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| **ACA-111\_1997SU** | **College Student Success** | **ACA-111** |

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| CIS Course ID | S13509 |
| Effective Term | Summer 1997 |
| End Term |  |

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| Class | 1 | Lab | 0 | Clinical | 0 | Work | 0 | Credit | 1 |

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| This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| **ACA-122\_2014SU** | **College Transfer Success** | **ACA-122** |

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| CIS Course ID | S24018 |
| Effective Term | Summer 2014 |
| End Term |  |

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| Class | 0 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 1 |

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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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| ENG-102\_1997SU | Applied Communications II | ENG-102 |

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| CIS Course ID | S12952 |
| 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 designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| ISC-112\_2013FA | Industrial Safety | ISC-112 |

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| CIS Course ID | S23527 |
| Effective Term | Fall 2013 |
| End Term |  |

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| Class | 2 | Lab | 0 | Clinical | 0 | Work | 0 | Credit | 2 |

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| This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance. |

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| Competencies |
| Student Learning Outcomes 1. Describe and identify safety practices required to perform various job-related activities. 2. Describe the application of OSHA procedures and requirements for compliance. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| MAT-110\_2020FA | Math Measurement & Literacy | MAT-110 |

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| CIS Course ID | S25428 |
| Effective Term | Fall 2020 |
| End Term |  |

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| Class | 2 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 3 |

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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 Outcomes 1. 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-030 Set 2: DMA-025 Set 3: MAT-003 Set 4: BSP-4003 |

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| State Corequisites | Take MAT-010 |

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| PHY-110\_1997SU | Conceptual Physics | PHY-110 |

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| CIS Course ID | S12004 |
| 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 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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| WBL-111\_2014FA | Work-Based Learning I | WBL-111 |

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| CIS Course ID | S23794 |
| Effective Term | Fall 2014 |
| End Term |  |

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| Class | 0 | Lab | 0 | Clinical | 0 | Work | 10 | Credit | 1 |

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| This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-110\_2013FA | Cutting Processes | WLD-110 |

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| CIS Course ID | S23303 |
| Effective Term | Fall 2013 |
| End Term |  |

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| Class | 1 | Lab | 3 | Clinical | 0 | Work | 0 | Credit | 2 |

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| This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness. |

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| Competencies |
| Student Learning Outcomes 1.Identify the parts and functions of an oxy-acetylene cutting torch. 2.Identify the parts and functions of various cutting equipment. 3.List the safety practices of using oxy-fuel, plasma-arc, and other cutting equipment. 4.Set-up and adjust cutting equipment. 5.Use an oxy-acetylene outfit, plasma cutting equipment, and other equipment to: a.Cut a straight marked line on various thickness steel plate. b.Cut various shapes out of carbon steel plate. c.Cut carbon steel plate to a bevel and pipe. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-112\_1997SU | Basic Welding Processes | WLD-112 |

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| CIS Course ID | S10926 |
| Effective Term | Summer 1997 |
| End Term |  |

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| Class | 1 | Lab | 3 | Clinical | 0 | Work | 0 | Credit | 2 |

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| This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-115\_2013FA | SMAW (Stick) Plate | WLD-115 |

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| CIS Course ID | S23304 |
| Effective Term | Fall 2013 |
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| Class | 2 | Lab | 9 | Clinical | 0 | Work | 0 | Credit | 5 |

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| This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes. |

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| Competencies |
| Student Learning Outcomes 1.Demonstrate SMAW electrode classification in compliance with AWS codes. 2.Perform a groove weld according to AWS D1.1.  3.Demonstrate safe and proper SMAW equipment setup, operation, and shut-down practices in accordance to manufacturer's recommendations. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-116\_1997SU | SMAW (stick) Plate/Pipe | WLD-116 |

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| CIS Course ID | S10935 |
| Effective Term | Summer 1997 |
| End Term |  |

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| Class | 1 | Lab | 9 | Clinical | 0 | Work | 0 | Credit | 4 |

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| This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions. |

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| State Prerequisites | Take WLD-115 |

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| State Corequisites | None |

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| WLD-121\_2013FA | GMAW (MIG) FCAW/Plate | WLD-121 |

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| CIS Course ID | S23305 |
| Effective Term | Fall 2013 |
| End Term |  |

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| Class | 2 | Lab | 6 | Clinical | 0 | Work | 0 | Credit | 4 |

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| This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions. |

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| Competencies |
| Student Learning Outcomes 1.Demonstrate the use of GMAW electrode classification in compliance with AWS code for the selection of electrodes. 2.Demonstrate the use of FCAW electrode classification in compliance with AWS code for the selection of electrodes. 3. Perform a Fillet weld in accordance with AWS code. 4.Perform a groove weld in accordance with AWS code. 5.Demonstrate safe and proper GMAW equipment setup, operation, and shut-down practices in accordance to manufacturer's recommendations. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-131\_2013FA | GTAW (TIG) Plate | WLD-131 |

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| CIS Course ID | S23306 |
| Effective Term | Fall 2013 |
| End Term |  |

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| Class | 2 | Lab | 6 | Clinical | 0 | Work | 0 | Credit | 4 |

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| This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials. |

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| Competencies |
| Student Learning Outcomes 1.Demonstrate the use of GTAW electrode classification in compliance with AWS for the selection of electrodes. 2.Perform a groove weld in accordance with AWS code. 3.Perform a Fillet weld in accordance with AWS code. 4.Demonstrate safe equipment setup, operation, and shut-down practices according to manufacturer's recommendations. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-141\_2013FA | Symbols & Specifications | WLD-141 |

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| CIS Course ID | S23307 |
| Effective Term | Fall 2013 |
| End Term |  |

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| Class | 2 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding. |

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| Competencies |
| Student Learning Outcomes 1.Identify and read welding symbols. 2.Identify and explain various lines, notes, and specifications on a blueprint. 3.Identify the different types of lines on a blueprint. 4.Interpret destructive testing symbols and their methods. 5.Interpret non-destructive testing symbols and their methods. 6.Develop a working sketch. 7.Create a bill of materials from a blueprint. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| WLD-151\_2009FA | Fabrication I | WLD-151 |

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| CIS Course ID | S22456 |
| Effective Term | Fall 2009 |
| End Term |  |

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| Class | 2 | Lab | 6 | Clinical | 0 | Work | 0 | Credit | 4 |

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| This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment. |

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| State Prerequisites | None |

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| State Corequisites | None |