**Associate in General Education – (A10300**)

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| **ENG-111** | **Writing and Inquiry** | **ENG-111** |

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| This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. |

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| Competencies |
| Student Learning Outcomes1. Demonstrate writing as a recursive process.2. Demonstrate writing and inquiry in context using different rhetorical strategies to reflect, analyze, explain, and persuade in a variety of genres and formats.3. Students will reflect upon and explain their writing strategies.4. Demonstrate the critical use and examination of printed, digital, and visual materials.5. Locate, evaluate, and incorporate relevant sources with proper documentation.6. Compose texts incorporating rhetorically effective and conventional use of language.7. Collaborate actively in a writing community. |

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| State Prerequisites | Take One Set:Set 1: DRE-097Set 2: ENG-002Set 3: BSP-4002 |

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| State Corequisites | Take ENG-011 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in English Composition.This course has been approved for transfer under the ICAA as a general education course in English Composition. |

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| **ENG-112** | **Writing/Research in the Disc** | **ENG-112** |

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| This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. |

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| State Prerequisites | Take ENG-111 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in English Composition.This course has been approved for transfer under the ICAA as a general education course in English Composition. |
| **ENG-114** | **Prof Research & Reporting** | **ENG-114** |

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| This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. |

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| State Prerequisites | Take ENG-111 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in English Composition.This course has been approved for transfer under the ICAA as a general education course in English Composition. |

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| **COM-231** | **Public Speaking** | **COM-231** |

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| This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Communication.This course has been approved for transfer under the ICAA as a general education course in Communication. |
| **ENG-132** | **Introduction to Drama ENG 132** |  |

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| This course provides intensive study of drama as a literary form, based on close reading of representative texts. Emphasis is placed on the development and analysis of drama. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of drama. |

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| State Prerequisites | Take ENG-111 |

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| State Corequisites | Take One: ENG-112, ENG-113, or ENG-114 |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **HUM-115** | **Critical Thinking** | **HUM-115** |

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| This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. |

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| State Prerequisites | Take one set:Set 1: DRE-098Set 2: ENG-002Set 3: BSP-4002Set 4: ENG-111 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **HUM-120** | **Cultural Studies** | **HUM-120** |

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| This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **REL-111** | **Eastern Religions** | **REL-111** |

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| This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **REL-112** | **Western Religions** | **REL-112** |

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| This course introduces the major western religious traditions. Topics include Zoroastrianism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **ART-111** | **Art Appreciation** | **ART-111** |

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| This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **ART-114** | **Art History Survey I** | **ART-114** |

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| This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **ART-115** | **Art History Survey II** | **ART-115** |

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| This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **ART-117** | **Non-Western Art History** | **ART-117** |

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| This course introduces non-Western cultural perspectives. Emphasis is placed on, but not limited to, African, Oriental, and Oceanic art forms throughout history. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of non-Western social and cultural development. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **MUS-110** | **Music Appreciation** | **MUS-110** |

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| CIS Course ID | S13676 |
| Effective Term | Summer 1997 |
| End Term |  |

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| Class | 3 | Lab | 0 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. |
| **ECO-251** | **Prin of Microeconomics** | **ECO-251** |

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| This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **ECO-252** | **Prin of Macroeconomics** | **ECO-252** |

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| This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **HIS-111** | **World Civilizations I** | **HIS-111** |

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| This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **HIS-112** | **World Civilizations II** | **HIS-112** |

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| This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **HIS-131** | **American History I** | **HIS-131** |

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| This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **HIS-132** | **American History II** | **HIS-132** |

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| This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **HIS-221** | **African-American History** | **HIS-221** |

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| This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **PSY-150** | **General Psychology** | **PSY-150** |

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| This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **PSY-241** | **Developmental Psych** | **PSY-241** |

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| This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. |

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| State Prerequisites | Take PSY-150 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **PSY-265** | **Behavioral Modification** | **PSY-265** |

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| This course is an applied study of factors influencing human behavior and strategies for behavioral change. Emphasis is placed on cognitive-behavioral theory, behavioral assessment, practical applications of conditioning techniques, and maintenance of adaptive behavior patterns. Upon completion, students should be able to implement basic learning principles to effect behavioral changes in self and others. |

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| State Prerequisites | Take PSY-150 |

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| State Corequisites | None |

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| College Transfer | N/A |
| **PSY-281** | **Abnormal Psychology** | **PSY-281** |

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| This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. |

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| State Prerequisites | Take PSY-150 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **SOC-210** | **Introduction to Sociology** | **SOC-210** |

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| This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. |

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| State Prerequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **SOC-213** | **Sociology of the Family** | **SOC-213** |

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| This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. |

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| State Prerequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. |
| **BIO-111** | **General Biology I** | **BIO-111** |

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| This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **BIO-112** | **General Biology II** | **BIO-112** |

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| This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. |

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| State Prerequisites | Take BIO-111 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **BIO-163** | **Basic Anat & Physiology** | **BIO-163** |

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| This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **BIO-168** | **Anatomy and Physiology I** | **BIO-168** |

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| This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. |

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| State Prerequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **BIO-169** | **Anatomy and Physiology II** | **BIO-169** |

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| This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. |

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| State Prerequisites | Take BIO-168 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **BIO-275** | **Microbiology** | **BIO-275** |

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| This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. |

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| State Prerequisites | Take One: BIO 110, BIO 111, BIO 163, BIO 165, or BIO 168 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |
| **CHM-131** | **Introduction to Chemistry** | **CHM-131** |

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| This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **CHM-131A** | **Intro to Chemistry Lab** | **CHM-131A** |

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| This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. |

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| State Prerequisites | None |

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| State Corequisites | Take CHM-131 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **CHM-132** | **Organic and Biochemistry** | **CHM-132** |

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| This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. |

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| State Prerequisites | Take one set:Set 1: CHM-131 and CHM-131ASet 2: CHM-151 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **CHM-151** | **General Chemistry I** | **CHM-151** |

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| This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **CHM-152** | **General Chemistry II** | **CHM-152** |

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| This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. |

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| State Prerequisites | Take CHM-151 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **PHY-110** | **Conceptual Physics** | **PHY-110** |

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| This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Natural Science.This course has been approved for transfer under the ICAA as a general education course in Natural Science. |
| **MAT-110** | **Math Measurement & Literacy** | **MAT-110** |

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| This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results. |

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| Competencies |
| ·Student Learning Outcomes1. Demonstrate estimation skills and justify results.2. Use dimensional analysis to convert units of measurement.3. Employ fractions, percentages and proportions to solve contextual problems.4. Compute geometric measurements of perimeter, area, volume and angles.5. Use technology to analyze and interpret elements of personal finance.6. Compare and contrast measures of center and measures of dispersion.7. Interpret tables, charts, and graphs and communicate results. |

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| State Prerequisites | Take One Set:Set 1: DMA-010, DMA-020, and DMA-030Set 2: DMA-025Set 3: MAT-003Set 4: BSP-4003 |

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| State Corequisites | Take MAT-010 |

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| College Transfer | N/A |
| **MAT-143** | **Quantitative Literacy** | **MAT-143** |

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| This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. |

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| Competencies |
| ·Student Learning Outcomes1. Judge the reasonableness of results using estimation, logical processes, and a proper understanding of quantity2. Utilize proportional reasoning to solve contextual problems and make conversions involving various units of measurement3. Identify, interpret, and compare linear and exponential rates of growth to make predictions and informed decisions based on data and graphs4. Differentiate between simple and compound interest and analyze the long-term effects of saving, investing, and borrowing5. Describe, analyze, and interpret statistical information such as graphs, tables, and summarized data to draw appropriate conclusions when presented with actual statistical studies6. Determine probabilities and expected values and use them to assess risk and make informed decisions7. Analyze civic and/or societal issues and critique decisions using relevant mathematics |

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| State Prerequisites | Take One Set:Set 1: DMA-010, DMA-020, DMA-030, and DRE-098Set 2: DMA-010, DMA-020, DMA-030, and ENG-002Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002Set 4: DMA-025, and DRE-098Set 5: DMA-025, and ENG-002Set 6: DMA-025, and BSP-4002Set 7: MAT-003 and DRE-098Set 8: MAT-003 and ENG-002Set 9: MAT-003 and BSP-4002Set 10: BSP-4003 and DRE-098Set 11: BSP-4003 and ENG-002Set 12: BSP-4003 and BSP-4002 |

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| State Corequisites | Take MAT-043 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). |
| **MAT-152** | **Statistical Methods I** | **MAT-152** |

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| This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. |

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| Competencies |
| ·Student Learning Outcomes1. Organize, display, calculate, and interpret descriptive statistics2. Apply basic rules of probability3. Identify and apply appropriate probability distributions4. Perform regression analysis5. Analyze sample data to draw inferences about a population parameter6. Communicate results through a variety of media |

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| State Prerequisites | Take One Set:Set 1: DMA-010, DMA-020, DMA-030, and DRE-098Set 2: DMA-010, DMA-020, DMA-030, and ENG-002Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002Set 4: DMA-025, and DRE-098Set 5: DMA-025, and ENG-002Set 6: DMA-025, and BSP-4002Set 7: MAT-003 and DRE-098Set 8: MAT-003 and ENG-002Set 9: MAT-003 and BSP-4002Set 10: BSP-4003 and DRE-098Set 11: BSP-4003 and ENG-002Set 12: BSP-4003 and BSP-4002 |

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| State Corequisites | Take MAT-052 |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). |
| **MAT-171** | **Precalculus Algebra** | **MAT-171** |

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| This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology. |

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| Competencies |
| ·Student Learning Outcomes1. Use analytical, graphical, and numerical representations to solve absolute value, radical, polynomial, rational, exponential, and logarithmic equations with both real and complex solutions.2. Use analytical, graphical, and numerical representations to solve absolute value, polynomial and rational inequalities with real solutions.3. Use analytical, graphical, and numerical representations to analyze absolute value, radical, polynomial, rational, exponential and logarithmic functions with both real and complex zeros.4. Use multiple methods to solve problems involving systems of equations and apply to decomposing partial fractions.5. Construct the composition and inverse of functions.6. Use polynomial, exponential and logarithmic functions to model various real world situations in order to analyze, draw conclusions, and make predictions. |

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| State Prerequisites | Take One Set:Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050,DMA-060, DMA-070, and DMA-080Set 2: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, andDMA-065Set 3: DMA-010, DMA-020, DMA-030, DMA-045, DMA-060,DMA-070, and DMA-080Set 4: DMA-010, DMA-020, DMA-030, DMA-045, and DMA-065Set 5: DMA-025, DMA-040, DMA-050, DMA-060, DMA-070, andDMA-080Set 6: DMA-025, DMA-040, DMA-050, and DMA-065Set 7: DMA-025, DMA-045, DMA-060, DMA-070, and DMA-080Set 8: DMA-025, DMA-045, and DMA-065Set 9: MAT-121Set 10: MAT-003Set 11: BSP-4003 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics.This course has been approved for transfer under the ICAA as a general education course in Mathematics. |
| **MAT-172** | **Precalculus Trigonometry** | **MAT-172** |

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| This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology. |

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| Competencies |
| ·Student Learning Outcomes1. Use the unit circle and right triangle definitions to evaluate and graph trigonometric functions and their inverses, to derive trigonometric identities, and to simplify trigonometric expressions.2. Use multiple methods to solve problems involving trigonometric equations, right triangles, and oblique triangles.3. Demonstrate knowledge of vector definitions and perform vector operations.4. Convert equations and graphs between rectangular and polar coordinate systems, and apply to complex numbers.5. Use multiple representations to define, construct and analyze conic sections.6. Create, graph, and analyze parametric equations. |

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| State Prerequisites | Take MAT-171 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics.This course has been approved for transfer under the ICAA as a general education course in Mathematics. |
| **CIS-110** | **Introduction to Computers** | **CIS-110** |

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| This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. |

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| Competencies |
| 1. Identify the basic elements required in a computer system.2. Produce electronic documents using various software applications.3. Illustrate the role of the computer for personal and professional uses. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). |
| **CIS-111** | **Basic PC Literacy** | **CIS-111** |

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| This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | N/A |
| **CIS-115** | **Intro to Prog & Logic** | **CIS-115** |

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| This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language. |

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| Competencies |
| 1. Apply control structures2. Apply top-down algorithmic design.3. Implement algorithmic solutions in a programming language. |

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| State Prerequisites | Take One Set:Set 1: DMA-010, DMA-020, DMA-030, and DMA-040Set 2: DMA-025 and DMA-040Set 3: MAT-121Set 4: MAT-171Set 5: MAT-003Set 6: BSP-4003 |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). |
| **ACA-122** | **College Transfer Success** | **ACA-122** |

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| This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. |

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| Competencies |
| 1. Develop a strategic plan for completing community college academic goals, including certificates, diplomas, and/or associate degrees.2. Develop a strategic plan for transferring to a university and preparing for a new career.3. Identify the rights and responsibilities of transfer students under the Comprehensive Articulation Agreement (CAA), including Universal General Education Transfer Component (UGETC) designated courses, the Transfer Assured Admissions Policy (TAAP), the CAA appeals process, and university tuition surcharge.4. Evaluate learning strategies, including note-taking, test-taking, information processing, time management, and memorization techniques, and identify strategies for improvement.5. Identify essential college resources, including financial aid, advising, registration, tutoring, library services, computer labs, and counseling services and recognize the importance of these resources on student success.6. Identify essential college policies and procedures, including academic integrity such as avoiding plagiarism; calculating a GPA, and maintaining satisfactory academic progress for financial aid eligibility and/or good academic standing. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| College Transfer | This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. |