

# New Mexico Military Institute College Courses

Academic courses are listed alphabetically and are listed in this manner:

Course ID - Course Title - Credit Type (Credit or Non-Credit) - Credits  
Course Description  
Repeatable for credit or not

Program (HIGHSC or JCOLL) - Division - Department

## **ACCT 2113 - Principles of Accounting I** - CRED - 4.00

JCOLL - SSBSS - BUSIN

Introduces fundamental accounting principles and procedures. Examines present accounting theory and practices with applications to the sole proprietorship, partnerships, and corporations. Students will demonstrate an understanding of accounting basics, including journalizing, posting, preparing a trial balance, and adjusting entries. Students will learn how to prepare financial statements, closing entries, and post closing trial balance. Students will demonstrate an understanding of inventory methodology, operational assets and depreciation, accrued liabilities, and equity ownership. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions.

Repeatable - N

## **ACCT 2123 - Principles of Accounting II** - CRED - 4.00

JCOLL - SSBSS - BUSIN

Application of theory and practice to partnership and corporations, manufacturing operations, cost determination, financial statement analysis and Federal tax considerations. (Managerial) Students will learn how to prepare a Statement of Cash Flows and a differential analysis report for decision making. Students will demonstrate an understanding of job cost and process-cost systems, variance analysis calculations, traditional costing and activity-based costing, and capital investment decisions. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions. ACCT 2113 prerequisite.

Repeatable - N

## **ACT 500 - ACT Review** - CRED - 0.00

JCOLL - CAE - TLC

Prepares students for the Scholastic Aptitude Test (SAT) or the American College Test (ACT). Program is designed to gain through practice experience with the testing approaches. Covers verbal areas of synonyms, antonyms, analogies, vocabulary, syntax, and grammar as well as reading in social sciences and natural science. Includes a complete series of problems in mathematics, including algebra and geometry. Grade: P/F for transcript, not included in GPA.

Repeatable - N

## **ANTH 2113 - Introduction to Cultural Anthropology** - CRED - 3.00

JCOLL - SOCSCI - SOCSCI

Cultural Anthropology is the study of human societies; the various ways in which contemporary peoples create and are created by cultural processes. The course does not try to cover all the branches of anthropology; focusing specifically on cultural anthropology as practiced in the United States. Culture is central to the human adaptation to physical, social and psychological environments. Besides exploring how culture influences important areas of human experience, this course attempts to provide insight into how cultural anthropologists do what they do--what problems they encounter and what techniques they use. This is an introductory course that seeks to develop students' skills in the understanding of unfamiliar and diverse societies that exist in various geographical areas of the world; the interpretation of cultural differences, emphasizing a cross view of human adaptations; and provide an overview of the important findings, concepts, methods, and applications of cultural anthropology. It examines a wide range of different kinds of social organization and provides, among other topics, introductory information on comparative linguistics, economies, political systems, kinship, and religion.

Repeatable - N

## **ARBC 1114 - Elementary Arabic I** - CRED - 4.00

JCOLL - FORLAN - FOREIGN

Beginning Arabic I is the first year Arabic language course for students who have no background in Arabic. This course fulfills part of the Humanities graduation requirement. Beginning Arabic introduces the Arabic alphabet and the study of basic vocabulary and grammar topics. Students are expected to begin developing communicative competency in the four language skills of listening, speaking, reading and writing. Vocabulary units cover words used to describe everyday surroundings and actions. Grammar topics include non-verbal sentences, present tense verbs, beginning Arabic sentence structure, including noun-adjective agreement and the idaafa structure. Students should be able to communicate at a beginning level using the basic vocabulary and grammar covered in class and should be able to understand and produce short sentence-length passages. Cultural topics include the names, locations and flags of Arabic-speaking countries as well as cultural norms involving vocabulary such as greetings, clothing items and holidays. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages.

Repeatable - N

## **ARBC 1124 - Elementary Arabic II** - CRED - 4.00

JCOLL - HUMAN - FOREIGN

Beginning Arabic II is the second half of the first year Arabic language course for students who have no background in Arabic. This course fulfills part of the Humanities graduation requirement. It continues the study of basic vocabulary and grammar topics. Students are expected to begin developing communicative competency in the four language skills of listening, speaking, reading and writing. Vocabulary units cover words for describing the everyday circumstances and surroundings for a typical student as well as those used to describe trips and vacations. Grammar topics include present and past tense verb forms, noun-adjective agreement and the proper use of pronouns. Students should be able to communicate at a beginning level using the basic vocabulary and grammar covered in class and should be able to understand and produce sentence-length passages. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages.

Repeatable - N

**ARBC 1806 - Accelerated Beginning Arabic - CRED - 6.00**

JCOLL - FORLAN - FOREIGN

Accelerated Beginning Arabic is the first year Arabic language course for students who have no background in Arabic and covers all of the material for first-year Arabic in one semester. This course fulfills the Humanities graduation requirement. Beginning Arabic introduces the Arabic alphabet and the study of basic vocabulary and grammar topics. Students are expected to begin developing communicative competency in the four language skills of listening, speaking, reading and writing. Vocabulary units cover words used to describe everyday surroundings and actions. Grammar topics include non-verbal sentences, present and past tense verbs, beginning Arabic sentence structure, including noun-adjective agreement and the idaafa structure. Students should be able to communicate at a beginning level using the basic vocabulary and grammar covered in class and should be able to understand and produce short paragraph-length passages. Cultural topics include the names, locations and flags of Arabic-speaking countries as well as cultural norms involving vocabulary such as greetings, clothing items and holidays. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages. There are no prerequisites for this course. Students with prior Arabic knowledge or experience should consult with the instructor for proper placement.

Repeatable - N

**ARBC 2111L - Int Arabic Lab I - CRED - 1.00**

JCOLL - HUMAN - FOREIGN

Intermediate Arabic Lab utilizes an on-line course management system to deliver materials that students use to practice the communicative skills of listening, speaking, reading and writing. Students are expected to complete assignments that involve watching short video clips, listening to recorded passages, describing pictures, typing with Arabic keyboards, practicing vocabulary recall and recording spoken materials. Activities vary from week to week. Reference materials and course curriculum are available and can be accessed both in the lab and remotely via the school network. The lab sessions are designed to enhance and provide practice on an individual basis with the materials that are covered during the classroom sessions. ARBC 2111 builds on the foundation of previous Arabic courses and introduces communication at the level of paragraphs and longer selections. Students are expected to practice comprehension and production of more extensive ideas that involve additional vocabulary and more complex sentence structures. Additionally, students will gain an appreciation for the role that technology can play in gaining linguistic competence in a foreign language.

Repeatable - N

**ARBC 2114 - Intermediate Arabic I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Arabic I is the second year Arabic language course for students who initially had no background in Arabic and successfully completed both semesters of Beginning Arabic. This course fulfills part of the Humanities graduation requirement. Intermediate Arabic I continues the study of basic vocabulary and grammar topics and the development of the four language skills of listening, speaking, reading and writing. Vocabulary units include a review and expansion of previous topics as well as new vocabulary topics that can be used to describe everyday surroundings and circumstances. Grammar topics include review and additional practice of the three tenses as well as continued practice of Arabic syntax. Students should be able to communicate at an intermediate level using the basic vocabulary and grammar covered up to this point and should be able to understand and produce paragraph length passages. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages.

Repeatable - N

**ARBC 2124 - Intermediate Arabic II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Arabic II is the second year Arabic language course for students who initially had no background in Arabic and successfully completed both semesters of Beginning Arabic. This course fulfills part of the Humanities graduation requirement. Intermediate Arabic II continues the study of basic vocabulary and grammar topics and the development of the four language skills of listening, speaking, reading and writing. Vocabulary topics include geography, landmarks, careers, politics and news. Grammar topics include various types of complex sentences, the jussive and subjunctive moods, negation in the various tenses and the introduction of commands. Students should be able to communicate at an intermediate level using the basic vocabulary and grammar covered up to this point and should be able to understand and produce paragraph-length passages. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages.

Repeatable - N

**ARBC 2806 - Accelerated Intermediate Arabic - CRED - 6.00**

JCOLL - FORLAN - FOREIGN

Accelerated Intermediate Arabic is the second year Arabic language course for students who successfully completed Beginning Arabic or its equivalent and covers all of the material for second-year Arabic in one semester. This course fulfills the Humanities graduation requirement. Intermediate Arabic continues the study of basic vocabulary and grammar topics. Students are expected to develop intermediate communicative competency in the four language skills of listening, speaking, reading and writing. Vocabulary units cover words used to describe everyday situations as well as geography and landmarks. Grammar topics include a review of non-verbal, present and past tense sentences as well as an introduction to complex sentences and commands. Students should be able to communicate at an intermediate level using the basic vocabulary and grammar covered in class and should be able to understand and produce paragraph-length passages. Cultural topics include the names and locations for geographical features and landmarks of Arabic-speaking countries as well as cultural norms surrounding family units, food and careers. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages. The prerequisite for this course is successful completion of ARBC 1124 or ARBC 1806. Students with prior Arabic knowledge should consult the Modern Languages Department for placement. This course is not open to native speakers of Arabic or students who have completed second-year Arabic.

Repeatable - N

**ARTS 1053 - Drawing - CRED - 3.00**

JCOLL - HUMAN - ART

Develops basic approaches to drawing. Emphasizes learning to see natural and man-made objects in contour, gesture, direction, proportion, shading.

Repeatable - N

**ARTS 1103 - Color and Composition - CRED - 3.00**

JCOLL - HUMAN - ART

Introduces color theory and its uses. Explores color composition combinations and resulting outcomes

Repeatable - N

**ARTS 1403 - Computer Graphic Design - CRED - 3.00**

JCOLL - HUMAN - ART

Introduction to the basic elements of design using a computer. Covers raster, vector, and layout based programs. Requires completion of projects for student portfolio review. Primary software packages used are: Photoshop, Illustrator and Indesign. Lab fee required.

Repeatable - N

**ARTS 1903 - Stained Glass** - CRED - 3.00 JCOLL - HUMAN - ART

Stained glass introduction, with students studying basic glass design, composition, and different techniques to produce control of the media. Both modern and historical stained glass will be studied to improve student's understanding of the subject.

Repeatable - N

**ARTS 1913 - Stained Glass II** - CRED - 3.00 JCOLL - HUMAN - ART

Stained Glass II continues the lessons from Stained Glass, but works on a larger scale and in 3-dimensional work combining foil and leading. Maintaining classical treatment of the medium, a stronger focus into painted, etched, and message based work will be emphasized.

Repeatable - N

**ARTS 1993 - Portfolio Enhancemnt** - CRED - 3.00 JCOLL - HUMAN - ART

Develops portfolio of student work to focus on drawing, painting, basic design, and color theory.

Repeatable - N

**ARTS 2023 - Painting** - CRED - 3.00 JCOLL - HUMAN - ART

Introduces painting. Emphasizes color theory and mixing, developing technique, and control of media.

Repeatable - N

**ARTS 2113 - Art History I** - CRED - 3.00 JCOLL - HUMAN - HUMAN

ARTS 2113 is a history of Western art from cave paintings to the beginning of the Renaissance. The history of painting, sculpture, and architecture will be covered. The various philosophies of different time periods will also be studied so that the student can understand why a particular style developed. By the end of the semester, the student will have an understanding and an appreciation of the major monuments and movements in the history of Western art. The students will also understand the chronological development of art from the Paleolithic period to the Renaissance. In addition, the student will also have an understanding of the political, economic, spiritual and philosophical factors that influenced the development of a particular style of art.

Repeatable - N

**ARTS 2123 - Art History II** - CRED - 3.00 JCOLL - HUMAN - HUMAN

This course is a history of Western art and the world beyond European art from the Renaissance to the Modern Era. The history of painting, sculpture, and architecture will be covered. The various philosophies of different time periods will also be studied so that the student can understand why a particular style developed. By the end of the semester, the student will have an understanding and an appreciation of the major monuments and movements in the history of Western art. The students will also understand the chronological development of art from the Renaissance to the modern era. In addition, the student will also have an understanding of the political, economic, spiritual and philosophical factors that influenced the development of a particular style of art.

Repeatable - N

**ASTR 1110L - Astronomy Lab** - CRED - 0.00 JCOLL - MASI - NATSCI

Laboratory portion of Astronomy 1114 - This course is designed to teach the fundamentals of modern astronomy. It introduces the constellations, planets and basic astronomical theories. The course demonstrates how Galileo, Newton and Einstein used astronomy to lead in the development of modern science. Catastrophic consequences of astronomical events upon civilization will be addressed as well as responses by leaders.

Repeatable - N

**ASTR 1114 - Astronomy** - CRED - 4.00 JCOLL - MASI - NATSCI

This course is designed to teach the fundamentals of modern astronomy. It introduces the constellations, planets and basic astronomical theories. The course demonstrates how Galileo, Newton and Einstein used astronomy to lead in the development of modern science. Catastrophic consequences of astronomical events upon civilization will be addressed as well as responses by leaders.

Repeatable - N

**BCIS 1113 - Intro Computer/Business Applications** - CRED - 3.00 JCOLL - SSBSS - BUSIN

Update Fall 2013: This course seeks to achieve an understanding of the use and importance of information technology to include basic terminology, identifying and using hardware components, application software, operating system software, communication systems and business software (database, spreadsheets and Internet search engines) using current technologies for research, individualized learning and preparation of assignments. Additionally, students will explain important ethical, security and privacy issues in information systems while identifying both the societal and international impacts of information technology. Students will recognize the role of critical thinking, leadership and ethics in making effective business decisions. Business elective, and will meet the high school computer science requirement.

Repeatable - N

**BFIN 1113 - Personal Financial Planning for College** - CRED - 3.00 JCOLL - SSBSS - BUSIN

This course is designed to help adjusting college students understand their new-found personal financial responsibilities that are often discovered during this transitional period in life. Students will learn money management skills that are applicable for the rest of their lives with an emphasis in math focusing in the areas of savings, budgets, debt, philanthropy, consumer awareness, bargains, credit bureaus, insurance, investments, retirement plans and real estate. Students will develop competent money management skills and acquire simple habits at a young age to change their lives in the years to come all while avoiding unnecessary debts.

Repeatable - N

**BIOL 1150L - General Biology Lab (Area III)** - CRED - 0.00 JCOLL - MASI - BIOLOG

Lab portion of BIOL 1154 a comprehensive survey course in general college biology. Studies the basis for and understanding of the current concepts of life and the structures and functions of living organisms. Includes the origin and evolution of life, genetics, metabolism, and the kingdoms of life. Three hours class/one hour lab. Recommended for non-science majors and may serve as a prerequisite for individual BIOL courses other than 1214 and 1224.

Repeatable - N

**BIOL 1154 - General Biology (Area III) - CRED - 4.00**

JCOLL - MASI - BIOLOG

Comprehensive survey course in general college biology. Studies the basis for and understanding of the current concepts of life and the structures and functions of living organisms. Includes the origin and evolution of life, genetics, metabolism, and the kingdoms of life. Three hours class/one hour lab. Recommended for non-science majors and may serve as a prerequisite for individual BIOL courses other than 1214 and 1224.

Repeatable - N

**BIOL 1210L - Principles of Biology I Lab (Area III) - CRED - 0.00**

JCOLL - MASI - BIOLOG

Laboratory portion of the first of two consecutive college biology courses designed for science majors. Principles I Includes the chemistry of life, cell structure and function, basic metabolic pathways, genetics, biotechnology and evolution/speciation. The course concludes with a survey of kingdoms Prokaryota, Protista, Fungi, and plant taxonomy, structure and function.

Repeatable - N

**BIOL 1214 - Principles of Biology I (Area III) - CRED - 4.00**

JCOLL - MASI - BIOLOG

The first of two consecutive college biology courses designed for science majors. Principles I Includes the chemistry of life, cell structure and function, basic metabolic pathways, genetics, biotechnology and evolution/speciation. The course concludes with a survey of kingdoms Prokaryota, Protista, Fungi, and plant taxonomy, structure and function.

Repeatable - N

**BIOL 1220L - Principles of Biology II Lab (Area III) - CRED - 0.00**

JCOLL - MASI - BIOLOG

Laboratory portion of the second of two consecutive college biology courses designed for science majors. Principles II includes a survey of the animal kingdom, invertebrate and vertebrate, animal structure and function including organs and organ systems. The course concludes with discussions of taxonomy, diversity and ecological principles with emphasis on population and community ecology.

Repeatable - N

**BIOL 1224 - Principles of Biology II (Area III) - CRED - 4.00**

JCOLL - MASI - BIOLOG

The second of two consecutive college biology courses designed for science majors. Principles II includes a survey of the animal kingdom, invertebrate and vertebrate, animal structure and function including organs and organ systems. The course concludes with discussions of taxonomy, diversity and ecological principles with emphasis on population and community ecology. Lab fee.

Repeatable - N

**BIOL 2220L - Microbiology Lab - CRED - 0.00**

JCOLL - MASI - BIOLOG

Laboratory portion of microbiology which identifies the structure, function, and physiology of microorganisms, including bacteria, protozoans, algae, fungi, and viruses, as well as their role in the community and impact on human health. Emphasis is placed on the medical aspects of microbiology. Prerequisites: Biol 1154 or Biol 1214. Requires enrollment in Biol 2220L.

Repeatable - N

**BIOL 2224 - Microbiology (Area III) - CRED - 4.00**

JCOLL - MASI - BIOLOG

Identifies the structure, function, and physiology of microorganisms, including bacteria, protozoans, algae, fungi, and viruses, as well as their role in the community and impact on human health. Emphasis is placed on the medical aspects of microbiology. Prerequisites: Biol 1154 or Biol 1214. Requires enrollment in Biol 2220L.

Repeatable - N

**BIOL 2233 - Science of Nutrition - CRED - 3.00**

JCOLL - MASI - BIOLOG

A course designed to teach the basics of human nutrition. It introduces the fundamental theories and principles of nutrition at various human life stages. The course is specifically intended for students in the pre-nursing program and related medical areas. Pre-requisite: BIOL 1154 or 1214. Does not meet a lab science credit.

Repeatable - N

**BIOL 2250L - Insects and Man Lab - CRED - 0.00**

JCOLL - MASI - BIOLOG

This course is designed to introduce the student to the science of Entomology and is comparable to like-names courses as well as to general entomology courses offered at 4-year institutions. It provides in-depth study of general entomology; including evolution, morphology, ecology, behavior, parasitism, and predation. Insect interactions with plants, animals, and man are included as are medical importance and insect pest management. Taxonomic orders and families are emphasized in class and the laboratory including morphological characters. A collection and field trips are mandatory. This is the lab portion.

Repeatable - N

**BIOL 2254 - Insects and Man - CRED - 4.00**

JCOLL - MASI - BIOLOG

This course is designed to introduce the student to the science of Entomology and is comparable to like-names courses as well as to general entomology courses offered at 4-year institutions. It provides in-depth study of general entomology; including evolution, morphology, ecology, behavior, parasitism, and predation. Insect interactions with plants, animals, and man are included as are medical importance and insect pest management. Taxonomic orders and families are emphasized in class and the laboratory including morphological characters. A collection and field trips are mandatory. Lab (BIOL 2250L) and lab fee. BIOL 1154 pre-requisite.

Repeatable - N

**BIOL 2260L - Environmental Biology Lab - CRED - 0.00**

JCOLL - MASI - BIOLOG

Lab portion of environmental biology which is a course is designed to introduce the student to environmental studies and the science of Ecology. It provides an in-depth study of general ecology; covering terrestrial biomes, aquatic habitats, climate relationships and other aspects of the relationship of living organisms, both with each other and with the non-living environment. Special emphasis is placed on population ecology, community ecology, and the ecosystem and man's impact. Scientific review papers and field trips are mandatory.

Repeatable - N

**BIOL 2264 - Environmental Biology - CRED - 4.00**

JCOLL - MASI - BIOLOG

This course is designed to introduce the student to environmental studies and the science of Ecology. It provides an in-depth study of general ecology; covering terrestrial biomes, aquatic habitats, climate relationships and other aspects of the relationship of living organisms, both with each other and with the non-living environment. Special emphasis is placed on population ecology, community ecology, and the ecosystem and man's impact. Scientific review papers and field trips are mandatory.

Repeatable - N

**BIOL 2430L - Human Anatomy Lab - CRED - 0.00**

JCOLL - MASCI - BIOLOG

Human Anatomy is an introductory course in anatomical exploration that will prepare those interested in the medical field for future upper level anatomy and physiology courses. Human Anatomy lab must be taken in conjunction with the class. The course consists of three hours of lecture and one lab section per week. Prerequisite: BIOL 1214 or 1224 Fall Semester. Lab for Human Anatomy

Repeatable - N

**BIOL 2434 - Human Anatomy - CRED - 4.00**

JCOLL - MASCI - BIOLOG

Human Anatomy is an introductory course in anatomical exploration that will prepare those interested in the medical field for future upper level anatomy and physiology courses. Human Anatomy lab must be taken in conjunction with the class. The course consists of three hours of lecture and one lab section per week. BIOL 1214 or 1224. Fall Semester. Lab and lab fee required.

Repeatable - N

**BIOL 2440L - Human Physiology Lab - CRED - 0.00**

JCOLL - MASCI - BIOLOG

Lab part of Human Physiology. This is a comprehensive course designed for an examination of the functions of the human body and the accompanying physio-chemical relationships. Homeostatic responses constitute a common theme. The course is designed for those students interested in careers in the medical fields; nursing, physical therapy, athletic training, pre-med, etc.

Repeatable - N

**BIOL 2444 - Human Physiology - CRED - 4.00**

JCOLL - MASCI - BIOLOG

This is a comprehensive course designed for an examination of the functions of the human body and the accompanying physio-chemical relationships. Homeostatic responses constitute a common theme. The course is designed for those students interested in careers in the medical fields; nursing, physical therapy, athletic training, pre-med, etc. Preq: BIOL 1214, 1224 or 1154 only with instructor's permission. Lab fee and lab is required.

Repeatable - N

**BIOL 2901 - Current Issues Medicine, Life Science - CRED - 1.00**

JCOLL - MASCI - BIOLOG

A weekly seminar for students, regardless of major, who are interested in today's issues in the life sciences, the environment and medicine, and who wish to further understand and explore questions raised by these issues. Prerequisite: Enrollment limited to students who have completed a science course and one semester at NMMI. Permission required.(Does not qualify as a science requirement)

Repeatable - N

**BIOL 2903 - Special Problems in Biology - CRED - 3.00**

JCOLL - MASCI - BIOLOG

Special problems in biology, topic to be assigned by the instructor.

Repeatable - N

**BKEY 0903 - Keyboarding - DEVL - 3.00**

JCOLL - SSBSS - BUSIN

Effective Spring 2008, this course is a developmental course and will not be used for graduation requirements. This course may be used for residency and eligibility requirements, but not the 68.0 hour graduation requirement. Fall 2013 update: Keyboarding is a developmental course for college that introduces students to the keyboard and principle components of using a word processing application on the microcomputer. Emphasis is on the development of typing using the touch typing method through typing letters, classroom assignments and term papers. The student text, combined with the program's interactive software, helps a student build strong keyboarding and document processing skills, while introducing the student to numerous software commands and techniques. This course uses individualized learning for the preparation of assignments, and is not for students who have received credits for a similar course. Lab fee required, may not take if student completed CIS 015 (NMMI high school course).

Repeatable - N

**BLAW 2113 - Business Law I - CRED - 3.00**

JCOLL - SSBSS - BUSIN

Investigates the basic principles of tort law and their application to business problems. Includes: court system, legal procedures, law of contracts, agency, employment, negotiable instruments, personal property, and sale of goods.

Repeatable - N

**BUSA 1113 - Introduction to Business - CRED - 3.00**

JCOLL - SSBSS - BUSIN

Fall 2013 update: Introduction to Business is designed for a first year business student emphasizing business concepts with real world examples. Each major area of business is introduced to the student for their consideration in choosing an area of major emphasis for future study. These areas include management, marketing, production, finance, accounting and management information. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions. Business elective.

Repeatable - N

**BUSA 2103 - Business Ethics - CRED - 3.00**

JCOLL - BUSINE - BUSIN

Business Ethics is an analysis of the ethical issues that arise in contemporary business life, including the obligations businesses and employees have to each other, consumers, society and the environment. Ethics as related to principles of right and wrong, morality and immorality, good and bad. Students will understand techniques of moral reasoning and argumentation necessary to analyze moral issues in business, apply general ethical principles, and understand current moral issues in business. May be used for either humanities or social science, but not both.

Repeatable - N

**BUSW 2113 - Business Writing - CRED - 3.00**

JCOLL - HUMAN - BUSIN

Explores the theory and practice of business writing emphasizing style, structure, and format in letters, memoranda, resumes, and reports. Students successfully completing this course may not enroll in ENGL 2113. Prerequisite: ENGL 1113. This course can satisfy three of the six semester hour core English requirements.

Repeatable - N

**CCES 1001 - College Career Exploration Studies - CRED - 1.00**

JCOLL - CAE - TLC

This course is designed to teach students the foundations of good career planning by giving them an opportunity to assess their interests, skills and values in order to identify potential careers; guide them through career research; guide them in developing an educational path; and help them identify NMMI concentrations that fit with their career aspirations. Changing careers several times throughout one's life has become the norm, just as changing career plans while in college is perfectly normal. Decisions about changing careers or career plans should not be made lightly, however, but should be well-thought out.

Repeatable - N

**CFYE 1002 - First Year Experience - CRED - 2.00**

JCOLL - CAE - TLC

First Year Experience is intended to give students the comprehensive living and learning experiences that will foster their smooth transition to college and academic life. The course will also gear at reinforcing leadership qualities in students, as well as enhancing personal growth and social responsibility awareness.

Repeatable - N

**CHEM 1100L - Introduction to Chemistry Lab - CRED - 0.00**

JCOLL - MASCI - CHEM

Laboratory for Chemistry 1104. Introduction to chemistry (a preview course). Course meets the 68 hours required for graduation, but does not meet the AS lab science requirement. Course Objectives: Chemistry 1104 is a one-semester course that provides an overview of many areas in chemistry. Topics included, but not limited to, are matter and energy, periodic table, metric system, reaction types, mole concept and chemical bonding.

Repeatable - N

**CHEM 1104 - Introduction to Chemistry - CRED - 4.00**

JCOLL - MASCI - CHEM

Introduction to chemistry (a preview course). Course meets the 68 hours required for graduation, but does not meet the AS lab science requirement. Course Objectives: Chemistry 1104 is a one-semester course that provides an overview of many areas in chemistry. Topics included, but not limited to, are matter and energy, periodic table, metric system, reaction types, mole concept and chemical bonding. Lab is required.

Repeatable - N

**CHEM 1210L - General Chemistry I Lab (Area III) - CRED - 0.00**

JCOLL - MASCI - CHEM

Laboratory for CHEM 1214. Introduces the fundamental theories and principles of chemistry. Transfers as main-stream (general) chemistry for all majors. No previous chemistry course work is required. Course will cover atoms, molecules, ions, chemical reactions, bonding and reactions in aqueous solutions, thermo chemistry, quantum theory, electronic structures, and periodic relationships/elements.

Repeatable - N

**CHEM 1214 - General Chemistry I (Area III) - CRED - 4.00**

JCOLL - MASCI - CHEM

Introduces the fundamental theories and principles of chemistry. Transfers as main-stream (general) chemistry for all majors. No previous chemistry course work is required. Course will cover atoms, molecules, ions, chemical reactions, bonding and reactions in aqueous solutions, thermo chemistry, quantum theory, electronic structures, and periodic relationships/elements. Lab (Chem 1210L) is required. Prerequisite: High school algebra 2 or higher math.

Repeatable - N

**CHEM 1220L - General Chemistry II Lab (Area III) - CRED - 0.00**

JCOLL - MASCI - CHEM

Laboratory for CHEM 1224. Introduces the fundamental theories and principles of chemistry. Course covers intermolecular forces, physical properties of solutions, chemical kinetics and equilibrium, acids and bases, entropy, nuclear reactions and synthetic/natural organic polymers. Transfers as main-stream (general) chemistry for all majors. General Chemistry I is the prerequisite.

Repeatable - N

**CHEM 1224 - General Chemistry II (Area III) - CRED - 4.00**

JCOLL - MASCI - CHEM

Introduces the fundamental theories and principles of chemistry. Course covers intermolecular forces, physical properties of solutions, chemical kinetics and equilibrium, acids and bases, entropy, nuclear reactions and synthetic/natural organic polymers. Transfers as main-stream (general) chemistry for all majors. General Chemistry I is the prerequisite. Lab required.

Repeatable - N

**CHEM 2110L - Allied Health Chemistry Lab - CRED - 0.00**

JCOLL - MASCI - CHEM

Allied Health Chemistry Lab. The course integrates general chemistry, organic chemistry and biochemistry with biological and health applications. Lecture topics are matter, atoms, ions, compounds, radioactivity, intermolecular forces, solutions, acids and bases, hydrocarbons, carbohydrates, proteins, enzymes, nucleic acids. The selected topics focus on chemical understanding and explanations of life-important processes that occur in living organisms.

Repeatable - N

**CHEM 2114 - Allied Health Chemistry - CRED - 4.00**

JCOLL - MASCI - CHEM

The course integrates general chemistry, organic chemistry and biochemistry with biological and health applications. Lecture topics are matter, atoms, ions, compounds, radioactivity, intermolecular forces, solutions, acids and bases, hydrocarbons, carbohydrates, proteins, enzymes, nucleic acids. The selected topics focus on chemical understanding and explanations of life-important processes that occur in living organisms. Lab is required.

Repeatable - N

**CHIN 1114 - Beginning Chinese I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Beginning Chinese is the first year Mandarin Chinese course for students who have no prior experience in Chinese. This is a general education course that fulfills one of the Humanities graduation requirements. This course develops beginning competency in the skills of listening, speaking, reading and writing. Students will develop an elementary acquaintance with the Chinese writing system as well vocabulary and grammar that can be used in basic everyday communicative situations. Students will work towards understanding and producing basic sentence-length passages on a consistent basis. This course has a lab component.

Repeatable - N

**CHIN 1124 - Beginning Chinese II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Beginning Chinese is the first year Mandarin Chinese course for students who have no prior experience in Chinese. This is a general education course that fulfills one of the Humanities graduation requirements. This course develops beginning competency in the skills of listening, speaking, reading and writing. Students will continue to develop an elementary acquaintance with the Chinese writing system as well vocabulary and grammar that can be used in basic everyday communicative situations. Students will continue to work towards understanding and producing basic sentence-length passages on a consistent basis. The prerequisite for this course is successful completion of CHIN 1114 or departmental placement. This course includes a lab.

Repeatable - N

**CHIN 2114 - Intermediate Chinese I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Chinese is the second year Chinese language course for students who initially had no background in Chinese and successfully completed both semesters of Beginning Chinese. This course fulfills part of the Humanities graduation requirement. Intermediate Chinese I continues the study of basic vocabulary and grammar topics and the development of the four language skills of listening, speaking, reading and writing. Students should be able to communicate at an intermediate level using the basic vocabulary and grammar covered up to this point and should be able to understand and produce paragraph-length passages. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages. The prerequisite for this course is successful completion of CHIN 1124 or departmental placement. This course has a lab component.

Repeatable - N

**CHIN 2124 - Intermediate Chinese II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Chinese II is the second year Chinese language course for students who initially had no background in Chinese and successfully completed both semesters of Beginning Chinese. This course fulfills part of the Humanities graduation requirement. Intermediate Chinese II continues the study of basic vocabulary and grammar topics and the development of the four language skills of listening, speaking, reading and writing. Students should be able to communicate at an intermediate level using the basic vocabulary and grammar covered up to this point and should be able to understand and produce paragraph-length or longer passages. Students who successfully complete this course should be prepared to continue with third year courses and major in Chinese at their next school. Additionally, students will gain insight into the language-learning process and the importance of possessing accurate cultural background information about the native speakers of other languages. The prerequisite for this course is successful completion of CHIN 2114 or departmental placement. This course has a lab component.

Repeatable - N

**CMD 100 - College Department - NONC - 0.00**

JCOLL - LDRSHP -

Repeatable - Y

**COMM 1003 - Introduction to Mass Communications - CRED - 3.00**

JCOLL - COMM - COMM

Intro to Mass Communication gives students a basic understanding of mass communication and its effects on society. The course develops critical thinking skills by teaching students how to interpret and comprehend mass communication messages (media literacy). Studies include the history, theories, development, and impacts of various forms of mass communication on popular culture and society including newspapers, magazines, radio, television, motion pictures, and advertising and the course will consider legal and ethical aspects of mass communication.

Repeatable - N

**COMM 1053 - Journalism - CRED - 3.00**

JCOLL - HUMAN - COMM

Journalism builds upon composition skills learned in previous English courses and applies those skills to journalistic writing with a focus on print media. Students will learn the fundamentals and conventions of news writing, the different types of stories, and the tasks assigned to journalists, and the skills required to develop such stories with the goal of having their stories published in the school newspaper.

Repeatable - N

**COMM 1113 - Public Speaking (Area 1) - CRED - 3.00**

JCOLL - COMM - COMM

Public Speaking will help students to discover, develop, and express ideas related to informative and persuasive speaking in a public setting. Students will learn the various steps in the process of developing, organizing, and executing their ideas, anticipating situations and presenting their ideas to an audience, enhancing these ideas by critically thinking about them, and properly analyzing an audience considering ethical aspects and multicultural awareness. Students will also develop critical listening skills to properly analyze speeches for use of logic, evidence, and reasoning.

Repeatable - N

**COMM 1311 - Practicum in Yearbook Production - CRED - 1.00**

JCOLL - COMM - COMM

Affords opportunity for individually directed study and practice in the processes of yearbook preparation and print plant procedures; develops knowledge of production techniques of the printing and publishing industries through hands on work resulting in the production of the NMMI yearbook, The Bronco

Repeatable - N

**COMM 1321 - Practicum in Yearbook Production II - CRED - 1.00**

JCOLL - COMM - COMM

Affords opportunity for individually directed study and practice in the processes of yearbook preparation and print plant procedures; develops knowledge of production techniques of the printing and publishing industries through hands on work resulting in the production of the NMMI yearbook, The Bronco. (Second semester)

Repeatable - N

**COMM 1353 - Intro Digital Film Making - CRED - 3.00**

JCOLL - COMM - COMM

Intro to Digital Film Making examines basic film elements to understand the general overview of the process of digital film making. Students will obtain hands on experience in developing a script, using a camera to create effective visual scenes, and learn the fundamentals of non-linear editing. The course covers all three production phases- preproduction, production and post production, focusing on creating video projects.

Repeatable - N

**COMM 2103 - Introduction to Film Studies - CRED - 3.00**

JCOLL - HUMAN - COMM

Introduction to Film Studies explores film as a unique and contemporary art form and will focus on various aspects of film such as cinematic techniques, film genres, and filmmaking styles. Popular films will be screened to analyze story arcs, filming techniques, symbolism, character development, and etc. Through the viewing and analysis of films, students will develop their observational and critical thinking skills with regard to cinema.

Repeatable - N

**COMM 2113 - Cinema History - CRED - 3.00**

JCOLL - HUMAN - COMM

Cinema History is a chronological survey of the evolution of film from precursors- flip books, magic lanterns and hand shadows to the present day cinematic entertainment experience. The course explores the movie industry, cinema as art, and as an expression of society's values, ideologies, and technological developments. The course also covers the evolution of cinema and studies the elements that impacted its development. Archived films will be screened and analyzed to enable students to develop their observational and critical thinking skills with regard to cinema.

Repeatable - N

**CRIJ 1113 - Introduction to Criminal Justice - CRED - 3.00**

JCOLL - SSBSS - CRIM

This course is an introduction to the history, contemporary issues, and aspects of the American Criminal Justice System. Subject areas examined include the following: US Constitution; American criminal justice history; principles of ethical leadership and management; root causes of criminal behavior; crime and justice in America; transnational crime and terrorism; victimization and criminal behavior; rule of law, police operations and issues; ethical conduct and court procedures; trial processes, punishment and sentencing; corrections and probation; prison goals and corrections management; parole release programs; and the juvenile justice system. The course curriculum will focus on presenting the field of criminal justice as an integral part of an interdisciplinary academic area of study in association with other disciplines such as criminology, philosophy, sociology, law, history, psychology, and political science. Course research and discussions include the study of emerging political, social and racial issues and understanding the present dynamics (i.e., current events) that affect the criminal justice system. Research and discussions will also center on how transnational crime, world-wide terrorism, and the globalization of crime has created the merging of US federal, military, state and local criminal agencies into a what is now known as Homeland Security. This class is open to all college students and is considered a core social science course needed for graduation.

Repeatable - N

**CRIJ 1123 - Criminal Investigations - CRED - 3.00**

JCOLL - SSBSS - CRIM

This course is an introduction to the principles of ethical and scientific crime analysis, crime detection, identification and management of evidence, interviewing, report writing, and crime scene management. The course includes the following: the historical origins of criminal investigation, basic concepts, and an indepth analysis of various investigative methodologies. The course specifies note-taking, reports, conduct of an interview and how to process a crime scene. In addition, the course introduces the student to the traditional sources of information, computer-aided investigations and computer crime. The course demonstrates to the student the fundamental investigative procedures of the following types of crime: burglary, robbery, homicide, aggravated assault, rape, sexual offenses, cyber crime and larceny. The course also introduces the student into the conduct of youth gang investigations, special investigations (e.g., domestic abuse, narcotics, organized crime, hate crime and arson), suspect identification and the conduct of the investigator in court. Practical exercises are conducted throughout the semester in regards to the curriculum and special guest speakers experienced in the field of criminal investigation are presented.

Repeatable - N

**CRIJ 2113 - Criminology - CRED - 3.00**

JCOLL - SSBSS - CRIM

Emphasis is on theories of crime and juvenile delinquency. Topics will include: street crime, organized crime, white-collar crime, terrorism and the role of substance abuse in criminality and delinquency. Course will explore the extent and causes of criminal behavior, analysis of crime in relationship to other social problems and the nature of society's response to crime. The study of criminology examines why crime takes place, the extent of crime; and the impact of crime on the wider society, the immediate neighborhood, and the family. Criminology also studies the measures and programs needed to prevent and control crime and criminal behavior.

Repeatable - N

**CRIJ 2253 - Introduction to Terrorism - CRED - 3.00**

JCOLL - SSBSS - CRIM

The course is an introduction to the forces, dynamics and processes of terrorism. Curriculum includes the study of the use of terror in history (e.g., Sun Tsu, Mao, Viet Cong, Middle-Easterners and others) understanding the behavioral characteristics and motivations of a terrorist; and the examination of respective root causes of terrorism to include religious, sociological, psychological and political foundations. The course examines the making of a terrorist group structure, terrorist capabilities and intentions, and the dynamics of a terrorist planning cycle. Curriculum examines the use of improvised explosive devices, various types of weapons, and types of open-source intelligence used by terrorist organizations and counter-terrorist operators. The course case study is the 9/11 attack on the United States of America and the practical exercise involves the use of open source intelligence in regards to current events concerning potential terrorist operations. The course exposes the student to the threats brought on by weapons of mass destruction to include biological, chemical and nuclear capabilities. The student will receive an indepth and thorough experience as to the critical variables that are taken into consideration when planning a terrorist attack in relation to the target's vulnerabilities in regards to the contemporary political, military, economic situation, as well as media exploitation and national will in relation to its internal/external environment.

Repeatable - N

**CRIJ 2313 - Corrections - CRED - 3.00**

JCOLL - SSBSS - CRIM

This course is an introduction to the history of corrections. The course examines the purposes of corrections. Within the curriculum an understanding of the interconnections of corrections with other criminal justice components, correctional ideologies, historical influences, and societal changes are studied and analyzed. Alternatives to imprisonment are examined such as probation; diversion centers, intermediate sanctions and parole are examined and discussed. Emphasis is placed upon the study of the effects of long imprisonment and adopted social behaviors as a result of long-term incarceration. An analysis of institutionalized individuals are review such as female and male inmates, juveniles and other classification of inmates such as geriatric, high risk and gang affiliated inmates are discussed and reviewed. The course will examine management issues within the correctional environment such as prison disturbances, riots, overcrowding, staffing and violence within the prison. A detailed review of the Attica, New York state Prison and the new Mexico State Penitentiary riots will be analyzed. The evolution of constitutional issues and the rights of inmates and ex-offenders are examined. The use of the death penalty, parole, and probation are examined. Local jails will be examined to include an analysis of their purposes and historical context within the American correctional system. This class is a concentration requirement for criminal justice students. Course is available for college level students and a select group of high school students.

Repeatable - N

**CRIJ 2323 - American Policing - CRED - 3.00**

JCOLL - SSBSS - CRIM

The course is a comprehensive study of the history, development and current perspectives involving American policing, community policing, law enforcement ideologies, administration, methodologies and operations. The course curriculum includes an in-depth analysis of the historical influences of American law enforcement which includes an overview of the contributions made by national and international law enforcement officers (e.g., Peel, Hoover, Pinkerton, Parker, and Vollmer). The curriculum involves understanding the parameters of federal, state and local agencies to include The Department of Homeland Security. Furthermore, in-depth analyses are conducted in regards to comprehensive study/discussion of current events, political and media bias and exploitation. Extensive discussion/research is conducted on police organization and administration at the municipal and county levels to include patrol methodologies, strategies, community-oriented policing and problem solving. Contemporary issues (social and multicultural), current events, civil liability, ethical accountability and behavior, corruption, use of force, personnel issues and job related stress factors are thoroughly examined and discussed. The influx of illegal immigration on American law enforcement, drug cartel influences, anti-terrorist operations, hate crimes and the homeless are analyzed and discussed. The course discusses in depth as to what constitutes good and bad law enforcement leadership. Special police topics such as the LAPD CRASH Rampart unit are examined to identify the breakdown in police-community relations and police administrative and tactical leadership.

Repeatable - N

**CRIJ 2513 - Criminal Law and Procedure - CRED - 3.00**

JCOLL - SSBSS - CRIM

This course reviews the historical development of criminal law and its use by the criminal justice system. We will deal with substantive criminal law, that is, the part of law which defines criminal acts and determines whether or not particular persons accused of crimes are indeed guilty. We will examine the common law origins of the elements of the criminal law and its contemporary forms. Emphasis is placed on the evaluation of an offense and the elements that need to be presented for case preparation from initial contact to the conclusion of the trial.

Repeatable - N

**CRIJ 2613 - Constitutional Law - CRED - 3.00**

JCOLL - SSBSS - CRIM

This course examines the principles of constitutional law utilizing case law from United States Supreme Court cases. Also we will examine the federal judicial legal process. Emphasis is on the nature of due process and the rights of the criminal defendant. This course will not deal with the sociological aspects of constitutional law. We will use two methods of studying constitutional law. The first is the case law method and the second is the textbook method. The case law method is designed to help you remember the principle of law of the case relating to a factual pattern which occurred in the case. The textbook method is the study of the textbook, which is a treatise on constitutional law. The textbook method consists of general rules and conclusions based on court decisions and is therefore the product of inductive reasoning.

Repeatable - N

**DRAM 1013 - Drama as Literature - CRED - 3.00**

JCOLL - HUMAN - HUMAN

Provides a Theater Arts survey of drama as literature from the Greeks to 1700, and from 1700 to the present. Requirements include a critical paper and the assumption of leadership roles in public productions.

Repeatable - N

**DRAM 1031 - Theater Production I - CRED - 1.00**

JCOLL - HUMAN - HUMAN

Provides exercises and workshops in theater skills, stagecraft and technical support or production. Meets in conjunction with the Drama as Literature lab.

Repeatable - N

**DRAM 1041 - Theater Production II - CRED - 1.00**

JCOLL - HUMAN - HUMAN

Provides exercises and workshops in theater skills, stagecraft and technical support or production.

Repeatable - N

**DRAM 1113 - Introduction to Drama - CRED - 3.00**

JCOLL - HUMAN - FINEART

Course introduces students to the basic element of theatre including dramatic theory, acting, directing, playwriting, and technical production. It provides classroom observational and experiential opportunities in those elements (participation) and enhances that learning through an audience experience (observation). The student will, after course completion, understand the basic elements of live theatre, basic terminology and concepts, and what it means to be/participate in live theatre. The course fulfills a humanities requirement and helps prepare students for a major/minor in theatre.

Repeatable - N

**ECON 2113 - Principles of Macroeconomics (Area IV) - CRED - 3.00**

JCOLL - SSBSS - ECON

Update Fall 2013: The course studies the economic system governing the productive apparatus; while identifying underlying social and economic goals, exploring opportunity costs, comparative and absolute advantage, laws of supply and demand, aggregate supply and aggregate demand, measuring the determining national income, employment and inflation; and introducing fiscal and monetary policy analysis through critical analysis and problem solving practices. Students will recognize the role of critical thinking, leadership and ethics in making effective business decisions. Business concentration requirement. (Area IV meets social/behavioral science requirement NM Gen Ed. NMCCN ECON 2113).

Repeatable - N

**ECON 2123 - Principles of Microeconomics (Area IV) - CRED - 3.00**

JCOLL - SSBSS - ECON

Update Fall 2013: This course introduces microeconomic theory. It emphasizes opportunity cost, consumer behavior and choice, utility analysis, production decisions, producer choice and cost analysis market structures, and demand and supply relationships in the marketplace and uses a critical thinking and problem solving approach. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions. Business concentration requirement. (Area IV meet NM Gen Ed social/behavioral science requirement NMCCN ECON 2123)

Repeatable - N

**ENGL 0090 - English Preparation - NONC - 0.00**

JCOLL - - ENGL

Repeatable - N

**ENGL 0993 - Basic Writing - DEVL - 3.00**

JCOLL - HUMAN - TLC

Provides the fundamentals of composition in standard English, with an emphasis on the sentence and short writing tasks. A required course for students with TOEFL scores of 500-550 (paper) or below 150 (computer), ACT English scores of 16 or lower, or SATR verbal scores of 330 or lower, or COMPASS placement score at or below 39. Students should be co-enrolled in developmental reading. This course is developmental and does not generate graduation credit, but may be used to meet residency and eligibility requirements.

Repeatable - N

**ENGL 1033 - Writing Workshop - CRED - 3.00**

JCOLL - HUMAN - ENGL

This general education English course is intended to establish collegiate level writing skills through the exploration of rhetorical models-narrative, descriptive, comparative, illustrative, definitive and causal. Students will use the writing process in a workshop setting to improve writing, reading, thinking, and research skills. Minimum grade of "C" in ENGL 0993 or ACT English score of at least 17 or SAT critical reading score of at least 340. (Otherwise students must take COMPASS for placement.) Student must earn a "C" to be eligible to move on to ENGL 1113 (update June 2012)

Repeatable - N

**ENGL 1113 - Freshmen Composition I (Area I) - CRED - 3.00**

JCOLL - HUMAN - ENGL

This mandatory core curriculum standard edited American English course is intended to strengthen collegiate level writing. Students will apply rhetorical models to a variety of writing challenges, including (and especially) the use of research to create persuasive writing employing MLA style. Students will demonstrate mastery of writing, reading, thinking, research, and presentation skills across the collegiate curriculum. ACT English score of 19 or SATR Critical Reading of 490 minimum or successful completion of ENGL 1033. (Otherwise placement requires minimum COMPASS score of 80.) Student must earn a grade of "C" to meet requirement. College students must take either ENGL 0993, 1033 or 1113 their first semester at NMMI, and process in the proper sequence until they complete 1113. ENGL 1113 and a higher level English course are required to graduate from NMMI.

Repeatable - N

**ENGL 1123 - Freshman Composition II (Area I) - CRED - 3.00**

JCOLL - HUMAN - ENGL

This core curriculum English course continues the practices of ENGL 1113, while focusing on analytical and critical writing in response to literature. Students will use writing to strengthen their reading, thinking, research, and presentation skills through the study of poetry, scripts, short fiction, and long fiction. (update June 2012)

Repeatable - N

**ENGL 1323 - Photojournalism & Narrative w/ Book Publ - CRED - 3.00**

JCOLL - HUMAN - HUMAN

This course will involve an introduction to the basic elements of photojournalism and narrative design for book publication, especially books containing visual graphics. Students will apply skills of Photoshop and InDesign to a number of specific assignments centered on creating narratives to accompany images and series of images. The book production explores ladder organization, production deadlines, and photography as an art form. Students will be required to complete project pages and editorial responsibilities. Primary software packages used are: Photoshop, Illustrator, Adobe, Word, Canvas, and Indesign.

Repeatable - N

**ENGL 1403 - Bible as Literature (Area V) - CRED - 3.00**

JCOLL - HUMAN - ENGL

This English course considers selected portions of the Bible that represent its various literary genres (hortatory, prophetic, poetic, gospels, epistolary, and apocalyptic). Students will read representative passages in order to capture the historical, literary, and theological aspects of the text in translation. Students will explore the Bible's influence on other literature in order to strengthen their reading, writing, thinking, research and presentation skills.

Repeatable - N

**ENGL 2113 - Technical Writing (Area I) - CRED - 3.00**

JCOLL - HUMAN - ENGL

Emphasizes the theory and practice of writing in technical fields. Stresses efficient writing processes and effective written products, including correspondence, resumes, and reports. Students successfully completing this course may not enroll in BUSW 2113 (same course). Meets Gen Ed requirement for college level writing.

Repeatable - N

**ENGL 2213 - English Literature I - CRED - 3.00**

JCOLL - HUMAN - ENGL

This survey course of early English Literature emphasizes the roots and masters the first millenia of English writing with some attention to minor authors, cultural background and political trends. By studying the works of Chaucer, Spenser, Shakespeare, Donne, Johnson, Milton, Dryden, Swift, and Pope, students will strengthen their reading, writing, thinking, research, and presentation skills.

Repeatable - N

**ENGL 2223 - English Literature II - CRED - 3.00**

JCOLL - HUMAN - ENGL

This survey course of late English Literature continues the study of British traditions in literature and emphasizes the literary movements and masters of the nineteenth, twentieth and twenty-first centuries. By studying the works of Austen, Blake, Wordsworth, Byron, Yeats, Bronte, Keats, Joyce, Wilde, Shaw, and Eliot students will strengthen their reading, writing, thinking, research and presentation skills.

Repeatable - N

**ENGL 2353 - American Literature I - CRED - 3.00**

JCOLL - HUMAN - ENGL

This survey English course of early American Literature emphasizes a chronologic reading of American authors beginning in the Colonial period and ending just before the turn of the twentieth century. By comparing literary developments with historical contexts and cultural influences, students will sharpen their reading, writing, critical thinking, research, and presentation skills.

Repeatable - N

**ENGL 2363 - American Literature II - CRED - 3.00**

JCOLL - ENGLIS - ENGL

This survey English course continues the study of ENGL 2353 that emphasizes a chronologic reading of American authors from the turn of the twentieth century and into the twenty-first. By studying major and minor works and exploring the literary, political, and cultural contexts from which they spring, students will sharpen their reading, writing, critical thinking, research, and presentation skills. (update June 2012)

Repeatable - N

**ENGL 2403 - Spec Topics in Literature - CRED - 3.00**

JCOLL - ENGLIS - ENGL

This elective survey English course emphasizes a thematic reading of literature announced at the beginning of each semester. Through studying material centered on a literary theme across centuries, countries, and cultures, students will sharpen their reading, writing, thinking, research, and presentation skills. (update June 2012)

Repeatable - N

**ENGL 2453 - Rise of the Novel 18th Cent (Area V) - CRED - 3.00**

JCOLL - HUMAN - ENGL

This elective English course explores the momentous events of the eighteenth century including the Industrial and American revolutions, and the emergence of the novel as an established literary form in England. The novels, histories, and critiques studied provide students the opportunity to read Locke, Burke, and Paine while sharpening their writing, thinking, research and presentation skills. (update June 2012)

Repeatable - N

**ENGR 1103 - Introduction to Engineering - CRED - 3.00**

JCOLL - MASC1 - MATH

Introduces students to the profession, including the disciplines of chemical, civil, computer, electrical, environmental, and mechanical engineering. Prepares students for success through the integration of the following important skills: technical problem solving and engineering design, ethical decision-making, teamwork, and communicating to others both orally and in writing.

Repeatable - N

**ENGR 1453 - Engineering Graphics and Design I - CRED - 3.00**

JCOLL - MASC1 - MATH

Introduces engineering graphical methods and disciplines with emphasis on basic principles and applications. Topics include technical drawing and design, orthographic projection, and 3D modeling. The student is required to learn a CAD program. Lab fee required. This course does not meet math graduation requirements. Prerequisite: "C" in MATH 1113 or instructor permission.

Repeatable - N

**ENGR 1463 - Engineering Graphics and Design II - CRED - 3.00**

JCOLL - MASC1 - MATH

Advanced engineering graphical methods with emphasis on 3D modeling and applications. Topics include solids and surfaces, rendering, lighting, perspective, and descriptive geometry. The student is required know CAD. Lab fee required. This course does not fulfill math graduation requirements. Prerequisite: ENGR 1453 Engineering Graphics.

Repeatable - N

**FREN 1114 - Elementary French I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Elementary French is an introductory French course at the first-year college level. While learning French vocabulary, pronunciation and grammar, students will be connected to current cultural information engaging them in meaningful communicative activities that will take place in class as a valuable source of oral interaction in French. Students will study elementary everyday topics from modern French textbook materials and are expected to develop beginning level competency in the skills of listening, speaking, reading and writing. This course has a lab component.

Repeatable - N

**FREN 1124 - Elementary French II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Second-semester college elementary French continues the learning of French vocabulary, pronunciation and grammar. The prerequisite is successful completion of FREN 1114. Current cultural information will be presented in meaningful communicative activities to continue oral interaction in French. Students will study elementary everyday topics from modern French textbook materials and are expected to develop beginning level competency in the skills of listening, speaking, reading and writing. This course has a lab component.

Repeatable - N

**FREN 2114 - Intermediate French I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

This is a French course at the intermediate second-year college level. The prerequisite is successful completion of FREN 1124. While learning French vocabulary, pronunciation and grammar, students will be connected to current cultural information engaging them in meaningful communicative activities that will take place in class as a valuable source of oral interaction in French. Students will study intermediate topics from modern French textbook materials that prepare them for advanced study and are expected to develop intermediate level competency in the skills of listening, speaking, reading and writing. This course has a lab component.

Repeatable - N

**FREN 2124 - Intermediate French II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Second-semester college intermediate French, continues the learning of French vocabulary, pronunciation and grammar. The prerequisite is successful completion of FREN 2113. Current cultural information will be presented in meaningful communicative activities to continue oral interaction in French. Students will study intermediate topics from modern French textbook materials that prepare them for advanced study and are expected to develop intermediate level competency in the skills of listening, speaking, reading and writing. This course has a lab component.

Repeatable - N

**GEOG 1113 - Humans & Environment - CRED - 3.00**

JCOLL - SSBSS - GEOG

Studies the natural environment and its transformation by human activities. An interdisciplinary study, combining principles and information from the natural sciences (Physical Geography) and from Human Geography to present a general understanding of how nature functions and how humans are a modifying force. (Social Science requirement)

Repeatable - N

**GEOG 2113 - Economic Geography - CRED - 3.00**

JCOLL - BUSINE - BUSIN

Concentrates on economic patterns. The course introduces several theories of economic activity: general theory of land use, agricultural location theory, plant location theory, central place theory; with emphasis on cultural-economic relationships. Recommended for business majors. (social science requirement)

Repeatable - N

**GEOG 2213 - Geography of Latin America - CRED - 3.00**

JCOLL - SSBSS - GEOG

Surveys the principal geographic regions of Latin America. The physical and cultural landscapes are emphasized along with contemporary social, political, and economic issues

Repeatable - N

**GEOL 1210L - Phy Geology Lab - CRED - 0.00**

JCOLL - NATSCI - NATSCI

This lab surveys the geological processes in light of the concept of plate tectonics. Laboratory work includes the identification of rocks and minerals, geologic processes, geologic and topographic map interpretation. The lab helps to reinforce compliment the physical geology lecture.

Repeatable - N

**GEOL 1214 - Physical Geology - CRED - 4.00**

JCOLL - NATSCI - NATSCI

Geology is the study of the Earth; this course will focus on physical geology through the examination of the basic structure and composition of the materials that comprise the Earth, and the processes that underlie major geologic phenomena. Studies will include the geologic time table, mineral and rock creation and identification concepts; plate tectonics, volcanism, earthquake activity, dynamic processes on the Earth's surface, mapping and geologic structures. Lab required.

Repeatable - N

**GEOL 1220L - Historical Geology Laboratory - CRED - 0.00**

JCOLL - NATSCI - NATSCI

This lab surveys historical geology in light of the dynamic processes that have created the continents and life on Earth. Lab exercises include fossil identification, understanding the rock record, geologic time and using physical evidence to trace the history of life on our planet. The lab helps to reinforce compliment the historical geology lecture.

Repeatable - N

**GEOL 1224 - Historical Geology - CRED - 4.00**

JCOLL - NATSCI - NATSCI

Historical geology is designed to introduce students to the art and science of interpreting Earth history. The class will emphasize the record of sedimentary rocks and the effects of plate tectonic activity throughout Earth's History. We will explore the dynamic changes and evolution of the earth and its life over the last 4.5 billion years. Special reference is given to North America. Laboratory exercises use fossils and physical evidence to trace the history of the Earth.

Repeatable - N

**GEOL 1230L - Environmental Geology Lab - CRED - 0.00**

JCOLL - NATSCI - NATSCI

Environmental Geology Lab. This is an applied geology course that will introduce students to our natural environment and the human interactions and everyday problems with our environment and global community from a geological perspective. The course explores how geological and atmospheric events impact human activity; students critically evaluate the problems and potential solutions to natural and environmental disasters.

Overpopulation, resource consumption, global climate change, waste disposal issues, natural hazards, and the role that our civilization plays in these issues will be examined, debated, and assessed.

Repeatable - N

**GEOL 1234 - Environmental Geology - CRED - 4.00**

JCOLL - NATSCI - NATSCI

This is an applied geology course that will introduce students to our natural environment and the human interactions and everyday problems with our environment and global community from a geological perspective. The course explores how geological and atmospheric events impact human activity; students critically evaluate the problems and potential solutions to natural and environmental disasters. Overpopulation, resource consumption, global climate change, waste disposal issues, natural hazards, and the role that our civilization plays in these issues will be examined, debated, and assessed.

Repeatable - N

**HIST 1113 - Development of Western Civilization I - CRED - 3.00**

JCOLL - SSBSS - HIST

Studies the social, economic, political, philosophical, and aesthetic development of humans from antiquity to the end of the Medieval period. This course sequence (HIST 1113/1123) attempts to have students understand the parallels between past and contemporary history to better comprehend the political and social realities of the contemporary world situation (Satisfies either humanities or history requirements, but cannot be used for both.)

Repeatable - N

**HIST 1123 - Development Western Civilization II - CRED - 3.00**

JCOLL - SSBSS - HIST

Studies the social, economic, political, philosophical, and aesthetic development of humans from the end of the Medieval period 1500 AD to modern times. This course sequence (HIST 1113/1123) attempts to have students understand the parallels between past and contemporary history to better comprehend the political and social realities of the contemporary world situation (Satisfies either humanities or history requirements, but cannot be used for both.)

Repeatable - N

**HIST 1313 - Early World History - CRED - 3.00**

JCOLL - SSBSS - HIST

(Satisfies either humanities or history requirement, but cannot be used for both.) Surveys major civilizations of the world from their origins to 1500. Course examines contributions of Asian, African, Islamic, Western and American civilizations while highlighting the interrelationships between them. Course is both thematic and chronological.

Repeatable - N

**HIST 1323 - Modern World History - CRED - 3.00**

JCOLL - SSBSS - HIST

(Satisfies either humanities or history requirement, but cannot be used for both.) Surveys major civilizations of the world from 1500 to the present. Course examines development and diffusion of modern culture throughout the world in the 19th and 20th centuries. Emphasis is on the interaction of the West on traditional cultures.

Repeatable - N

**HIST 2113 - History of the United States I - CRED - 3.00**

JCOLL - SSBSS - HIST

History 2113 surveys the political, economic, social, and cultural development of the United States from colonial beginnings through 1877. Particular attention is also given various political, social, and economic movements, as well as the place of the U.S. in world affairs. Required course for history concentration.

Repeatable - N

**HIST 2123 - History of the United States II - CRED - 3.00**

JCOLL - SSBSS - HIST

History 2123 studies the history of the United States from the end of Reconstruction to the present. Particular attention is also given various political, social, and economic movements, as well as the place of the U.S. in world affairs. This is a required course for the JC History concentration.

Repeatable - N

**HIST 2313 - American Military History - CRED - 3.00**

JCOLL - SSBSS - HIST

Surveys the development of American military institutions, policies, experiences, and traditions in peace and war from colonial times to the present. Emphasizes the relationship between military and other aspects of American society and the role of the military in the establishment, expansion, preservation, and development of the nation. This course may be taken in place of one of the following: Military Science 1 or 2 (non-contract MS program). Course must be completed per ROTC for contract cadets prior to receipt of BA or BS degree. Cannot be used for AS history requirement.

Repeatable - N

**HIST 2413 - Asian Civilization to 1600 - CRED - 3.00**

JCOLL - SSBSS - HIST

Introduces the study of Asian civilizations including India, China, and Japan. Emphasizes the development of civilizations in Asia before the arrival of Europeans and the Age of Imperialism. Special emphasis is placed on general traits and historical events that underlie the values of Asian people.

Repeatable - N

**HIST 2423 - Modern Asian Civilization - CRED - 3.00**

JCOLL - SSBSS - HIST

Traces the impact of the European arrival in Asia and the Age of Imperialism. Emphasizes the interaction of China, India, and Japan with Europeans as well as the growth of the modern nation states after independence from colonial rule. Korea, Vietnam, Indonesia, Malaya, Singapore, Burma, Thailand, and Pakistan are also considered.

Repeatable - N

**HIST 2613 - Latin America: Historical Survey - CRED - 3.00**

JCOLL - SSBSS - HIST

Examines the political, economic, social, and cultural development of Latin America from its Indian origins to the present. Special attention is given to the twentieth century interaction of the region with the United States and the rest of the world.

Repeatable - N

**HPER 1113 - Health and Wellness - CRED - 3.00**

JCOLL - ATHLET - ATH

Students will develop a theoretical and practical knowledge of all components of health and wellness as related to mental, emotional, physical, social, environmental and consumer health.

Repeatable - N

**HPER 1213 - Introduction and Found of Physical Educ - CRED - 3.00**

JCOLL - ATHLET - ATH

Introduction to the foundations of the discipline of physical education while exploring personal career choices.

Repeatable - N

**HPER 1253 - Sports Safety, First Aid/Emergency - CRED - 3.00**

JCOLL - ATHLET - ATH

Lecture course with selected activity and learning experiences regarding principles and methods for developing and maintaining physical fitness

Repeatable - N

**HPER 1313 - Performance Nutrition - CRED - 3.00**

JCOLL - ATHLET - ATH

This course is designed to provide physically active people and competitors with factual information on essential nutrients, metabolism during exercise and specific problems experienced by athletes or highly active people.

Repeatable - N

**HPER 1322 - Medical Terminology - CRED - 2.00**

JCOLL - ATHLET - ATH

This course is intended to assist those studying in the fields of medicine and health care by learning a word-building system for defining, using, spelling and pronouncing medical words. Course designed for those interested in athletic training

Repeatable - N

**HPER 1513 - Intro to Athletic Training - CRED - 3.00**

JCOLL - ATHLET - ATH

Covers the evaluation and treatment of athletic injuries with athletic training techniques and uses of support materials to prevent athletic injuries. Covers the evaluation, treatment, and prevention of these injuries, including use of supporting apparatus, hydrotherapy, physiotherapy, bandaging, and massage. This course is an entry level class for Athletic Training Education

Repeatable - N

**HPER 1613 - Fitness for Health and Sports - CRED - 3.00**

JCOLL - ATHLET - ATH

Lecture course with selected activity and learning experiences regarding principles and methods for developing and maintaining physical fitness

Repeatable - N

**HPER 1813 - Intro to Parks and Recreation - CRED - 3.00**

JCOLL - ATHLET - ATH

Gives the fundamentals involved in the development of the field of recreation, designed to provide students with a knowledge of Federal, State, and local recreation programs and practices in the activities included. Presents information on the history, philosophy, scope and value of parks and recreation services.

Repeatable - N

**HPER 1913 - Intro Sports Management - CRED - 3.00**

JCOLL - ATHLET - ATH

This course will provide the student with an understanding of the conceptual frameworks used in sport management and acquaint the student with the sports industry.

Repeatable - N

**HPER 2323 - General Medical Conditions - CRED - 3.00**

JCOLL - ATHLET - ATH

This course provides the prospective athletic trainer with the knowledge and skill necessary to recognize, manage, and refer the general medical conditions and disabilities in athletes and physically active individuals.

Repeatable - N

**HPER 2353 - Sports Injuries - CRED - 3.00**

JCOLL - ATHLET - ATH

Course provides students with an intensive, thorough study of orthopedic evaluation techniques used within the clinical and on-field environments to assess athletic related injuries. Normal joint kinematics and subsequent pathomechanics are discussed.

Repeatable - N

**HPER 2513 - Theory Leadership and Coaching - CRED - 3.00**

JCOLL - ATHLET - ATH

Comprehensive introduction to the art and science of coaching and leadership. Introduction to positive coaching philosophy: principles of coaching; and sport pedagogy, physiology, medicine and management

Repeatable - N

**HPER 2542 - Theory/Tech Athletics - CRED - 3.00**

JCOLL - ATHLET - ATH

Course is designed to expose students to the fundamental motor skills involved in running, jumping, tumbling and throwing.

Repeatable - N

**HPER 2552 - Sports Officiating - CRED - 2.00**

JCOLL - ATHLET - ATH

This course provides a working knowledge of team sports rules. The course includes a familiarization of the rules, regulations and proper protocol to follow as an athletic official. State certification will be available.

Repeatable - N

**HPER 2712 - Theory/Tech Aquatics - CRED - 2.00**

JCOLL - ATHLET - ATH

This course is designed to expose students to the fundamental skills involved in swimming, diving, and water survival

Repeatable - N

**HPER 2733 - Water Safety Instruction - CRED - 3.00**

JCOLL - ATHLET - ATH

Gives the student the skills and knowledge necessary to teach Red Cross Swimming courses. Students who satisfactorily complete the course are certified as Red Cross Water Swimming Instructors and lifeguard and CPR techniques. The course credit includes one hour activity PE, plus two hours academic credit. All students must satisfactorily pass prerequisite water test.

Repeatable - N

**HPER 2913 - Athletic Training Practicum - CRED - 3.00**

JCOLL - ATHLET - ATH

Instruction, practice and application of clinical proficiencies as established by the NATA Education council.

Repeatable - N

**HPER 2923 - Clinical Practicum II - CRED - 3.00**

JCOLL - ATHLET - ATH

This is one in a series of courses designed to give students field experience in the profession of athletic training. This course is designed to educate the student on practical skills in patient care and rehabilitation, preventative taping and wrapping, evaluation of injuries, recognition of the etiology of injuries, anatomy, modality usage and professionalism. Students will be able to locate basic anatomical structures with the ankle, knee and shoulder; be able to identify basic mechanisms of injury for the ankle, knee and shoulder; be able to properly apply therapeutic modalities under the supervision under the supervision of a certified athletic trainer to include heat, cold, ultrasound and electrical stimulation; have a functional understanding of the evaluation process; and be able to apply basic taping, wrapping, and bracing techniques to the extremities.

Repeatable - N

**HUMN 1103 - Leadership Development Studies - CRED - 3.00**

JCOLL - SSBSS - SOCSCI

Integrates character education and moral development theory within the context of leadership. Stresses critical thinking through readings and films on fictional, historic, and contemporary leaders dealing with moral and ethical issues. Fall 2009, following the PTK curriculum and renamed from Ethics in Leadership.

Repeatable - N

**HUMN 1513 - Old Testament Survey - CRED - 3.00**

JCOLL - HUMAN - HUMAN

Old Testament Survey acquaints students with the content of the Old Testament and places the Old Testament books in chronological sequence of events. The course highlights key passages and personalities for ready reference. Specific objectives are to supply bibliographies for students to build upon after the course is finished and to elucidate the cultures of the Ancient Middle East. (Satisfies Humanities requirement)

Repeatable - N

**HUMN 1523 - New Testament Survey - CRED - 3.00**

JCOLL - HUMAN - HUMAN

History, literature and teachings of the New Testament. Covers a basic understanding on the contents and contexts (literary, historical and theological) essential to understanding the New Testament.

Repeatable - N

**LEAD 1103 - Introduction to Leadership - CRED - 3.00**

JCOLL - LDRSHP - POLSCI

This course presents an introduction to the field of leadership. It will discuss the goals, theories and skills of leadership. The course will discuss leadership theories and practices from a multi-discipline approach. The course will provide students with the tools, key concepts and research findings to help them better understand the challenges of leadership and become better leaders. The course will prepare students for higher levels of study in the field of leadership. Events unfolding in the world today make it essential that students develop leadership skills in interpersonal relations, team building, and cultural diversity. The ability to make ethical decisions is one of the hallmarks of a good leader. Throughout the course the instructor will emphasize ethical leadership. The course uses a multi-disciplined approach to leadership. The psychological and sociological factors of leadership will be addressed during the course as well as various leadership models. With a strong base in the humanities, the course will use literature, movies and video sources to help the students gain an understanding of leadership theories. Overall, the course will help students understand the field of leadership and how these skills can be used in their chosen careers.

Repeatable - N

**LEAD 2813 - Ropes Course - CRED - 3.00**

JCOLL - LDRSHP - POLSCI

This course is designed to provide the basic skills and knowledge required to facilitate a ropes course as part of an outdoor education facility. The course will also help develop skills in instructional techniques, group debriefing skills, safety and rescue and equipment maintenance

Repeatable - N

**MATH 0913 - Elementary Algebra - DEVL - 3.00**

JCOLL - MATH - MATH

Topics covered include basic computational skills involving fractions, decimals, and percents as well as showing the transition to applying those skills when an unknown or variable is present. Other topics include operations in algebra, first-degree equations and inequalities, exponents, polynomials, and factoring. Factoring will be covered with great emphasis. This course may be used to meet residency and eligibility requirements, but may not be used to fulfill the 68 hour graduation requirement. Math placement scores will be used to determine enrollment in this course. \*Courses beginning with a '0' are remedial level and do not generate graduation credit hours, but do count for eligibility and residency requirements.

Repeatable - N

**MATH 1013 - Intermediate Algebra - CRED - 3.00**

JCOLL - MATH - MATH

Topics covered include exponents, radicals, factoring, linear equations, quadratic equations, polynomials, systems of linear equations, inequalities, and problem solving. This course may be used to meet residency and eligibility requirements, but may not be used to fulfill the math graduation requirement. This course may be used as elective credit to fulfill the 68 hour graduation requirement. Math placement scores will be used to determine enrollment in this course. Uses the ALEKS software.

Repeatable - N

**MATH 1073 - Intro Contemporary Math - CRED - 3.00**

JCOLL - MATH - MATH

Includes topics with modern applications such as numeration systems, consumer mathematics and financial management, measurement, geometry, probability and statistics, voting and apportionment, and graph theory. Meets the mathematics requirement for the AA degree but does not meet the AS degree math requirement.

Repeatable - N

**MATH 1113 - College Algebra (Area II) - CRED - 3.00**

JCOLL - MATH - MATH

Presents the typical course in college algebra. Topics include functions, graphs, polynomials, rational, exponential, and logarithmic functions, linear systems, and inequalities. This course includes use of graphing calculator (TI-83, TI-84, TI-84+) as a math tool. May be taught using ALEKS software.

Repeatable - N

**MATH 1173 - Math for Business & Soc Sci (Area II) - CRED - 3.00**

JCOLL - MATH - MATH

Studies finite math topics used in business, biology, and social science including systems of linear equations, matrices, linear programming, counting techniques, probability, and math of finance.

Repeatable - N

**MATH 1213 - Trigonometry (Area II) - CRED - 3.00**

JCOLL - MATH - MATH

Covers unit circle, right angle trigonometry, trigonometric functions, trigonometric identities and equations, radian measure, inverse trigonometric functions, and applications. Students may enroll concurrently in MATH 1113 College Algebra. Prerequisite: HS Algebra II, MATH 1013 Intermediate Algebra or satisfactory score on math placement examination.

Repeatable - N

**MATH 1273 - Calc for Business and Social Science - CRED - 3.00**

JCOLL - BUSINE - BUSIN

Introduces differential and integral calculus with application to business, economics, the behavioral and life sciences. Prerequisite: MATH 1113 or MATH 1173.

Repeatable - N

**MATH 1604 - Pre-Calculus - CRED - 4.00**

JCOLL - MATH - MATH

Studies functions necessary for students planning to take calculus. Topics include polynomial functions, rational functions, exponential functions, logarithmic functions, inverse functions, and trigonometric functions. Major emphasis is placed on trigonometric topics and includes the unit circle, trigonometric graphs, right angle trigonometry, and inverse trigonometric functions. Graphical and algebraic analyses of these functions are covered with emphasis. Prerequisite: MATH 1113 College Algebra or an advanced math course beyond Algebra II in high school, or a satisfactory score on the math placement exam.

Repeatable - N

**MATH 1614 - Calculus I (Area II) - CRED - 4.00**

JCOLL - MATH - MATH

Presents material in the first of a three semester sequence designed for students majoring in engineering, mathematics, computer science, or the physical sciences. The sequence approaches the topics in a graphical and numerical interpretation as well as the standard symbolic method. Proofs of important theorems are covered. Topics covered include parametric equations, limits, continuity, derivatives, analysis of functions using the derivative, applications of the derivative, and the Fundamental Theorem of Calculus. A computer algebra system (CAS) will be incorporated. Prerequisite: a minimum grade of "C" in MATH 1113 College Algebra and MATH 1213 Trigonometry or in MATH 1604 Pre-Calculus or equivalent experience or a satisfactory score on the math placement exam.

Repeatable - N

**MATH 1624 - Calculus II (Area II) - CRED - 4.00**

JCOLL - MATH - MATH

Presents material in the second component of the three semester sequence. Topics covered includes the Fundamental Theorem of Calculus, antiderivatives, definite integrals, methods of integration, improper integrals, applications of the definite integral including volumes of revolution, elementary differential equations, sequences, series, power series and Taylor series. A computer algebra system (CAS) will be incorporated. Prerequisite: a minimum grade of "C" in MATH 1614 Calculus I.

Repeatable - N

**MATH 2313 - Introduction to Statistics - CRED - 3.00**

JCOLL - MATH - MATH

Introduces beginning topics in statistics, including random samples, organizing data, measures of central tendency and dispersion, probability theory, binomial and normal distributions, central limit theorem, estimation, hypotheses testing, regression and correlation. Applications of all preceding topics will be covered. Prerequisite: MATH 1113 College Algebra or MATH 1013 Intermediate Algebra with a grade of "B" or better.

Repeatable - N

**MATH 2614 - Multi-Variable Calculus - CRED - 4.00**

JCOLL - MATH - MATH

Presents material in the third component of the three semester sequence. Topics covered includes geometry in the plane and in space, parametric equations, vectors, conic sections, polar coordinates, vector functions, cylindrical and spherical coordinates, vector calculus, partial differentiation, multiple integration with applications. A computer algebra system (CAS) will be incorporated. Prerequisite: a minimum grade of "C" in MATH 1624 Calculus II.

Repeatable - N

**MATH 2624 - Differential Equations - CRED - 4.00**

JCOLL - MATH - MATH

Differential Equations covers techniques for solving first and higher order equations, and systems of equations including separation of variables, Laplace Transform, numerical and matrix methods, and series. The 4 hour class time includes lab time one period a week with an emphasis on graphical representation of Differential Equations. Prerequisite: A minimum grade of "C" in MATH 2614 is required. This assumes you possess an understanding of the concepts of Differential, Integral, and Multivariable Calculus, and are skilled in using these concepts.

Repeatable - N

**MATH 2903 - Special Topics - CRED - 3.00**

JCOLL - MATH - MATH

Repeatable - N

**MATH 2913 - Spec Problems Math - CRED - 3.00**

JCOLL - MATH - MATH

Math 2913 presents material in the second component of the Special Problems in Mathematics sequence: Programming in Visual Basic and Introductory Dynamical systems. Topics will include advanced object oriented programming and graphics programming in the language Visual Basic as well as an introduction to beginning dynamical systems. The course will conclude with a programming project that will allow the user to select from several types of fractals and indicate the number of iterations for the fractal. The project will be presented to the Institute at the end of the semester.

Repeatable - N

**MCIS 1810L - Computer Science I Lab - CRED - 0.00**

JCOLL - MATH - MATH

Lab portion of MCIS 1814 which is a course that introduces structured programming, object-oriented programming, and software engineering. This course emphasizes the systematic development of programs as well as techniques for testing, debugging, and documenting. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used.

Repeatable - N

**MCIS 1813 - Programming in C++ - CRED - 3.00**

JCOLL - MATH - MATH

Introduces structured programming and software engineering in C++. The course emphasizes the systematic development of algorithms and programs as well as techniques for testing, debugging, and documenting them. Microsoft Visual C++ is used. Lab fee required. Prerequisite: MATH 1113 College Algebra or equivalent.

Repeatable - N

**MCIS 1814 - Computer Science I - CRED - 4.00**

JCOLL - MATH - MATH

Computer Science I introduces structured programming, object-oriented programming, and software engineering. This course emphasizes the systematic development of programs as well as techniques for testing, debugging, and documenting. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used. This course is presented as a combined lecture and laboratory course. Concepts are presented by lectures and reading assignments. Specific time for students to work on their programming assignments and ask questions about their code is provided during a laboratory section.

Repeatable - N

**MCIS 1820L - Computer Science II Lab - CRED - 0.00**

JCOLL - MATH - MATH

Lab portion of MCIS 1824 which is a course that covers intermediate-level structured programming, object-oriented programming, and software engineering. This course emphasizes the specification, application, and implementation of abstract data types. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used. This course is presented as a combined lecture and laboratory course. Concepts are presented by lectures and reading assignments. Specific time for students to work on their programming assignments and ask questions about their code is provided during a laboratory section. Notice that students most likely will need to spend additional time outside of the laboratory time to complete their assignments and may ask questions during the instructor's office hours.

Repeatable - N

**MCIS 1823 - C++ Data Structures - CRED - 3.00**

JCOLL - MATH - MATH

Focuses on the specification, the application, and the implementation of abstract data types in C++. Computer science theory and software engineering principles are stressed. Microsoft Visual C++ is used. Lab fee required. Prerequisite: MCIS 1813 Programming in C++ or equivalent.

Repeatable - N

**MCIS 1824 - Computer Science II - CRED - 4.00**

JCOLL - MATH - MATH

Computer Science II covers intermediate-level structured programming, object-oriented programming, and software engineering. This course emphasizes the specification, application, and implementation of abstract data types. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used. This course is presented as a combined lecture and laboratory course. Concepts are presented by lectures and reading assignments. Specific time for students to work on their programming assignments and ask questions about their code is provided during a laboratory section. Notice that students most likely will need to spend additional time outside of the laboratory time to complete their assignments and may ask questions during the instructor's office hours. Four credit hours: Three lecture hours and two lab hours.

Repeatable - N

**MCIS 2414 - Discrete Mathematics - CRED - 4.00**

JCOLL - MATH - MATH

Discrete Mathematics covers mathematical topics pertinent to computer science, such as logic and Boolean algebra, set theory, proof techniques, relations, functions, graphs, trees, counting techniques, and discrete probability. Proof techniques include induction. Counting techniques include permutations, combinations, recurrences, and sequences, and algorithms to generate them. Programs will be implemented, using the concepts learned, to define and manipulate abstract representations of the real world. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used.

Repeatable - N

**MCIS 2810L - Computer Science III Lab - CRED - 0.00**

JCOLL - MATH - MATH

Lab portion of MCIS 2814 which is a course that covers advanced-level structured programming, object-oriented programming, and software engineering. This course emphasizes the lifecycle of software development from problem description to maintenance. Implementation of medium to large-sized programming projects using object-oriented design techniques and modern development environment software tools will be stressed. Software engineering topics include lifecycles, metrics, requirements specifications, design methodologies, validation and verification, testing, reliability, and project planning. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used. This course is presented as a combined lecture and laboratory course. Concepts are presented by lectures and reading assignments. Specific time for students to work on their programming projects and ask questions about their code is provided during a laboratory section. Notice that students most likely will need to spend additional time outside of the laboratory time to complete their assignments and may ask questions during the instructor's office hours.

Repeatable - N

**MCIS 2814 - Computer Science III - CRED - 4.00**

JCOLL - MATH - MATH

Computer Science III covers advanced-level structured programming, object-oriented programming, and software engineering. This course emphasizes the lifecycle of software development from problem description to maintenance. Implementation of medium to large-sized programming projects using object-oriented design techniques and modern development environment software tools will be stressed. Software engineering topics include lifecycles, metrics, requirements specifications, design methodologies, validation and verification, testing, reliability, and project planning. It also addresses issues such as security, ethics, and professionalism. This course can be taught using any object-oriented programming language. Currently, Microsoft Visual C++ 2013 Express is used. This course is presented as a combined lecture and laboratory course. Concepts are presented by lectures and reading assignments. Specific time for students to work on their programming projects and ask questions about their code is provided during a laboratory section. Notice that students most likely will need to spend additional time outside of the laboratory time to complete their assignments and may ask questions during the instructor's office hours.

Repeatable - N

**MGMT 2113 - Principles of Management - CRED - 3.00**

JCOLL - SSBSS - BUSIN

Update Fall 2013: This course presents managerial functions as they apply to business. Planning, organizing, communications, controlling, motivating, leading and staffing are examined in depth. Additional topics include the history of management thought, key managerial skill sets, ethical and social responsibilities, goal and strategy formulation, adapting to organizational change and identifying stakeholders while demonstrating critical and reflective thinking practices. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions. Business elective.

Repeatable - N

**MKTG 2113 - Principles of Marketing - CRED - 3.00**

JCOLL - SSBSS - BUSIN

Update Fall 2013: This course is an introduction to basic concepts and principles of marketing management. topics include ethical responsibilities and issues, market segmentation, targeting and positioning, market research, marketing environments, branding strategies, product planning and development, pricing, promotion and distribution strategies, and factors influencing purchase decisions. Students will recognize the role of critical thinking, leadership, and ethics in making effective business decisions. Business elective.

Repeatable - N

**MSL 101 - Military Science 1 - CRED - 1.00**

JCOLL - MILSCI - MILSCI

Military Science I - for non-contract cadets

Repeatable - N

**MSL 102 - Military Science 1 - CRED - 1.00**

JCOLL - MILSCI - MILSCI

Military Science 1 - second semester

Repeatable - N

**MSL 151 - Military Science 2 - CRED - 2.00**

JCOLL - MILSCI - MILSCI

Military Science 2 - second year coursework for non-contract cadets

Repeatable - N

**MSL 152 - Military Science 2 - CRED - 2.00**

JCOLL - MILSCI - MILSCI

MS 2 - second semester

Repeatable - N

**MSL 201 - Military Science 3 - CRED - 3.00**

JCOLL - MILSCI - MILSCI

Military science course (first year) for contracting cadets.

Repeatable - N

**MSL 202 - Military Science 3 - CRED - 3.00**

JCOLL - MILSCI - MILSCI

Contract cadets second semester work

Repeatable - N

**MSL 205 - MSL Contract Physical Training - CRED - 1.00**

JCOLL - MILSCI - MILSCI

MSL Contract Program physical training Course renamed from MS 3 PT to MS Contract Physical Training and is repeatable for contract cadets. Classified as a field lab activity. (Renamed for Fall 2012 from MS 3 PT to MSL PT)

Repeatable - Y

**MSL 251 - Military Science 4 - CRED - 3.00**

JCOLL - MILSCI - MILSCI

Second year course for contracting cadets

Repeatable - N

**MSL 252 - Military Science 4 - CRED - 3.00**

JCOLL - MILSCI - MILSCI

Military Science 4

Repeatable - N

**MUSC 1011 - Band I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Band is a college course that is designed to provide marching and concert band performance experience-as well as provide musical support for the Corps of Cadets throughout the academic year. Participation in High School Band or equivalent ensemble is a desired prerequisite for this ensemble. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1021 - Band I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Band is a college course that is designed to provide marching and concert band performance experience-as well as provide musical support for the Corps of Cadets throughout the academic year. Participation in High School Band or equivalent ensemble is a desired prerequisite for this ensemble. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1031 - Jazz Band I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Jazz Band affords opportunities to all qualified students who are interested in jazz, popular, and "Big Band" music. This is a select ensemble and admission is gained by audition or invitation of the Bandmaster. High School Jazz Band participation is highly recommended. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1041 - Jazz Band I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Jazz Band affords opportunities to all qualified students who are interested in jazz, popular, and "Big Band" music. This is a select ensemble and admission is gained by audition or invitation of the Bandmaster. High School Jazz Band participation is highly recommended. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1051 - Concert Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Concert Choir is the primary large vocal ensemble at N.M.M.I. It is an elective course for college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a high level of musicianship in a choral performance setting. The entry levels for the course are intermediate pitch recognition, intermediate melodic reiteration, and basic music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1061 - Concert Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Concert Choir is the primary large vocal ensemble at N.M.M.I. It is an elective course for college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a high level of musicianship in a choral performance setting. The entry levels for the course are intermediate pitch recognition, intermediate melodic reiteration, and basic music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1071 - Catholic Chapel Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Catholic Chapel Choir is the performing vocal ensemble for the N.M.M.I. Catholic Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1081 - Catholic Chapel Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Catholic Chapel Choir is the performing vocal ensemble for the N.M.M.I. Catholic Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1091 - Protestant Chapel Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Protestant Chapel Choir is the performing vocal ensemble for the N.M.M.I. Protestant Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1101 - Protestant Chapel Choir I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Protestant Chapel Choir is the performing vocal ensemble for the N.M.M.I. Protestant Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1111 - Applied Music Lsns - CRED - 1.00**

JCOLL - MUSIC - MUSIC

Applied Music Lessons is an elective course offering one-hour credit for jr. college students wishing to acquire private instruction on various instruments and voice. This course is designed for the student with a very serious interest in the continued development of individual performance skills. Participation is open by Music Department Chair permission to those cadets wishing to develop a high level of musicianship in an individual performance setting. The entry level for the course is past general music experience. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1121 - Applied Music Lsns - CRED - 1.00**

JCOLL - MUSIC - MUSIC

Applied Music Lessons is an elective course offering one-hour credit for jr. college students wishing to acquire private instruction on various instruments and voice. This course is designed for the student with a very serious interest in the continued development of individual performance skills. Participation is open by Music Department Chair permission to those cadets wishing to develop a high level of musicianship in an individual performance setting. The entry level for the course is past general music experience. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1131 - Vocal Ensemble I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Vocal Ensemble is the primary small vocal ensemble at N.M.M.I. It is an elective course offering one credit hour for jr. college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a superior level of musicianship in a choral performance setting. The entry levels for the course are advanced pitch recognition, advanced melodic reiteration, and intermediate music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1141 - Vocal Ensemble I - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Vocal Ensemble is the primary small vocal ensemble at N.M.M.I. It is an elective course offering one credit hour for jr. college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a superior level of musicianship in a choral performance setting. The entry levels for the course are advanced pitch recognition, advanced melodic reiteration, and intermediate music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1303 - Music Appreciation - CRED - 3.00**

JCOLL - HUMAN - MUSIC

Music Appreciation is an introductory level music course for the college student. It is an elective course worth three credit hours toward the NMHI Humanities graduation requirement. There is no prerequisite for this course, as it is designed for the student with an interest in learning about music, regardless of musical background. Studies include basic musical concepts and vocabulary; basic music theory and history; and beginning music analysis, listening, and critiquing. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through listening; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1403 - Fundamentals of Music Theory - CRED - 3.00**

JCOLL - HUMAN - MUSIC

Fundamentals of Music Theory, is an introductory level course designed for the college student with a pronounced interest in music. It is an elective or humanities course worth three credit hours toward graduation requirements. Prior training and/or experience in music is required for this course. Studies include music notation, scales, intervals, chord structure, basic composition, basic listening skills development and basic piano skills development. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through listening; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 1991 - Music Indep Study - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Independent study in music determined by student and instructor with syllabus for the specific course submitted prior to approval. Credit may vary from 1.0 to 3.0 depending on the subject and work planned.

Repeatable - N

**MUSC 2011 - Band II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Band is a college course that is designed to provide marching and concert band performance experience-as well as provide musical support for the Corps of Cadets throughout the academic year. Participation in High School Band or equivalent ensemble is a desired prerequisite for this ensemble. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2021 - Band II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Band is a college course that is designed to provide marching and concert band performance experience-as well as provide musical support for the Corps of Cadets throughout the academic year. Participation in High School Band or equivalent ensemble is a desired prerequisite for this ensemble. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2031 - Jazz Band II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Jazz Band affords opportunities to all qualified students who are interested in jazz, popular, and "Big Band" music. This is a select ensemble and admission is gained by audition or invitation of the Bandmaster. High School Jazz Band participation is highly recommended. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2041 - Jazz Band II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Jazz Band affords opportunities to all qualified students who are interested in jazz, popular, and "Big Band" music. This is a select ensemble and admission is gained by audition or invitation of the Bandmaster. High School Jazz Band participation is highly recommended. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through instrumental performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2051 - Concert Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Concert Choir is the primary large vocal ensemble at N.M.M.I. It is an elective course for college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a high level of musicianship in a choral performance setting. The entry levels for the course are intermediate pitch recognition, intermediate melodic reiteration, and basic music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2061 - Concert Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Concert Choir is the primary large vocal ensemble at N.M.M.I. It is an elective course for college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a high level of musicianship in a choral performance setting. The entry levels for the course are intermediate pitch recognition, intermediate melodic reiteration, and basic music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2071 - Catholic Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Catholic Chapel Choir is the performing vocal ensemble for the N.M.M.I. Catholic Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2081 - Catholic Chapel Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Catholic Chapel Choir is the performing vocal ensemble for the N.M.M.I. Catholic Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2091 - Protestant Chapel Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Protestant Chapel Choir is the performing vocal ensemble for the N.M.M.I. Protestant Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2101 - Protestant Chapel Choir II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Protestant Chapel Choir is the performing vocal ensemble for the N.M.M.I. Protestant Chapel Service. It is an elective course offering one credit hour for jr. college students. Participation is open to any cadet wishing to develop and display a basic level of musicianship in a choral performance setting. This course is designed for the student with an interest in music and worship service involvement. The entry level for the course is basic pitch recognition and melodic reiteration. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2111 - Applied Music Lessons II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Applied Music Lessons is an elective course offering one-hour credit for jr. college students wishing to acquire private instruction on various instruments and voice. This course is designed for the student with a very serious interest in the continued development of individual performance skills. Participation is open by Music Department Chair permission to those cadets wishing to develop a high level of musicianship in an individual performance setting. The entry level for the course is past general music experience. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2121 - Applied Music Lessons II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

Applied Music Lessons is an elective course offering one-hour credit for jr. college students wishing to acquire private instruction on various instruments and voice. This course is designed for the student with a very serious interest in the continued development of individual performance skills. Participation is open by Music Department Chair permission to those cadets wishing to develop a high level of musicianship in an individual performance setting. The entry level for the course is past general music experience. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2131 - Vocal Ensemble II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Vocal Ensemble is the primary small vocal ensemble at N.M.M.I. It is an elective course offering one credit hour for jr. college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a superior level of musicianship in a choral performance setting. The entry levels for the course are advanced pitch recognition, advanced melodic reiteration, and intermediate music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**MUSC 2141 - Vocal Ensemble II - CRED - 1.00**

JCOLL - HUMAN - MUSIC

The Vocal Ensemble is the primary small vocal ensemble at N.M.M.I. It is an elective course offering one credit hour for jr. college students. Participation is open by audition and/or the director's permission to those cadets wishing to develop and display a superior level of musicianship in a choral performance setting. The entry levels for the course are advanced pitch recognition, advanced melodic reiteration, and intermediate music reading skills. Upon completion of this course, students will demonstrate a knowledge base for music; demonstrate proficiency through vocal performance; and recognize how music can be used to express ideas and feelings.

Repeatable - N

**ORT 101 - Freshman/Prep Orientation - NONC - 0.00**

JCOLL - -

One semester orientation class for new college freshmen or class for service academy prep cadets (college only)

Repeatable - N

**ORT 102 - Freshman/Prep Orientation II - NONC - 0.00**

JCOLL - -

One semester orientation class for new college freshmen or class for service academy prep cadets (college only)

Repeatable - N

**PHEA 1031 - Beginning Fitness I - CRED - 1.00**

JCOLL - ATHLET - ATH

Mandatory physical education class.

Repeatable - N	
<b>PHEA 1041 - Beginning Fitness II - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Repeatable - N	
<b>PHEA 1051 - Strength &amp; Conditioning I - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity	
Repeatable - N	
<b>PHEA 1061 - Begin Fitness III - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Repeatable - N	
<b>PHEA 1071 - Begin Fitness IV - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Repeatable - N	
<b>PHEA 1111 - Racquet Sports - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Individual sports for a lifetime activity	
Repeatable - N	
<b>PHEA 1121 - Golf - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime sports	
Repeatable - N	
<b>PHEA 1131 - Prep Phys Education - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Special PT lab for Service Academy Preparatory cadets. As of Fall 2006, this course carries 1.0 credit, but 0.0 before Fall 2006.	
Repeatable - N	
<b>PHEA 1141 - Prep Phys Education II - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Special PT lab for Service Academy Preparatory cadets. As of Fall 2006, this course carries 1.0 credit, but 0.0 before Fall 2006.	
Repeatable - N	
<b>PHEA 1151 - Bowling - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity sport	
Repeatable - N	
<b>PHEA 1171 - Tennis - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity sport	
Repeatable - N	
<b>PHEA 1211 - Swimming - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity sport	
Repeatable - N	
<b>PHEA 1251 - Advanced Swimming/Life Guard - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Stresses individual sports with carry-over value for a lifetime. Advanced swimming and life guarding	
Repeatable - N	
<b>PHEA 1311 - Self Defense I - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity sport	
Repeatable - N	
<b>PHEA 1351 - Fencing - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity/olympic fencing	
Repeatable - N	
<b>PHEA 1411 - Dynamic Fitness I - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Lifetime activity sport	
Repeatable - N	
<b>PHEA 1511B - Varsity Sport Baseball - CRED - 1.00</b>	JCOLL - ATHLET - ATH
Varsity sport baseball	
Repeatable - Y	
<b>PHEA 1511F - Varsity Sport - Football - CRED - 1.00</b>	JCOLL - ATHLET - ATH

Varsity sports - football Repeatable - Y	
<b>PHEA 1511G - Varsity Sport Golf - CRED - 1.00</b> Varsity Sport - golf Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511K - Varsity Sport Basketball - CRED - 1.00</b> Varsity Sport basketball Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511R - Var Spt Women Track - CRED - 1.00</b> Varsity sport - womens' track Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511T - Varsity Sprts Tennis - CRED - 1.00</b> Varsity sports tennis Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511TW - Var Sport Womans' Tennis - CRED - 1.00</b> Varsity Sports Womens Tennis Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511V - Varsity Sport Volleyball - CRED - 1.00</b> varsity sport volleyball Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 1511X - Varsity Sport Xcountry - CRED - 1.00</b> Varsity sport cross-country - women primarily Repeatable - Y	JCOLL - ATHLET - ATH
<b>PHEA 2051 - Strength &amp; Conditioning II - CRED - 1.00</b> lifetime activity Repeatable - N	JCOLL - ATHLET - ATH
<b>PHEA 2411 - Dynamic Fitness II - CRED - 1.00</b> Fitness class Repeatable - N	JCOLL - ATHLET - ATH
<b>PHEA 2971 - Advanced Fencing - CRED - 1.00</b> Advanced Fencing work. Repeatable - N	JCOLL - ATHLET - ATH
<b>PHIL 1113 - Introduction to Philosophy - CRED - 3.00</b> This course will briefly survey the history of philosophy from the ancient world to the present age, and then read in some depth one or more of the canonical texts. It is important that the students both get a sense of history of ideas in the West and also take away a more detailed understanding of one or more of its canonical authors. Repeatable - N	JCOLL - HUMAN - PHIL
<b>PHIL 1203 - World Religions - CRED - 3.00</b> This course will survey the great world religions paying attention in particular to the Islam,Hinduism, Buddhism, Taoism, Confucianism, Judaism and Christianity. The concepts of deity, faith, uncertainty, doubt, creation, and man will be central to the course. Repeatable - N	JCOLL - HUMAN - HUMAN
<b>PHIL 1813 - Critical Thinking - CRED - 3.00</b> The verb 'to argue' comes to us from a Latin root that had to do with making clear. Current usage associates the word 'argument' both with reasoning and conflict. In every part of human activity arguments are brought to bear in support or critique of positions and points of view. Because there are many ways of understanding those human interactions gathered together by the word, 'argument,' this course will endeavor to cast some light on what an argument is and what the relationship between argument and truth might be. Primarily we will engage in extensive practice analyzing arguments. Throughout the semester we will be reading everything from Plato to short samples of writing taken from newspapers, magazines and the Internet. There will be a very brief introduction to formal logic and classical rhetoric, but the course will move quickly towards help students learn how to analyze, evaluate, and construct arguments they are likely to encounter in their future university studies and in their everyday lives. Repeatable - N	JCOLL - HUMAN - PHIL
<b>PHIL 2013 - Ethics - CRED - 3.00</b> This course will survey the history of ethics as a branch of philosophy and in the course of this general presentation, read from some of the canonical texts towards either a fuller understanding of some particular aspect of Ethics or a more general investigation into the practical issues that arise both in private and professional life. Repeatable - N	JCOLL - HUMAN - PHIL

**PHIL 2023 - Logic - CRED - 3.00**

JCOLL - HUMAN - PHIL

Fall 2013 update: Course is an introduction to logic and the set theory. The history of formal logic will be briefly outlined and then both predicate and first order logics will be introduced and discussed towards laying the ground both for an understanding of Godel's completeness theorem and its proof. Students will gain some facility with formal proof by working through some of the elementary theorems of set theory and logic.

Repeatable - N

**PHIL 2113 - Greek Philosophy - CRED - 3.00**

JCOLL - HUMAN - PHIL

This course is an introduction to great thinkers of Ancient Greece, including some of the Pre-Socratics (Parmenides and Heraclitus), Socrates, Plato, Aristotle, and, an introduction to the Stoics. The class will engage fundamental questions, such as: Is anything stable and permanent, or is reality always changing? What are poetry/myth, philosophy, and logos? What is justice? What is virtue, and can it be taught? What are being and non-being? Expected outcomes for this course include: strengthening student familiarity with the history of ideas; opening the possibility of formalizing our naïve (and very often effective) capacities to make an argument by deliberately putting into practice some of the methods and principles of classical rhetoric; developing our natural capacities to read and understand conceptually complex texts.

Repeatable - N

**PHIL 2123 - Modern Philosophy - CRED - 3.00**

JCOLL - HUMAN - PHIL

This course will briefly outline the history of western philosophy in the modern period. An historical study of philosophical trends and controversies that characterize the development of early modern philosophy, this course will cover the philosophies of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant. Expected outcomes for this course include: strengthening student familiarity with the history of ideas; opening the possibility of formalizing our naïve (and very often effective) capacities to make an argument by deliberately putting into practice some of the methods and principles of classical rhetoric; developing our natural capacities to read and understand conceptually complex texts.

Repeatable - N

**PHYS 1100L - Intro to Physics Lab - CRED - 0.00**

JCOLL - NATSCI - NATSCI

Lab for PHYS 1104. This course is designed to introduce the concepts of physics at a slower pace than General Physics. It will not meet science requirements for an Associate in Science degree, but will meet one requirement for the Associate in Arts degree. Students who have difficulty with general problem solving should take this course before General Physics. The course will teach and give improved insight into mechanical phenomena of the physical world and show the role that mechanics plays in many facets of our life. Students will gain an appreciation of those physicists and mathematicians who made significant contributions to our current understanding of the world as it exists today.

Repeatable - N

**PHYS 1104 - Introduction to Physics - CRED - 4.00**

JCOLL - NATSCI - NATSCI

This course is designed to introduce the concepts of physics at a slower pace than General Physics. It will not meet science requirements for an Associate in Science degree, but will meet one requirement for the Associate in Arts degree. Students who have difficulty with general problem solving should take this course before General Physics. The course will teach and give improved insight into mechanical phenomena of the physical world and show the role that mechanics plays in many facets of our life. Students will gain an appreciation of those physicists and mathematicians who made significant contributions to our current understanding of the world as it exists today.

Repeatable - N

**PHYS 1110L - General Physics I Lab - CRED - 0.00**

JCOLL - NATSCI - PHYS

Lab for General Physics I. Fundamental principles of classical kinematics and dynamics are presented with applications of Newton's laws of motion, gravitation, friction, circular motion, work and energy principles, linear momentum, rotational kinematics and dynamics, torque and angular momentum, theory of fluids (statics and dynamics), oscillations, wave motion, and sound. Material is presented from the vector algebra point of view. Topics covered are essential for college freshmen students planning for a career in physics, engineering or the physical sciences.

Repeatable - N

**PHYS 1114 - General Physics I - CRED - 4.00**

JCOLL - NATSCI - PHYSICI

Fundamental principles of classical kinematics and dynamics are presented with applications of Newton's laws of motion, gravitation, friction, circular motion, work and energy principles, linear momentum, rotational kinematics and dynamics, torque and angular momentum, theory of fluids (statics and dynamics), oscillations, wave motion, and sound. Material is presented from the vector algebra point of view. Topics covered are essential for college freshmen students planning for a career in physics, engineering or the physical sciences. Lab fee. Student need to have had and passed Algebra II or higher.

Repeatable - N

**PHYS 1120L - General Physics II Lab - CRED - 0.00**

JCOLL - NATSCI - PHYS

Laboratory for Gen Physics II. Fundamental principles of electrostatics, magnetostatics and electrodynamics are presented with applications of Coulomb's law, Gauss's law, electric potential, capacitance, electric current, DC circuits and matrix solution techniques, magnetism, Faraday's law, AC circuits, Maxwell's equations, geometric optics. Material is presented from the vector algebra point of view. Topics covered are essential for college freshmen students planning for a career in physics, engineering or the sciences.

Repeatable - N

**PHYS 1124 - General Physics II - CRED - 4.00**

JCOLL - NATSCI - PHYS

Fundamental principles of electrostatics, magnetostatics and electrodynamics are presented with applications of Coulomb's law, Gauss's law, electric potential, capacitance, electric current, DC circuits and matrix solution techniques, magnetism, Faraday's law, AC circuits, Maxwell's equations, geometric optics. Material is presented from the vector algebra point of view. Topics covered are essential for college freshmen students planning for a career in physics, engineering or the sciences. Prerequisite PHYS 1114. Lab fee.

Repeatable - N

**PHYS 1130L - Physics in the Medical Professions Lab - CRED - 0.00**

JCOLL - NATSCI - PHYSICI

Lab portion of PHYS 1134

Repeatable - N

**PHYS 1134 - Physics in Medical Professions - CRED - 4.00**

JCOLL - NATSCI - PHYSICI

Introduction to the application of physical concepts and methods in the diagnoses and treatment of human disease. Students will be introduced to the basic physical concepts underlying physics in the medical professions; fundamentals of radiation, radiation therapy, medical imaging, radiation biology, and the basic concepts of electromagnetism.

Repeatable - N

**PHYS 2210L - Eng Physics Lab I - CRED - 0.00**

JCOLL - NATSCI - PHYS

Engineering Physics I lab Classical principles of kinematics and dynamics are presented with applications of Newton's laws of motion, gravitation, friction, circular motion, work and energy principles, linear momentum, rotational kinematics and dynamics, torque and angular momentum, theory of fluids (statics and dynamics), oscillations, wave motion, and sound. Material is presented from the vector algebra and vector calculus point of view. Topics covered are essential for college sophomore students planning for a career in physics, engineering or the sciences. Lab fee. Prerequisite: Calculus or instructor approval.

Repeatable - N

**PHYS 2215 - Engineering Physics I - CRED - 5.00**

JCOLL - NATSCI - ATH

Classical principles of kinematics and dynamics are presented with applications of Newton's laws of motion, gravitation, friction, circular motion, work and energy principles, linear momentum, rotational kinematics and dynamics, torque and angular momentum, theory of fluids (statics and dynamics), oscillations, wave motion, and sound. Material is presented from the vector algebra and vector calculus point of view. Topics covered are essential for college sophomore students planning for a career in physics, engineering or the sciences. Prerequisite: Calculus or instructor approval. Lab fee.

Repeatable - N

**PHYS 2220L - Eng Physics II Lab - CRED - 0.00**

JCOLL - NATSCI - PHYS

Engineering Physics II Laboratory. Fundamental principles of electrostatics, magnetostatics and electrodynamics are presented with applications of Coulomb's law, Gauss's law, electric potential, capacitance, electric current, DC circuits and matrix solution techniques, magnetism, Faraday's law, AC circuits, Maxwell's equations, geometric optics. Topics covered are essential for college sophomore students planning for a career in physics, engineering and/or the sciences.

Repeatable - N

**PHYS 2223 - Engineering Statics - CRED - 3.00**

JCOLL - NATSCI - PHYS

Vector Algebra and Coordinate Representations, Systems in Equilibrium, Moment of Force and Equivalence Force systems, Equilibrium of Rigid Bodies, Truss analysis, Centroids and Distributed Force Systems, Internal Forces, Friction Forces, and Moments of Inertia. Prerequisite Calculus I and II or instructor permission.

Repeatable - N

**PHYS 2225 - Engineering Physics II - CRED - 5.00**

JCOLL - NATSCI - PHYS

Fundamental principles of electrostatics, magnetostatics and electrodynamics are presented with applications of Coulomb's law, Gauss's law, electric potential, capacitance, electric current, DC circuits and matrix solution techniques, magnetism, Faraday's law, AC circuits, Maxwell's equations, geometric optics. Topics covered are essential for college sophomore students planning for a career in physics, engineering and/or the sciences. Prerequisite: PHYS 2215, Calculus I and Calculus II.

Repeatable - N

**PLSC 1103 - Introduction to Political Science - CRED - 3.00**

JCOLL - SSBSS - POLSCI

This course presents an introduction to the field of political science. It will discuss the goals and methods of political science. It will discuss how political scientists describe and explain political events and why the events happen. The course will provide students with the tools, key concepts and research findings to help them better understand the political world. The course will prepare students for higher levels of study in political science.

Repeatable - N

**PLSC 1113 - US Politics and Government - CRED - 3.00**

JCOLL - SSBSS - POLSCI

Analyzes the national constitution, federalism, political process, presidency, congress, judiciary, civil rights and liberties, economic policy and formation of foreign policy. Federal government.

Repeatable - N

**PLSC 2113 - International Relations - CRED - 3.00**

JCOLL - SSBSS - POLSCI

Introduces the student to world politics and international conflict with consideration of trade and economic transactions as well as treaties, alliances, and international organizations.

Repeatable - N

**PLSC 2213 - Comparative World Politics - CRED - 3.00**

JCOLL - SSBSS - POLSCI

Overviews the contemporary spectrum of world politics and government. Concepts emphasized include both the principles and structures of government. Comparative analysis is the basic approach to this course.

Repeatable - N

**PLSC 2513 - State and Local Politics/Government - CRED - 3.00**

JCOLL - SSBSS - POLSCI

Explores the process of conflict resolution at the state and local level. Emphasis is on the changes brought about by urbanization, suburbanization, the growth of the sunbelt, and changes accompanying the legislative reapportionment of the recent past. The abstract principles of political science are applied to the real world of politics and government in New Mexico.

Repeatable - N

**PSYC 1113 - General Psychology (Area IV) - CRED - 3.00**

JCOLL - SSBSS - PSYCH

Studies the physiological, biological, and psychological factors which influence human behavior. Students are introduced to classic theorists and theories which attempt to explain human behavior and personality development. Human emotions, motivation, stress, anxiety, neurotic, and psychotic behavior are studied in this course. Emphasizes effective life adjustment in a complex, paradoxical social environment. (Area IV - meets NM Gen Ed social science/behavioral science requirement - NMCCN PSYC 1113)

Repeatable - N

**PSYC 2113 - Psychology of Adjustment - CRED - 3.00**

JCOLL - SSBSS - PSYCH

Explores concepts of mental health and illness, adjustment problems and processes.

Repeatable - N

**PSYC 2123 - Social Psychology - CRED - 3.00**

JCOLL - SSBSS - PSYCH

This course provides an in-depth review of the theories and research methodologies in the field of social psychology. Individual behavior is impacted by the social context and this will be considered by examining such topics as leadership styles, group processes to include obedience and conformity, aggression, social influence, attitudes, prejudice, interpersonal attraction, and conflict.

Repeatable - N

**PSYC 2213 - Developmental Psychology - CRED - 3.00**

JCOLL - SSBSS - PSYCH

Psychological, biological, and social aspects of human development. Special emphasis is given to the physical cognitive, personality, social and moral characteristics of infancy, childhood, adolescence, and adulthood.

Repeatable - N

**PSYC 2313 - Performance Psychology - CRED - 3.00**

JCOLL - SOCSCI - PSYCH

Mental Training for Peak Performance is designed as a vehicle to provide you with a working knowledge of applied sport/performance psychology in order to help you develop and implement an effective mental skills training (MST) program that will help you more fully reach your performance potential in your endeavors. This is a hands-on course oriented towards helping you develop the psychological skills necessary to "become the best performer you can be." The course objectives include: 1. Understand the role psychological factors play in sport performance, 2. Understand how various mental skills and tools could be used to improve performance, enhance enjoyment, and help students develop life skills, 3. Understand various implementation strategies necessary for the development of the key psychological skills, 4. To log goal-setting progress, evaluate its effectiveness, and fine-tune implementation strategies to enhance program effectiveness, 5. To be able to apply the knowledge of various mental tools and skills in real life situations. This is not a social science course and will not meet NMCI social science requirements.

Repeatable - N

**PSYC 2413 - Abnormal Psychology - CRED - 3.00**

JCOLL - SSBSS - PSYCH

This course studies the origin and development of psychopathology, as well as provides the framework for various treatment modalities. There is an emphasis on the biological, social, and psychological determinants of mental disorders. An emphasis on understanding the diagnostic criteria for mental disorders based on the standard classification system used by mental health care professionals will be featured.

Repeatable - N

**READ 0993 - Reading - DEVL - 3.00**

JCOLL - CAE - TLC

Develops college level reading and study strategies via individualized diagnosis and work assignments. A required course for all students concurrently enrolled in ENGL 0993 Students who pass an initial screening examination may be excused. Course is developmental and does not count toward graduation requirements, although it can be used for residency and eligibility purposes.

Repeatable - N

**READ 0995 - Speed Reading - CRED - 0.00**

JCOLL - CAE - SAC

Computer speed reading development courses, designed to improve reading capabilities as measured from a starting evaluation to an ending evaluation. Course is self-paced.

Repeatable - N

**SOCI 1113 - Intro to Sociology (Area IV) - CRED - 3.00**

JCOLL - SSBSS - SOCIAL

Studies the nature and structure of human societies. Stresses sociological methodology, terminology, key concepts, such as culture, socialization, social stratification, collective behavior and social instructions. Designed to give the student a sociological understanding of contemporary American society in a rapidly changing world. (Area IV meets NM Gen Ed social science/behavioral science requirement NMCCN SOCI 1113)

Repeatable - N

**SOCI 2113 - Contemporary Social Problems - CRED - 3.00**

JCOLL - SSBSS - SOCIAL

Analyzes and studies contemporary social problems, their causes, possible solutions, and how they affect human behavior. The problem areas of crime, population, the ecological crises, racism, alienation, poverty, urbanization, and mass media are studied from the various sociological models or social problems.

Repeatable - N

**SOCI 2213 - Contemporary Marriage and Family - CRED - 3.00**

JCOLL - SSBSS - SOCIAL

Studies the nature and the forces that are influencing contemporary family life. Many of the aspects of marriage covered are: male and female role socialization, courtship, mate selection, legal aspects, practical economic considerations, sexual development and adjustment, conflict and adjustment in marriage, divorce, child rearing, and the nature of love.

Repeatable - N

**SPAN 1110L - Elem Spanish I Lab - CRED - 0.00**

JCOLL - HUMAN - FOREIGN

Lab (speaking/listening) for Elementary Spanish I

Repeatable - N

**SPAN 1114 - Elementary Spanish I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Elementary Spanish I is an introductory Spanish course at the first-year college level. This course is designed for students with no prior knowledge of Spanish. This course introduces basic everyday vocabulary and grammar. Students are expected to develop communicative competency in the skills of listening, speaking, reading, and writing. This course will also provide an introduction to the basic culture of Spanish-speaking countries. Students are expected to complete some language practice using interactive multi-media materials.

Repeatable - N

**SPAN 1124 - Elementary Spanish II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Elementary Spanish II is a continuation of first-year college level Spanish. This course is designed for students who have successfully completed SPAN 1114. This course continues the introduction of basic everyday vocabulary and grammar. Students are expected to continue to develop communicative competency in the skills of listening, speaking, reading, and writing. This course will also provide an introduction to the basic culture of Spanish-speaking countries. Students are expected to complete some language practice using interactive multi-media materials.

Repeatable - N

**SPAN 2114 - Intermediate Spanish I - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Spanish I is a second-year college level Spanish class. This course is designed for students who successfully completed the first-year Spanish sequence. This course builds on the basic everyday vocabulary and grammar introduced in the first-year course. Students are expected to develop communicative competency in the skills of listening, speaking, reading, and writing. This course will also cover the basic culture of Spanish-speaking countries. Students are expected to complete some language practice using interactive multi-media materials.

Repeatable - N

**SPAN 2124 - Intermediate Spanish II - CRED - 4.00**

JCOLL - HUMAN - FOREIGN

Intermediate Spanish II is a continuation of second-year college level Spanish class. This course is designed for students who successfully completed SPAN 2114. This course builds on the basic everyday vocabulary and grammar introduced in previous courses. Students are expected to develop communicative competency in the skills of listening, speaking, reading, and writing. This course will also cover the basic culture of Spanish-speaking countries. Students are expected to complete some language practice using interactive multi-media materials.

Repeatable - N