНҮ 570	Radiation Physics	3 Credits
	ngnetic radiation with matter, radiation quantities and units; x- les with matter, stopping power, range-energy relations, counting st tion biology and ecology.	
СРНҮ 585	Applied Quantum Mechanics I	3 Credits
Application of quantum mechanical prin	ciples to the solution of selected problems in atomic, molecular, nucl	ear and solid-state physics.
СРНҮ 586	Applied Quantum Mechanics II	3 Credits
Application of quantum mechanical prin	ciples to the solution of selected problems in atomic, molecular, nucl	ear and solid-state physics.
СРНУ 601	Departmental Seminar I	0 Credit
Required of all graduate students in the		1
СРНУ 602	Departmental Seminar II	0 Credit
Required of all graduate students in the		1
СРНУ 603	Thesis Research	6 Credits

СРНУ 604	Non-Thesis Research	6 Credits
Designed for students who are in the assistance.	final stage of non-thesis research project writing, which requires	minimal supervision and
СРНҮ 605	Optical Fiber Measurements I	3 Credits
	e needed to master the basic concepts and laboratory techniques o ooth optical communications and sensors, using both multimode and s	
СРНҮ 606	Modern Optical Measurements II	3 Credits
	ments I with emphasis on more complex measurements and cali ication sources and detectors and communication systems.	bration on topics such as
СРНҮ 607	Advanced Optics	3 Credits
Surveys topics in advanced optics such dieletric media. <i>Prerequisite</i> : CPHY 504	as electromagnetic wave scattering and propagation in unperturbed (Modern Optics).	d, perturbed and nonlinear
СРНУ 610	Philosophy of Science	3 Credits
	al, and methodological presuppositions underlying physical theory an of scientific knowledge; social implications of scientific research.	d experiment; problems of
СРНҮ 615	Special Topics in Physics	3 Credits
Special topics of current interest such astrophysics, etc.	as general relativity, quantum field theory, scattering theory, e	lementary particle theory,
СРНУ 620	Introduction to Atmospheric Sciences	3 Credits
	ctroscopy of atomic and molecular species; photodynamics and phot uding infrared, atomic emissions, and atomic absorption.	okinetics of photochemical
CPSC 106	Politics and Global Issues	3 Credits
surveys the various fields of Political	neral Education Core. The course introduces students to the discipli Science and comparative politics, political theory, and internation nology and the learning skills of critical thinking, writing, and speaking	onal relations. The course
CPSC 219	American Government and Politics	3 Credits
This is an introductory course providing process that shapes public participation	g understanding of the institutions and ideas basic to the American p and governmental decision.	olitical experience and the
CPSC 220	Introduction to Public Policy	3 Credits
emphasizes effects of policy programs	ee major policy areas: health, income inequality (poverty), and huma on a variety of groups and the overall costs and benefits of policie obs, aggregate data, and conventional case-study readings.	
CPSC 221	State and Local Government	3 Credits
	f state and local governmental institutions, the tools of political pa icies, and the role state and local governments play in the federal syst	
CPSC 309	Introduction to Urban Planning	3 Credits
	the history, theories, and activities of urban planning. Students discu particularly as these relate to planning for human resource developm	
CPSC 313	Urban Politics and Policy	3 Credits
attention to the formulation and impact of	is the focus of this course with primary focus on the use of power and of public policies and to the conditions and politics of minorities in urb	
CPSC 315	Comparative Politics	3 Credits
Students are introduced to the subfield of the way they function, and the uniformities	of comparative politics and the use of key analytic concepts to general les and variations in political systems.	ize about political systems,
CPSC 319	Electoral Politics	3 Credits
	tions, political parties, electoral methods, and the practical aspects of political questionnaires and polling and examine the platforms of pol	
CPSC 322	International Relations	3 Credits
deterrence, interdependence, coercive di	basic concepts of international relations, including foreign policy plomacy, and international systems. Special attention is given to major d War era, the politics of international economics, and the influence	or regional and global wars,
CPSC 336	Current World Problems	3 Credits
	emporary world issues, particularly as they affect the United States. F nsive research on policies, problems, and solutions and lead class dis	

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CPSC 337	Statistics I	3 Credits
requirements.	cluding associational measures and probability. <i>Prerequisite</i> : Gene	ral Education mathematics
CPSC 338	Statistics II	3 Credits
This course is an introduction to inferent Prerequisite : CPSC 337.	tial statistics, hypothesis testing, simple use of analysis of variance, a	and correlation coefficients.
CPSC 352	American Foreign Policy	3 Credits
covered include historical evolution of	ormulation and execution of American foreign policy and its purpo U.S. foreign policy, economic and political factors, national and in or problems faced by recent presidential administrations.	
CPSC 361	Political Theory I	3 Credits
Major political ideas, from Machiavelli to of power, legitimacy, authority, liberty, a	pre-Marxian socialism, are covered throughout this course, with a sp nd equality.	becial focus on the concepts
CPSC 362	Political Theory II	3 Credits
Major political ideas of the nineteenth communism, liberalism, and nationalism	and twentieth centuries are examined, including modern notions	s of democracy, socialism,
CPSC 371	Science and Public Policy	3 Credits
	science and the scientific method as applied to public policy. Governme role of expertise in policy making and the possible social effects of	
CPSC 372	Comparative Public Policy	3 Credits
	cce of major public policies affecting the United States and other cou Students explore the "how, why, and what" of government action in p ion, and income maintenance.	
CPSC 374	Constitutional Law	3 Credits
	e U.S. Constitution using the case study method. Among topics cover taxation, and spending powers. This course is highly recommended	
CPSC 375	Political and Civil Rights	3 Credits
CPSC 375 Political and personal freedoms under t	the Bill of Rights and the Fourteenth Amendment to the U.S. Constitution in and human rights is stressed. This course is especially recommended	ution are examined. Sound
CPSC 375 Political and personal freedoms under t analysis of the principles underlying civ	the Bill of Rights and the Fourteenth Amendment to the U.S. Constitution in and human rights is stressed. This course is especially recommended	ution are examined. Sound
CPSC 375 Political and personal freedoms under t analysis of the principles underlying civ attend law school. <i>Prerequisite</i> : CPSC 37 CPSC 387 This course provides a formal introduc research method and skills students will	the Bill of Rights and the Fourteenth Amendment to the U.S. Constitution and human rights is stressed. This course is especially recommender of the instructor.	are examined. Sound ed for students planning to 3 Credits and essential social science social issues. Students learn
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CPSC 486	Internship	3 Credits	
	re made available to juniors and seniors majoring in Political Science		
and in public interest organizations. Activities include attending seminars and completing research papers. <i>Prerequisite</i> : Approval by			
the department chair required.		1	
CPSC 487	Internship	3 Credits	
Varied internship placement programs are made available to juniors and seniors majoring in Political Science at all levels of government and in public interest organizations. Activities include attending seminars and completing research papers. <i>Prerequisite</i> : Approval by the department chair required.			
CPSC 490	Washington Internship in Public Policy	3 Credits	
This is an opportunity for a one-semester internship placement in a Washington, D.Cbased agency or organization. Students attend seminars, work in a Congressional office, and produce a significant research paper documenting experiences and new learning. The internship is open to students in all majors who have outstanding academic records and are interested in careers in the public sector or current issues confronting the disadvantaged.			
CPSY 211	General Psychology	3 Credits	
Psychology is defined as the scientific study of mental processes and behavior. This course is designed to give the student an overview of the field in terms of its evolution, theories and theorists (e.g., psychoanalytic, behavioral, humanistic, cognitive, etc.) specialties in the field (e.g., Clinical, Experimental, Engineering, Forensics, Industrial/Organizational, Physiological, School, Social, etc.,), and research methods (e.g., data collection, data analysis, research design). General Psychology provides the foundation for more advanced study in psychology for its majors and introduces non-majors to human behavior from a psychological perspective.			
CPSY 211H	General Psychology	3 Credits	
Survey of the history, basic principles, a Satisfies General Education Core require	nd major areas of research in psychology, including contributions n	ade by African Americans.	
CPSY 218	Human Growth and Development	3 Credits	
	d d research on the cognitive, social, personality, and physical developr erspective with emphasis on the influences of gender and culture.	nent of humans throughout	
CPSY 301	Educational Psychology	3 Credits	
include: Classroom management, curriculum development, educational intervention strategies, educational technology, gifted students, instructional design, learning styles, organizational learning, school culture, special education students, teaching styles, testing, etc. The course is taught from two perspectives, namely teachers and students. For example, for prospective teachers it provides an overview of the basic principles, theories, and techniques from a psychological perspective as related to learning; and for students the course is designed to help students identify common problems teachers confront in the classroom and to then apply course material to develop a plan to resolve typical problems in classroom situations.			
CPSY 313	Statistics I	3 Credits	
measures of central tendency and var	riptive statistics and the basic components of experimental design. iation, making and interpreting graphs, and organizing data. It al t and Chi-Square. Prerequisites : CMAT 105 and CPSY 211.		
CPSY 314	Statistics II	3 Credits	
Students are introduced to inferential statistics, non-parametric statistics, and hypothesis testing in this course. Students learn how to use a variety of statistical tests, both parametric and nonparametric, for example, regression analysis, T-Tests, complex Chi-Square, independent and repeated analysis of variance tests, and Mann-Whitney U and Wilcox signed-ranks tests. <i>Prerequisites</i> : CPSY 211, CPSY 313, and CMAT 105.			
CPSY 315	Social Psychology	3 Credits	
Social Psychology is described as the scientific study of the effects of both the individual on society (e.g., cognitions, perceptions, attitudes, social and personality characteristics, etc.,) and society on the individual (e.g., social norms, stereotypes, prejudice, discrimination, social influences—compliance, obedience, conformity, etc.). The course will: (1) give students the opportunity to acquire a basic awareness of this subfield in psychology, that is, theories and research, (2) allow students to gain experience in the application of the principles of Social Psychology, and (3) enable students to develop an empirically sound research proposal under the guidance of the instructor. <i>Prerequisite</i> : CPSY 211 and CPSY 313.			
CPSY 316	Introduction to Psychological Testing	3 Credits	
students will learn about the basic type	an appreciation of theory and practical applications regarding psych is of tests used in schools, forensics, as well as medical and clinical scoring, administration, use, and interpretation of group and individ tes: CPSY 211 and CPSY 313.	settings. The construction,	
CPSY 318	Industrial/Organizational Psychology	3 Credits	
Industrial/Organizational Psychology is also referred to as Applied Psychology. It is the subfield of psychology that focuses on behavior in the workplace. For example, topics discussed in the class include: Employee behavior, motivation, performance, compensation, leadership, management systems, job satisfaction, personnel recruitment and selection, organizational effectiveness, organizational culture, professional development and training, how to manage change, etc. Prerequisites : CPSY 211 and CPSY 313.			

CPSY 320	Social and Personality Development	3 Credits	
The Social and Personality course is a subfield of Social Psychology and is designed to cover theories of social and personality development from conception through adolescence. Classic theories and research as well as modern theories in the field will be examined. Different aspects or influences on a person's social and personality development will be discussed (e.g., emotions, attachments, achievement, sex differences and gender roles, altruism, aggression, cognitive and moral development, individuality, culture, environment, family, peers, school, television, etc.). <i>Prerequisite</i> : CPSY 211.			
CPSY 330	African-Centered Psychology	3 Credits	
This course provides a thorough overview of topics that go beyond western-oriented approaches to psychology. It will provide students with information about the major approaches to the psychology of African people with particular emphasis on the experiences of African Americans. The Afrocentric and Eurocentric approaches to the understanding of African people will be examined extensively. Theoretical papers, research, and philosophical discussions about what Black/African Psychology is, how it should be studied, and how it can be utilized as a tool for empowerment and psychological liberation are also considered. <i>Prerequisite</i> : CPSY 211.			
CPSY 358	Human Sexuality	3 Credits	
exposure agent in deciphering commor discussing issues relevant to interperso biological, social, religious, ethical, lega	cal aspects, current practices and future research directions of sex uly held beliefs about sexuality. Through an empirical lens, this co nal and intimate relationships. Historical and different cultural view al and personal issues on sexual expressions, perceptions, cognition prtunity to engage in an assigned research project.	urse provides a forum for ws of sexuality, along with	
CPSY 371	Experimental Psychology	3 Credits	
and data analysis. Students learn about e how to: (1) differentiate between scienti implement different research designs in	Experimental Psychology is used to help students acquire skills in the use of the scientific method, investigative methods, data collection and data analysis. Students learn about experimental, correlational, and quasi-experimental research designs. In addition, they will learn how to: (1) differentiate between scientific and non-scientific research methods, (2) identify different types of research designs, and (2) implement different research designs in the laboratory. Students must enroll in the Experimental Psychology Lab at the same time that they enroll in this course. <i>Prerequisites</i> : CPSY 211 and CPSY 313.		
CPSY 371L	Experimental Psychology Laboratory	1 Credit	
course. It provides a structured research	ed to enable students to apply the knowledge they obtained in the setting in which students are guided through the research process a variety of ways in a series of assigned experiments.		
CPSY 377	History and Systems of Psychology	3 Credits	
This course is essentially the history of psychology. It presents information on the philosophical, scientific, social, and religious antecedents that led to the development of Psychology as an independent, scientific field of study. The evolution of the different paradigms in the field at different times (e.g., structuralism, functionalism, gestalt, psychoanalytic, behavioral, cognitive, humanistic, etc.) are examined in detail. That is, classic and modern theories and theorists will be explored. Individuals who made significant contributions to the field will be examined as well. Students are also introduced to the contributions of individuals from different cultures and women to the field of psychology. <i>Prerequisite</i> : CPSY 211.			
CPSY 385	Abnormal Psychology	3 Credits	
symptoms, and treatment. It is essential factual knowledge in the area of abnorn cognitive, humanistic, etc.). In addition, understand ethical and legal considerat	the scientific study of psychopathology, including history, demog ly an undergraduate's overview of Clinical Psychology. Students are nal psychology, especially diagnosis (e.g., DSM) and treatment (e.g., students will be able to: (1) identify common flaws in psychological ions in the practice of psychology, and (3) assess the validity and by new content areas in the field such as the impact of culture, gen	introduced to research and psychoanalytic, behavioral, research and practice, (2) reliability of psychological	
CPSY 410	Organizational Behavior	3 Credits	
Organizational Behavior is a subfield in the area of Industrial/Organizational Psychology and also has its roots in the area of Social Psychology (e.g., group dynamics). This course is designed to introduce the student to the many different ways that individuals, groups and structures in the organization impact the behavior in the work place as well as the effectiveness of the organization and the employees. Different theories are presented to help the student understand organizational development, management, and performance. Prerequisite: CPSY 211.			
CPSY 413	Learning	3 Credits	
Topics examined include: Instinctive	n about the classic and current theories and research on the process (i.e., emitted) and learned (i.e., elicited) behaviors, classical a nation and generalization, as well as social, observational, and insigh prequisite: CPSY 211.	ind operant conditioning,	
CPSY 415	Physiological Psychology	3 Credits	
neurological structure and function. Maj	student to the scientific study of the physiological aspects of human h or topics include the basic structure and function of neurons and the nking, sexual behavior, sleep and dreaming, and drug abuse. Prerequ	nervous system as well as	

CPSY 417	Independent Research	3 Credits
Independent Research is the course that is used to provide the student with guidance through the implementation of the scientific method (i.e., conducting research) under the tutelage of the instructor; that is, application of knowledge learned. Students work on individual or group projects as specified and agreed upon by both the student and instructor. A student could also be given an opportunity to work on research that the professor is already engaged. Normally the culmination of the research will result in an oral or poster presentation at a local, state, regional, national or international conference, and/or a publication. Independent Research can be taken twice for a total of six (6) credit hours. Time and place for the course will be provided from the instructor. <i>Prerequisites</i> : CPSY 211, CPSY 313, CPSY 314, CPSY 371, and permission of the instructor.		
CPSY 418	Senior Seminar	3 Credits
the field. Diverse topics in psychology, with psychological implications are also	pportunities to integrate their knowledge of psychology with current such as job opportunities, test preparation, graduate school opport explored. Students will be guided through the process for graduation, job placement, and/or professional schools. <i>Prerequisites</i> : CPSY 2	inities, and current events preparations for careers in
CPSY 419	Behavior Genetics	3 Credits
about the influence of genetics on bel individual and group differences relatin language, learning, sexuality, and related	science involving psychology, statistics, genetics, biology, etc. In this navior. They will study genetic (and therefore non-genetic) influe g to psychological phenomenon including personality, psychopathole medical conditions. <i>Prerequisite</i> : CPSY 211.	nces and contributions to ogy, intelligence, addiction,
CPSY 420	Special Topics in Psychology	3 Credits
classroom. Faculty may also decide to Development, African Centered Psycholo course could serve as a psychology elect	Ity members in the Department to explore their interests or the intere- present a course based on his/her area of expertise (e.g., Forens: ogy, Psychopharmacology, etc.) or a specific need of the students (e. ive for majors and as a general elective for all other majors. As long a f times a student can take the course for credit since majors are require	ics, Social and Personality g., APA writing style). This is the content of the course
CPSY 421	Psychochemistry	3 Credits
the influence of chemistry on behav	nes the relationship between chemicals, behavior and psychological j ior. In this course students will study and learn neurochemi companying emotional, motivational, and learned behaviors. Prerequi	cal, pharmacological, and
CPSY 480	Independent Study	3 Credits
	dents with an opportunity to individualize their plan of study. Ind- nember, and the student is required to follow detailed plans of self- ission of the instructor.	
CPSY 483	Independent Study	3 Credits
to individualize their plan of study. Inde	th has successfully completed CPSY 480. It is developed to provide stu ependent Study is done in consultation with a supervising faculty m directed study on topics of the students' choice. Prerequisites : CPSY	nember, and the student is
CPSY 488	Internship	3 Credits
that would provide them with practical e (3) hours each week under the direct research center, private practice, hospita at least sixty (60) hours in the field. S evaluation from the supervisor as well instructor of the course. Students are al work to their peers and instructor which University-wide service requirement. Pro CPSY 491 This course can be taken after the stude student with a semester of firsthand exp the subfield of psychology in which they professional within a designated agency	provides the student with a semester of firsthand experience workin experience in the subfield of psychology in which they are interested. supervision of a professional within a designated agency (e.g., sch l, business, etc.) and a faculty member of the Department of Psycholog tudents are placed in the Internship by the faculty member and a as return their evaluations of the site to the faculty member. Both so exposed to ethical practices in the field and required to make a for a will be evaluated by the instructor. This course is required for its merequisites: CPSY 211 and junior or senior standing. Internship nt has successfully completed CPSY 488. This is an experiential learn erience working in a psychological setting that would provide them v are interested. Interns work at least three (3) hours each week under (e.g., school, mental health facility, research center, private practice, I	Interns work at least three ool, mental health facility, gy; students must complete re expected to obtain the forms are provided by the ormal presentation of their ajors and also satisfies the 3 Credits hing course. It provides the vith practical experience in the direct supervision of a hospital, business, etc.) and
the Internship by the faculty member and the site to the faculty member. Both form the field and required to make a formal p	Psychology; students must complete at least sixty (60) hours in the fid are expected to obtain the evaluation from the supervisor as well as ns are provided by the instructor of the course. Students are also exp presentation of their work to their peers and instructor which will be e al also satisfies the University-wide service requirement. Prerequisite	return their evaluations of osed to ethical practices in evaluated by the instructor.

CPSY 492	Cooperative Education Experience	3 Credits	
psychological work and a better underst sponsoring agency and University Coope	for students to work in a psychological agency in order to acqui anding of human relations. Students design their cooperative experie erative Education personnel, ensuring that the proposed experience p 11 and approval by the department chair.	nce in collaboration with a	
CPSY 495	Cooperative Education Experience	3 Credits	
work in a psychological agency in orde relations. Students design their cooperat	This course can be taken after the student has successfully completed CPSY 492. This course provides an opportunity for students to work in a psychological agency in order to acquire practical experience in psychological work and a better understanding of human relations. Students design their cooperative experience in collaboration with a sponsoring agency and University Cooperative Education personnel, ensuring that the proposed experience parallels and enhances their academic studies. <i>Prerequisites</i> : CPSY 211, CPSY 492, and		
CREL 101	The Biblical Heritage	3 Credits	
	nd its influence on the shaping of Western culture. Modern biblical sch nts noting their contributions to the understanding of human existenc		
CREL 103	African-American Religious Experiences I	3 Credits	
Provides analysis of the origin, developr perspective.	nent and social significance of African-American religious beliefs and	practices from a historical	
CREL 104	African-American Religious Experiences II	3 Credits	
Emphasizes the contemporary period, in	cluding the latest developments in black liberation theologies.		
CREL 211	Introduction to Religious Studies	3 Credits	
An introduction to the study of religior literary. Readings include representative	h in a variety of contexts: historical, social, psychological, scientific, works from the past and present.	philosophical, artistic, and	
CREL 241	American Religious Tradition I	3 Credits	
CREL 242	American Religious Tradition II	3 Credits	
	-		
CREL 250	Comparative Religion	3 Credits	
Course offers a comparative survey of Hinduism, Buddhism, Confucianism, Tao	selected religious traditions from the East and West, including tra ism, Judaism, Christianity and Islam.	aditional African religions,	
CREL 251	Religious Ethics	3 Credits	
Examines major ethical issues confronting contemporary society and considers appropriate ethical responses to issues from a religious perspective. Topics include sexual ethics, abortion, racism, sexism, the ethics of war (especially nuclear war), capital punishment, genetic engineering, euthanasia, and professional ethics.			
CREL 351	History of Christian Thought I	3 Credits	
	the early church to the present. CREL 351 covers early and medie I female mystics, and concludes with the Protestant Reformers.	eval thinkers in Africa and	
CREL 352	History of Christian Thought II	3 Credits	
Examines major Christian thinkers of the take either 351 or 352 course independe	e modern period, including the latest developments in black and femir ntly or both in sequence.	nist theology. Students may	
CREL 361	Culture and Religion	3 Credits	
A study of structure, function, and influe literature. Explores the origin, significant	nce of religion from a cultural perspective. Drawing from recent socio ce, and relation of religion to culture.	logical and anthropological	
CREL 362	Psychology of Religion	3 Credits	
	eligious experience by means of psychological study. Entails critical of ical theories as these apply to evaluating the impact of religious experi		
CREL 375	Religion and the Media I	3 Credits	
	istorical and philosophical interpretations of religion in the media, 75 focuses on theory. Students may take either CREL 375 or CREL 37		
CREL 376	Religion and the Media II	3 Credits	
	Historical and philosophical interpretations of religion in the media, 76 focuses on media techniques. Students may take either CREL 375 c		
CREL 383	Religions of Africa	3 Credits	
Examines representative religious tradit	ions of Africa, including African tribal religions and adaptations of non	-indigenous ones.	

CREL 401/402	Off-Campus Study	3 Credits ea.
	at institutions outside of the Atlanta University Center or to study ab	road as part of their major
CREL 435	Contemporary Religious Thought	3 Credits
movements of the present century. To	us thought, with emphasis on critical examination of representat pics include rethinking of the concept of God; the rise of ethical uch as process, black theology, feminist, and metaphorical theologies.	
CREL 451 - 454	Special Topics in Religion	3 Credits ea.
situations. Topics such as religion and se	t issues and thinkers in religion and ethics in the context of prof exuality, world missions, religious motifs in the arts, liberation theolog credit under a different topic. Open to Religion and Philosophy major	gy, and religion and politics
CREL 482/483	Independent Study	3 Credits ea.
appropriate subject for study. Independe	lytical and interpretive skills, students in consultation with their ent Study requires extensive reading and written work.	1
CREL 484 - 487	Internship	3 Credits ea.
In consultation with their advisors, stude	ents may select an internship that articulates with their prospective ca	reer choices.
CSB 5606	Advanced Auditing and Analytical Procedures	3 Credits
statements; evaluate the reasonableness plan the nature, timing, and extent of	nderstand a client's business; identify unusual trends, relationships, s of the numbers in financial statements; identify potential risks asso audit procedures. Students utilize available research materials, da ddress relevant issues. Emphasis is on analysis, teamwork, writing, ar	ociated with the audit; and tabases, personal auditing
CSB 5690	Governmental and Nonprofit Accounting	3 Credits
certification in these areas. Government	rrn and nonprofit accounting and financial reporting, and prepares tal accounting is studied using the textbook and incorporating real- e knowledge needed to work with nonprofits as auditors, board memb	world examples. Nonprofit
CSB 6618	International Accounting	3 Credits
Identifies the primary issues in the area of global financial reporting with a focus on multinational business risks and accounting implications, regulation of accounting and attestation in different countries, and reporting financial performance in a global context. The class considers how international reporting requirements help or hinder access to capital markets and examines the current state of convergence toward global reporting standards.		
CSB 6620	Cost Management Systems	3 Credits
	resources costs and resource consumption explicitly directed at strat value chain analysis, strategic cost management, and cost driver anal	
CSB 6621	Current Accounting Theory and Practice	3 Credits
	ms that arise from mergers and acquisitions and from complex, multi ass acquisitions, consolidation of financial statements, and cross-curre e, discussion, and problem-solving.	
CSB 6623	Advanced Accounting Information Systems	3 Credits
Study of accounting system data security expense cycles and computer assisted au	γ, fiduciary and reliability risks and mitigating internal controls. Empl dit techniques.	hasis is on the revenue and
CSB 6628	Forensic Accounting	3 Credits
	ion techniques, and an in-depth discussion of how to assist an audit of include investigating theft and concealment, conversion investigating theft and concealment, conversion investigating theft and concealment.	
CSB 6630	Professional Accounting Internship	3 Credits
profit organization. Students gain rele	er the direction of a faculty member, in a public accounting firm, corporvant practical experience which builds on prior coursework and luate coursework. <i>Prerequisite</i> : Approval by the department chair.	
CSCJ 105	Culture and Society	3 Credits
	t affect behavior and values. Students consider among others, is iety, racial and sexual inequality and the interaction between culture a	
CSCJ 201	Introduction to Criminal Justice	3 Credits
functions and responsibilities of various	and progress of criminal justice systems in the United States, incl agencies of the Criminal Justice Systems.	-
CSCJ 205	Law Enforcement	3 Credits
A comprehensive survey of the history and functions of the law enforcement agency, including discussions of selected topic dealing with contemporary problems affecting law enforcement.		

arrangements. CSCJ 215H Basic concepts and principles of hum arrangements. Satisfies General Educati CSCJ 216	an society. Students examine the social structure, group intera	action, and processes of social
Basic concepts and principles of hum arrangements. Satisfies General Educati CSCJ 216	Introduction to Sociology	
arrangements. Satisfies General Educati C SCJ 216		3 Credits
· ·	an society. Students examine the social structure, group intera on Core requirement for social science.	action, and processes of socia
Basic concepts of anthropological studie	Introduction to Anthropology	3 Credits
	es. This course presents an overview of social and cultural anthrop	ology.
CSCJ 218	Social Problems	3 Credits
	ems and issues in the United States. Topics include drug additior nts consider alternative proposals for resolving social problems.	ı, child abuse, battered women
CSCJ 301	Criminology	3 Credits
A study of the nature and causation of instructor.	crime, crime typologies and the extent of criminality. Prerequis	site: CSCJ 201 or permission o
CSCJ 305	Criminal Investigation	3 Credits
	tigation; duties and responsibilities of the investigator; interrogati tion of evidence, scientific aids and other sources of information rmission of Instructor.	
CSCJ 308	Medical Sociology	3 Credits
ntroduction to health and illness issue and age.	s and indicators. Examines disease and other health conditions in	the context of ethnicity, gende
CSCJ 314	Victimology	3 Credits
	ips, and societal reaction to victimization, including crisis-inter- compensation. <i>Prerequisite</i> : CSCJ 201 or permission of the Instru	
CSCJ 315	Social Psychology	3 Credits
This course focuses on individuals' inter and change, and group behavior.	raction within the social environments. There is also an emphasis o	on cognition, attitude formation
CSCJ 320	Criminal Justice Management	3 Credits
	of staff and managers functioning within the various agencies gerial principles and techniques as they apply to the criminal jus	
CSCJ 337	Statistics I	3 Credits
ntroduction to descriptive statistics, in requirements.	ncluding associational measures and probability. <i>Prerequisite</i> : (eneral Education mathematic
CSCJ 338	Statistics II	3 Credits
CSCJ 337 or an introductory statistics co		
CSCJ 352	Marriage and Family	3 Credits
An analysis of the American family past American family life.	and present. Students consider the heritage, contemporary forms	, functions, and future trends o
CSCJ 387	Social Research Methods I	3 Credits
An introduction to basic research tech problems. Prerequisite : CSCJ 337 or sin	niques and skills. Students learn how to select and apply appr nultaneous enrollment in CSCJ 337.	opriate methods to theoretica
CSCJ 388	Sociological Theory	3 Credits
Historical and analytical discussions of the present constitute this course.	major theoretical and methodological orientations in the developn	nent of sociology from Comte t
CSCJ 389	Social Research Methods II	3 Credits
	nd present data. This is a course that stresses project design, saurch. <i>Prerequisite</i> : CSCJ 387 or an introductory research course.	ampling, measurement and th
CSCJ 400	Comparative Systems in Social and Criminal Justice	3 Credits
An analysis of issues in social and crin viewed in global perspective. Prerequis	ninal justice and their characteristics as they relate to the opera tite: junior or senior standing.	-
CSCJ 401	Corrections	3 Credits

CSCJ 403	Judicial Process	3 Credits
	structure, jurisdiction and operation. An analysis of the legal process ries, policies and practices regarding the offender. <i>Prerequisite</i> :	
CSCJ 404	Juvenile Delinquency	3 Credits
A study of the nature, extent, and cat Prerequisite : CSCJ 201 or permission of	ises of delinquency. Methods of prevention, treatment and correc Instructor.	tion will also be examined.
CSCJ 405	Criminal Law	3 Credits
A survey of the nature and definition of Prerequisite : CSCJ 201 or permission of	f criminal acts; a general study of laws relating to crimes and the pu f Instructor.	nishment for their violation.
CSCJ 410	Seminar on Organized Crime	3 Credits
A study of organized crime including de standing or permission of Instructor.	rug and vice offenders within the structures of a Constitutional Dem	ocracy. Prerequisite : Junior
CSCJ 420	Special Topics I	3 Credits
	nation of the origin, change, and functions of neighborhoods and co ty development, environmental issues, poverty, crime, and inequality	
CSCJ 421	Special Topics II	3 Credits
	gy and criminal justice to vary by semester. Topics include devia nal behavior, addictive disorders, sexism, ageism and inequality amo	
CSCJ 425	Internship I	3 Credits
	rtunity to perform as participants in established criminal justice age f the Instructor and completion of 90 or more credit hours toward the	
CSCJ 426	Internship II	3 Credits
	rtunity to work with any social or criminal justice agency. Those whonal credit hours. <i>Prerequisite</i> : Consent of the Instructor.	no have taken CSCJ 425 may
CSCJ 430	Cultural and Ethnic Relations	3 Credits
	nally and abroad. Students examine the nature of prejudice and dis eoples, especially those of African descent.	scrimination in a context of
CSCJ 431	Social Stratification	3 Credits
An examination of global inequality rela	tive to race/ethnicity, class, gender, age and other factors	
CSCJ 432	Gender Roles	3 Credits
	and patterns of behavior of men and women in selected societies; for ca in comparison to other developed and developing countries.	ocuses on the distribution of
CSCJ 480	Student Project	3 Credits
Students pursue a program of reading, under the guidance of the instructor.	research, and writing as well as engage in a critical examination of	one or more selected topics
CSCJ 490	Independent Study	3 Credits
Individualized program of research and	/or other scholarly effort. <i>Prerequisite</i> : Approval of the department of	chair.
CSTA 101	Fundamentals of Speech	3 Credits
	rinciples of effective oral communication as it relates to the prof and effective listening techniques, and the preparation and delivery of	
CSTA 103	Fundamentals of Theatre and Dance Movement	1 Credit
Study of the basic principles and forms	of movement for dance and theatre.	
CSTA 200	Oral and Written Presentation Skills	3 Credits
	communication skills. Emphasis is on principles of logic, organizati ad investigation of purposes of various techniques of expression. Pre	
CSTA 201	Voice and Diction	3 Credits
Emphasis is on speech and vocal analy speech improvement.	sis by using the International Phonetic Alphabet (IPA). Introduces the	he student to techniques for
CSTA 211	Communication Theory and Rhetoric	3 Credits
	examine communication in interpersonal, small group, mass commu apply knowledge of theoretical concepts to facilitate understanding of equisite: CSTA 201.	

CSTA 213	Public Address	3 Credits
Advanced course; offers experience in permission of the instructor.	the composition, delivery, and criticism of public speeches. Pl	rerequisite: CSTA 101 and
CSTA 218	Concepts in Human Communication	3 Credits
	e group learning process. Incorporates theories from nonverbal c idy, and public speaking. Satisfies General Education Core require	
CSTA 251	Oral Interpretation	3 Credits
Study and presentation of poetry, prose characterization necessary to interpret t	, drama and various literary forms with emphasis on voice and dic ext. <i>Prerequisite</i> : CSTA 201.	tion, imagery, phrasing, and
CSTA 252	Theatre Appreciation	3 Credits
	as an art form through the exploration of the interrelationships of the theatre experience by analyzing principles and practices that go rical performances is required.	
CSTA 254	Acting I	3 Credits
	acting, character analysis, creative pantomime, mime, voice and dic als when in performance. Prerequisite : CSTA 201.	tion. Students participate in
CSTA 255	Stagecraft	3 Credits
Survey of the working knowledge of the installation of contemporary stage scene	e basic materials, processes, and equipment for the fabrication, assory and properties.	embly, painting, rigging, and
CSTA 301	The Rhetoric of Persuasion	3 Credits
Concentrates on analysis and understa interpersonal communication process.	anding of the art of persuasion with applications of various the	eories of persuasion to the
CSTA 302	Speech for the Classroom Teacher	3 Credits
Advanced course in the principles of ora presentation of instructional materials.	l communication with emphasis on the development of skills for eff	ective organization and oral
CSTA 303	Argumentation and Debate	3 Credits
Introduction to theories and practices of	formal public debate. <i>Prerequisites</i> : CSTA 213, CSTA 200 and CSTA	201.
CSTA 304	Business and Professional Speech	3 Credits
meetings; and business speeches to info	of effective speaking and listening, interviewing, group discussions, norm and persuade. <i>Prerequisites</i> : CSTA 101, CSTA 200, CSTA 201 ermission of the instructor for other concentration areas.	
CSTA 305	Interpersonal Communication	3 Credits
	ication process. Students become familiar with ways of intentiona ves of speakers; environmental or cultural conditions influencing c ader or member.	
CSTA 306	Speech for Radio/Stage/TV/Film	3 Credits
	oadcast media and the performing arts, with emphasis on voice q m. <i>Prerequisites</i> : CSTA 101, CSTA 200 and CSTA 201.	uality, flexibility, projection,
CSTA 307	Special Topics	3 Credits
Designed to investigate issues and topic credits. <i>Prerequisite</i> : Junior or senior states	s in speech communication and theater arts, and or related fields. M atus and permission of the instructor.	ay be repeated up to six (6)
CSTA 311	African-American Communication	3 Credits
	of communication systems used by African-Americans. Course exame economics. <i>Prerequisites</i> : CSTA 101, CSTA 200 and CSTA 201.	mines the relationships that
CSTA 316	Dramaturgy and Criticism	3 Credits
	study of selected works and performances around which analyti	cal approaches to dramatic
literature and performances evolve.		
literature and performances evolve. CSTA 321	Lighting and Design	3 Credits
CSTA 321	Lighting and Design art of the stage electrician and lighting designer. <i>Prerequisite</i> : CSTA	
CSTA 321		

CSTA 352	Development of Drama II	3 Credits
A continuation of CSTA 351. Prerequisit	<i>e</i> : CSTA 351.	
CSTA 353	Play Production Methods	3 Credits
Approach to understanding the fundame	ntal principles of preparing a play for public presentation.	
CSTA 354	Acting II	3 Credits
	equired to perform plays written in verse, traditional and nontradied materials and a critical study of styles and techniques. Prerequisite	
CSTA 402	Intercultural Communication	3 Credits
Designed to examine the role of communication practice.	inication in the creation and transmission of cultural consciousness	, knowledge, tradition, and
CSTA 404	Organizational Communication	3 Credits
studying communication concepts. Th	nizational communication and theories that have influenced its deve e course explores topics such as organizational culture and clin agement, and group decision-making processes.	
CSTA 410	Costume Design	3 Credits
Study of the costume designer's role in <i>Prerequisite</i> : Junior or senior status.	the design process that is involved in creating effective costumes for	or the contemporary stage.
CSTA 452	Theatre Arts Management	3 Credits
	managing in contemporary American theatre. Providing historica anagerial systems. <i>Prerequisite</i> : Senior standing and permission of in	
CSTA 453	Directing	3 Credits
	ys and scripts, including various directing techniques and theorie prepare a prompt book, and direct for public performance. <i>Prerequi</i>	
CSTA 454	Children's Theatre	3 Credits
	of children's theatre. Also explores the approaches to and mounting Core and community service requirement.	of a performance for youth.
CSTA 455	Entertainment Law	3 Credits
	nd examining issues and pitfalls, which affect the client. Explores buships, contract law, labor law, and libel. <i>Prerequisite</i> : Senior status.	isiness management issues
CSTA 456	African-American Theatre	3 Credits
Study of plays, playwrights and contribu	tions of African-Americans to the theatre.	
CSTA 482	Directed Study	3 Credits
	ors, in consultation with an instructor, develop specialized research p ication issues. Prerequisite : Junior or senior status and permission of	
CSTA 489	Internship	3 Credits
	k part-time in professional facilities. Emphasis is on learning over n-making positions. <i>Prerequisite</i> : Junior or senior status and permiss	
CSTA 490	Speech Communication and Theatre Arts Seminar	3 Credits
	eater arts majors with opportunities to apply theories and techniques for graduating seniors. Research projects should reflect the academic	
CUSW 200	Introduction to Social Work	3 Credits
	se for students interested in social work. The course traces the develop organizations in social welfare and includes various fields of social	
CUSW 202	Introduction to Professional Helping	3 Credits
This course is a study in self-assessment	, personal values clarification, problem solving and interviewing skills sperience of at least 50 clock hours is required. (CUSW 200 must be	for career choices in social
CUSW 300	Social Welfare Policies and Services	3 Credits
that impact programs, services and clien	tudents with social welfare policy formation and how corresponding ts. The course also explores and analyzes select historical and current <i>isites</i> : CUSW 302, CUSW 412, and CUSW 413.	

CUSW 301	Social Research Methods for Social Work Practice I	3 Credits		
	ods for social work research. The course takes students through rese			
methods for answering research questions (qualitative and quantitative methods and interviews, surveys, case studies, practice				
effectiveness, etc.), and the major components of research design (sample, measurement, design, and procedures). <i>Prerequisites: Co-</i> <i>Requisites</i> : CUSW 350, CUSW 360 and CUSW 411.				
CUSW 302	Statistics for Social Work Practice II	3 Credits		
	riptive and inferential statistics. In addition to learning about the use			
learn to analyze, present, and interpret data based on the methodologies learned in the prerequisite course using the Statistical Package				
	ication for data analysis. <i>Co-requisites</i> : CUSW 300, CUSW 412 and CU Issues of Health Disparities among Minority			
CUSW 350	Populations	3 Credits		
	t issues regarding health disparities that are dominant among minor			
	nt major health disparities (2) community-based health programs; ar the to address the issues of health disparities in the United States.			
CUSW 360 and CUSW 411.	the states of neurin disparties in the onice states.	co requisites . 605W 501,		
CUSW 360	Interpersonal Skills Laboratory	3 Credits		
	c social work skills such as interviewing, problem solving, time man			
	tanding. This course is also designed to assist students in developin nicro and mezzo systems. <i>Co-requisites</i> : CUSW 301, CUSW 350 and C			
CUSW 401	Human Behavior and the Social Environment I	3 Credits		
	m conception through adolescence and introduces students to multipl			
	on and their environment. Students explore theoretical frameworks a			
0	temporary social problems. <i>Prerequisite</i> : All required junior level con	urses. <i>Co-requisites</i> : CUSW		
403, CUSW 405 and CUSW 415. CUSW 402	Human Behavior and the Social Environment II	3 Credits		
	of young adulthood through late adulthood and introduces studen			
	en the person and their environment. Students explore theoretical fra			
synthesize a range of behavioral constru	cts and contemporary social problems. <i>Co-requisites</i> : CUSW 404, CUS	SW 406 and CUSW 416.		
CUSW 403	Practice Competencies I	3 Credits		
This course is designed to provide students with a synthesis of generalist social work knowledge, values, skills, and roles for integration				
This course is designed to provide stude	nts with a synthesis of generalist social work knowledge, values, skill	ls, and roles for integration		
into appropriate and effective helpin	g strategies for professional practice with individuals, families, g	groups, communities, and		
into appropriate and effective helpin		groups, communities, and		
into appropriate and effective helpin organizations. <i>Prerequisite</i> : All required CUSW 404	g strategies for professional practice with individuals, families, g junior level courses. <i>Co-requisites</i> : CUSW 401, CUSW 405 and CUSW Practice Competencies II	groups, communities, and 415.		
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CUCW 412		2 C 1:4-	
CUSW 413	Child Welfare Programs and Services	3 Credits	
This course covers knowledge, concepts and tools associated with contemporary child welfare practice focusing on micro, mezzo, and macro considerations in providing child welfare services. Emphasis will be placed on the identification of child maltreatment, reporting procedures, and continuing professional interaction with children and families from a community-based and multidisciplinary perspective. <i>Co-requisites</i> : CUSW 300, CUSW 302, and CUSW 412.			
CUSW 415	Issues in Child Welfare	3 Credits	
This course provides students with knowledge and information regarding how to assess and identify cases of child abuse and neglect. Students will gain general knowledge and understanding of the types of abuse and neglect, methods of investigations, interviewing techniques, as well as, knowledge of available community resources to both prevent and treat child abuse. <i>Co-requisites</i> : CUSW 402, CUSW 404, and CUSW 416.			
CUSW 416	Social Work Practice with the Aged	3 Credits	
This course is designed to assist students with the development of competence in the delivery of services to older adults and their families. Students will explore social work practice with the elderly in various service settings. Students will acquire the skills required for interdisciplinary collaboration and intervention and the application of the problem solving process with all systems. <i>Co-requisites</i> : CUSW 402, CUSW 404, and CUSW 406.			
HBIO 240*	Introduction to Public Health	3 Credits	
This course is designed to give students a strong foundation in the administration and practice of public health; to provide an understanding of the technical, social, and political parameters surrounding public health research and practice. The course includes a lecture series; field trips to local, state, and federal agencies and services; and a research project.			
HBIO 330*	Introduction to Epidemiology	3 Credits	
This course is a study of the distributions and determinants of health related states and events in populations with a view toward identifying the etiology (the study of the causes and origin of diseases) of diseases. It includes fundamental strategies for epidemiological research; the framework for assessing valid statistical associations and making judgments of causality; measures of disease frequency and association; detailed discussions of the various types of study designs, analysis, and interpretation of epidemiological data; and methods of the evaluation and control of chance, bias, and confounding in assessing the presence of a valid statistical association.			
HBIO 340*	Biostatistics	3 Credits	
This course is designed for applications of statistics in the biomedical and health sciences. It introduces parametric and non-parametric statistical methodology, including descriptive measures, elementary probability, estimation and hypothesis testing, correlation, regression and single factor analysis of variance. Underlying theory is empirically demonstrated utilizing biomedical applications. Computer-based statistical analysis is used throughout the course. (Electives from any of the AUC schools that have a similar course description may substitute for this course)			
HBIO 450*	Public Health Sciences Seminar and Practicum	3 Credits	
This course is designed to provide students with a forum for discussion and critical analysis of contemporary health care issues while providing practical experience in a health service agency. * Courses for Public Health Minor offered at Morehouse College.			
SART 141**	History of Art I	3 Credits	
This course will explore the art and architecture of Egypt, the Near East, the classical Greek and Roman world and Medieval Europe from about 2000BC to 1400AD. It will examine a wide range of art, architecture and objects, designed for various functions, from the standpoints of style, content and how they express political and religious ideas of the societies that created them. Open to non-art majors as an elective or fine arts credit.			
SART 142**	History of Art II	3 Credits	
This course will explore major artistic traditions from the Renaissance to the Modern era in Western Europe and America. Focusing primarily on painting, sculpture and selected examples of architecture, it will examine art style and content with reference to historical background, patronage, nationality, personality, gender influence and artistic production. Open to non-art majors as an elective or fine arts credit.			

* Offered on Morehouse College Campus ** Offered on Spelman College Campus