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Machining & Manufacturing Technology - AAS

Semester-by-Semester Pathway

An Associates of Applied Science Degree emphasizes preparation in the applied arts and sciences for careers, typically at the technical or semi-professional level. This degree totals 63 credits. Consult with an advisor for more information. Not all courses are offered each semester.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

| Semester 1 - Fall | | | | |
|-------------------|------------------------------------------|----------------------------------|--------------|--------------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | MC104 | Machine Technology Math | 2.00 | Fall, Spring |
| | MC110 | Bench Work | 1.00 | Fall |
| | MC115 | Machining I | 3.00 | Fall |
| | TR121 | General Industrial Safety/OSHA10 | 1.00 | Fall |
| Electives | | | | |
| | Machine Technology Communication Options | | 3.00 | |
| | Machine Technology Technical Options | | 6.00 | |
| Semester Total: | | | 16.00 | |

| Semester 2 - Spring | | | | |
|---------------------|--------------------------------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | MC111 | Print Reading | 3.00 | Fall, Spring |
| | MC113 | Metallurgy | 1.00 | Spring Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher. |
| | MC116 | Machining II | 3.00 | Fall, Spring Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher. |
| Electives | | | | |
| | General Education Options | | 3.00 | |
| | Machine Technology Technical Options | | 6.00 | |
| Semester Total: | | | 16.00 | |

| Semester 3 - Fall | | | | |
|-------------------|-----------|--------------------------------|--------------|--------------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | MC112 | Quality Control and Inspection | 1.00 | Fall, Spring |
| | MC117 | CNC Operations | 3.00 | Fall |

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| | | | | Prereq: MC115 Machining I with a Grade of C or higher, or Departmental Consent. |
| | MC204 | Machine Practices I | 3.00 | Fall Prereq: Departmental Consent. |
| Electives | | | | |
| | General Education Options | | 3.00 | |
| | Machine Technology Technical Options | | 6.00 | |
| Semester Total: | | | 16.00 | |

| Semester 4 - Spring | | | | |
|---------------------|-------------------------------------------|-------------------------|--------------|----------------------------------------------------------------------------------------------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | MC114 | Machine Tool Processes | 1.00 | Spring |
| | MC205 | Machine Practices II | 3.00 | Spring Prereq: Departmental Consent, or MC204 Machine Practices I w/Grade of C or higher. |
| | MC206 | CNC Operations-Advanced | 3.00 | Spring Prereq: MC117 CNC Operations. |
| | TR120 | Work Ethics | 2.00 | Fall, Spring |
| Electives | | | | |
| | Machine Technology Math Options | | 3.00 | |
| | Machine Technology Social Science Options | | 3.00 | |
| Semester Total: | | | 15.00 | |

Total Credits: 63.00

*Semester offerings reflect the current academic year.

| General Education Options | | | |
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| Course ID | Course Title | Credit Hours | Notes |
| AR101 | Art Appreciation ▶ | 3.00 | Fall, Spring, Summer |
| AR104 | Art History: Paleolithic to Medieval ▶ | 3.00 | Fall |
| AR105 | Art History: Renaissance to Modern ▶ | 3.00 | Spring |
| AR106 | Art in the Elementary Classroom ▶ | 3.00 | Fall, Spring |
| AR110 | Drawing I ▶ | 3.00 | Fall |
| BI100 | Basic Concepts for Allied Health Studies | 1.00 | Fall, Spring, Summer |
| BI101 | General Biology ▶ | 4.00 | Fall, Spring, Summer |
| BI102 | Ecology of Environmental Problems ▶ | 3.00 | Spring |
| BI103 | Human Anatomy and Physiology ▶ | 6.00 | Fall, Spring, Summer Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C. |
| BI104 | Biology I ▶ | 5.00 | Fall, Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher. |
| BI105 | Biology II ▶ | 5.00 | Spring Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I. |
| BI112 | General Microbiology ▶ | 4.00 | Fall, Spring, Summer Prereq: (BI101,BI103,BI104,BI105)BI107 is not a valid prereq code. |
| BI115 | Basic Radiation Biology | 2.00 | Spring Prereq: BI103 Human A&P. |
| BU105 | Introduction to Business ▶ | 3.00 | Fall, Spring, Summer |
| BU107 | Personal Finance ▶ | 3.00 | Fall, Spring, Summer |
| BU108 | Business Mathematics | 3.00 | Fall, Spring, Summer |
| BU109 | Business Communications ▶ | 3.00 | Fall, Spring, Summer |
| BU118 | Introduction to Leadership ▶ | 3.00 | Fall, Spring |
| CH101 | General Chemistry ▶ | 5.00 | Fall, Spring, Summer Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics. |
| CH105 | Chemistry I ▶ | 5.00 | Fall, Spring Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+. |
| CH106 | Chemistry II ▶ | 5.00 | Spring Prereq: CH105 Chemistry I with a C or Higher. |
| CH108 | Principles of Organic and Biochemistry ▶ | 5.00 | Fall Prereq: CH105 Chemistry I, or Departmental Consent. |
| CH201 | Organic Chemistry I ▶ | 5.00 | Fall Prereq: CH106 Chemistry II. |
| CH202 | Organic Chemistry II ▶ | 5.00 | Spring Prereq: CH201 Organic Chemistry I. |
| EC100 | Macroeconomics ▶ | 3.00 | Fall, Spring, Summer |
| EC101 | Microeconomics ▶ | 3.00 | Fall, Spring, Summer |
| ED105 | Success Seminar/College Orientation | 1.00 | Fall, Spring, Summer |
| ED201 | Introduction to Education ▶ | 3.00 | Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| ED201L | Introduction to Education Practicum ▶ | 1.00 | Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| EN100 | English Composition IB ▶ | 3.00 | Fall, Spring, Summer Prereq: EN098 Intro to College Writing with a grade of C or higher, or Accuplacer Next Generation Writing Score of 240 to 254, or HS GPA over 2.25, or ACT English Score of 17 to 19. |
| EN101 | English Composition IA ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above. |

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| EN102 | English Composition II ▶ | 3.00 | Fall, Spring, Summer Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN107 | Business English Grammar & Composition | 3.00 | Fall, Spring |
| EN108 | Career and Technical Writing | 3.00 | Fall, Spring |
| EN120 | Children's Literature ▶ | 3.00 | Fall, Spring |
| EN121 | World Mythology | 3.00 | Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN128 | Introduction to Creative Writing ▶ | 3.00 | Fall, Spring |
| EN201 | Introduction to Literature ▶ | 3.00 | Fall, Summer Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher. |
| EN202 | British Literature I | 3.00 | Fall Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN203 | British Literature II | 3.00 | Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN204 | American Literature I ▶ | 3.00 | Fall Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN205 | American Literature II ▶ | 3.00 | Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN207 | Introduction to Shakespeare | 3.00 | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN214 | Introduction to Cultural Studies: Fairy Tales | 3.00 | Fall, Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| GE101 | World Geography ▶ | 3.00 | Fall, Spring, Summer |
| GO100 | American Government ▶ | 3.00 | Fall, Spring, Summer |
| GO101 | State and Local Government ▶ | 3.00 | |
| GO102 | International Relations ▶ | 3.00 | Spring |
| GO110 | Introduction to Political Science ▶ | 3.00 | Fall |
| GO110H | Honors Introduction to Political Science ▶ | 3.00 | Fall |
| HI101 | American History 1492-1865 ▶ | 3.00 | Fall, Spring, Summer |
| HI102 | American History 1865-Present ▶ | 3.00 | Fall, Spring, Summer |
| HI103 | World History to 1600 ▶ | 3.00 | Fall, Spring, Summer |
| HI104 | World History Since 1600 ▶ | 3.00 | Fall, Spring, Summer |
| HI122 | Film History of World War II | 3.00 | Spring |
| HI201 | Topics in History | 3.00 | |
| IS103 | Microcomputer Literacy | 2.00 | Fall, Spring, Summer |
| IS104 | Microcomputer Applications ▶ | 3.00 | Fall, Spring, Summer |
| JL101 | Introduction to Mass Communications ▶ | 3.00 | Fall, Spring, Summer |
| LE101 | Introduction to Criminal Justice ▶ | 3.00 | Fall, Spring |
| MA106 | College Algebra ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher. |
| MA107 | Plane Trigonometry ▶ | 3.00 | Fall, Spring, Summer Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36. |
| MA108 | Elements of Statistics ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher. |
| MA110 | Calculus ▶ | 3.00 | Fall, Spring, Summer Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA111 | Analytical Geometry and Calculus I ▶ | 5.00 | Fall, Spring, Summer |

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| | | | Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA113 | Analytical Geometry and Calculus II ▶ | 5.00 | Fall, Spring, Summer Prereq: MA111 with a grade of C or higher. |
| MA117 | Contemporary Math ▶ | 3.00 | Fall, Spring, Summer |
| MA201 | Analytical Geometry and Calculus III | 5.00 | Fall, Summer Prereq: MA113 with a grade of C or higher. |
| MA206 | Differential Equations ▶ | 3.00 | Fall, Spring Prereq: MA113 with a grade of C or higher. |
| MU101 | Music Appreciation ▶ | 3.00 | Fall, Spring, Summer |
| MU106 | Music Theory I ▶ | 3.00 | Fall |
| MU107 | Music Theory II ▶ | 3.00 | Spring Prereq: MU106 Music Theory I. |
| MU127 | Introduction To Jazz/Jazz Rock | 3.00 | Fall, Spring |
| MU206 | Music Theory III | 3.00 | Fall Prereq: MU107 Music Theory II. |
| MU207 | Music Theory IV | 3.00 | Spring Prereq: MU206 Music Theory III. |
| PE105 | Personal and Community Health ▶ | 3.00 | Fall, Spring, Summer |
| PE122 | Rhythms I | 2.00 | Fall |
| PE123 | Rhythms II | 2.00 | Spring |
| PE126 | Conditioning and Fitness Concepts I | 1.00 | Fall, Spring, Summer |
| PE127 | Conditioning and Fitness Concepts II | 1.00 | Fall, Spring, Summer Prereq: PE126 Conditioning & Fitness Concepts I. |
| PE173 | Fitness for Life | 1.00 | Fall, Spring, Summer |
| PL101 | Introduction to Philosophy ▶ | 3.00 | Fall, Spring, Summer |
| PL103 | Logic and Critical Thinking ▶ | 3.00 | Fall, Spring |
| PL104 | Ethics ▶ | 3.00 | Fall, Spring, Summer |
| PL105 | Death and Dying | 3.00 | Fall, Spring, Summer |
| PS100 | General Psychology ▶ | 3.00 | Fall, Spring, Summer |
| PS101 | Human Relations | 3.00 | Fall, Spring, Summer |
| PS102 | Human Growth and Development ▶ | 3.00 | Fall, Spring, Summer Prereq: PS100 General Psychology. |
| PS201 | Psychology of Personality | 3.00 | Fall, Spring Prereq: PS100 General Psychology with grade of C or higher. |
| PS202 | Abnormal Psychology | 3.00 | Fall, Spring Prereq: PS100 General Psychology. |
| PY102 | Weather and Climate | 3.00 | Spring |
| PY103 | Physical Geology ▶ | 3.00 | Fall, Spring, Summer |
| PY104L | Physical Geology Lab ▶ | 1.00 | Fall, Spring, Summer Prereq: PY103 Physical Geology. |
| PY110 | Physical Science ▶ | 5.00 | Fall, Spring |
| PY112 | General Physics I ▶ | 5.00 | Fall Prereq: MA106 College Algebra or higher math. |
| PY113 | General Physics II ▶ | 5.00 | Spring Prereq: PY112 Gen Physics I. |
| PY201 | Engineering Physics I ▶ | 5.00 | Fall Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus. |
| PY202 | Engineering Physics II ▶ | 5.00 | Spring Prereq: PY201 Eng Phys I with grade of C or better. |
| RE101 | New Testament Literature ▶ | 3.00 | Spring |
| RE102 | Old Testament Literature ▶ | 3.00 | Fall |
| RE106 | Introduction to World Religions ▶ | 3.00 | Spring |
| SH101 | Public Speaking ▶ | 3.00 | Fall, Spring, Summer |

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| SH103 | Oral Interpretation | 3.00 | Spring |
| SH122 | Voice and Diction ▶ | 3.00 | Fall |
| ★ SH210 | Interpersonal Communication ▶ | 3.00 | Fall, Spring, Summer |
| SO100 | Fundamentals of Sociology ▶ | 3.00 | Fall, Spring, Summer |
| SO101 | Marriage and Family ▶ | 3.00 | Fall, Spring, Summer |
| SO103 | Stress Management | 1.00 | Fall, Spring, Summer |
| SO104 | Assertiveness Training | 2.00 | Fall, Spring, Summer |
| SO111 | Cultural Anthropology ▶ | 3.00 | Fall, Spring, Summer |
| SO113 | Cultural Diversity ▶ | 3.00 | Fall, Spring |
| SO122 | Introduction to Social Work ▶ | 3.00 | Fall, Spring |
| SO201 | Social Problems ▶ | 3.00 | Spring Prereq: SO100 Fundamentals of Sociology. |
| SP100 | Workplace Spanish | 2.00 | |
| SP101 | Elementary Spanish I ▶ | 5.00 | Fall, Spring, Summer |
| SP102 | Elementary Spanish II ▶ | 5.00 | Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II. |
| TH115 | Theatre Appreciation ▶ | 3.00 | Fall, Spring |
| TH116 | Acting I ▶ | 3.00 | Fall |
| TH118 | Stagecraft ▶ | 3.00 | Fall |
| TH119 | Stage Makeup | 3.00 | |
| TH121 | Acting II ▶ | 3.00 | Fall Prereq: TH116 Acting I with a grade of C or better. |
| TH122 | Voice and Diction ▶ | 3.00 | Fall |
| TH123 | Theatre Practicum I ▶ | 1.00 | Fall, Spring |
| TR100 | Technical Math | 3.00 | Fall, Spring |
| TR120 | Work Ethics | 2.00 | Fall, Spring |

| Machine Technology Communication Options | | | |
|------------------------------------------|-------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course ID | Course Title | Credit Hours | Notes |
| BU109 | Business Communications ▶ | 3.00 | Fall, Spring, Summer |
| EN100 | English Composition IB ▶ | 3.00 | Fall, Spring, Summer Prereq: EN098 Intro to College Writing with a grade of C or higher, or Accuplacer Next Generation Writing Score of 240 to 254, or HS GPA over 2.25, or ACT English Score of 17 to 19. |
| EN101 | English Composition IA ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above. |
| EN107 | Business English Grammar & Composition | 3.00 | Fall, Spring |
| ★ EN108 | Career and Technical Writing | 3.00 | Fall, Spring |

| Machine Technology Math Options | | | |
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| Course ID | Course Title | Credit Hours | Notes |
| BU108 | Business Mathematics | 3.00 | Fall, Spring, Summer |
| MA106 | College Algebra ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher. |
| MA117 | Contemporary Math ▶ | 3.00 | Fall, Spring, Summer |
| ★ TR100 | Technical Math | 3.00 | Fall, Spring |

| Machine Technology Social Science Options | | | |
|-------------------------------------------|-----------------------------|--------------|----------------------|
| Course ID | Course Title | Credit Hours | Notes |
| PS100 | General Psychology ▶ | 3.00 | Fall, Spring, Summer |
| PS100H | Honors General Psychology ▶ | 3.00 | Fall |
| PS101 | Human Relations | 3.00 | Fall, Spring, Summer |
| TR120 | Work Ethics | 2.00 | Fall, Spring |

| Machine Technology Technical Options | | | |
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| Course ID | Course Title | Credit Hours | Notes |
| AE100 | AC/DC Circuits | 4.00 | Fall, Spring |
| AE105 | Industrial Wiring | 3.00 | Spring |
| AE150 | Programmable Logic Controls (PLCs) | 3.00 | Fall, Spring Prereq: AE100 AC/DC Circuits. |
| AE155 | Electrical Maintenance | 3.00 | Fall, Spring Prereq: AE100 AC/DC Circuits. |
| AE200 | Variable Frequency Drives and Electric Motors | 3.00 | Fall, Spring Prereq: ME110 Fundamentals of Motor Controls. |
| AE202 | Actuator/Sensor Systems | 3.00 | Fall, Spring Prereq: AE155 Electrical Maintenance. |
| AE205 | Intermediate Programmable Logic Controllers | 3.00 | Fall, Spring Prereq: AE150 Programmable Logic Controllers. |
| AE250 | Distributed/Integrated Control Systems | 3.00 | Spring Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs. |
| AE252 | Control Systems Development | 3.00 | Fall, Spring Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs. |
| AE255 | Industrial Robotics | 3.00 | Fall, Spring Prereq: AE150 Programmable Logic Controllers. |
| BU100 | Small Business Accounting | 3.00 | Fall, Spring, Summer |
| BU105 | Introduction to Business ▶ | 3.00 | Fall, Spring, Summer |
| BU105H | Honors Introduction to Business ▶ | 3.00 | Fall |
| BU107 | Personal Finance ▶ | 3.00 | Fall, Spring, Summer |
| BU107H | Honors Personal Finance | 3.00 | |
| BU127 | Beginning Keyboarding | 3.00 | Fall, Spring |
| BU141 | Sales Management | 3.00 | Fall, Spring, Summer |
| BU151 | Introduction to Entrepreneurship | 1.00 | Fall, Spring |
| BU152 | Marketing Applications for Entrepreneurs | 1.00 | Fall, Spring |
| BU153 | Financial Management for Entrepreneurs | 1.00 | Fall, Spring |
| BU154 | Business Management for Entrepreneurs | 1.00 | Fall, Spring |
| BU156 | Developing the Business Plan | 1.00 | Fall, Spring |
| BU203 | Management ▶ | 3.00 | Fall, Spring, Summer |
| DR100 | Computer Aided Drafting I | 3.00 | Fall, Spring, Summer |
| DR101 | Technical Drafting | 3.00 | Fall, Spring |
| DR102 | Machine Drafting | 5.00 | Fall, Spring Prereq: DR100 Computer Aided Drafting I. |
| DR102H | Honors Machine Drafting | 5.00 | Prereq: DR100 Computer Aided Drafting I. |
| DR119 | Parametric Modeling I: Autodesk Inventor | 3.00 | Fall, Spring |
| DR211 | Computer Aided Drafting II | 3.00 | Fall, Spring Prereq: DR100 Computer Aided Drafting I. |

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| DR212 | Architectural Drafting I | 3.00 | Fall, Spring |
| DR213 | Architectural Drafting II | 3.00 | Spring Prereq: DR212 Architectural Drafting I. |
| DR215 | Civil Drafting | 3.00 | Fall, Spring Prereq: DR100 Computer Aided Drafting I. |
| DR219 | Parametric Modeling II: Autodesk Inventor | 3.00 | Fall Prereq: DR119 Parametric Modeling I: Autodesk Inventor. |
| DR220 | Computer Drafting Capstone | 3.00 | Fall, Spring Prereq: DR119 Parametric Modeling I: Autodesk Inventor, or Departmental Consent, and DR212 Architectural Drafting I. |
| IS103 | Microcomputer Literacy | 2.00 | Fall, Spring, Summer |
| IS104 | Microcomputer Applications ▶ | 3.00 | Fall, Spring, Summer |
| ME106 | Industrial Fluid Power | 3.00 | Fall, Spring |
| ME110 | Fundamentals of Motor Controls | 3.00 | Fall, Spring Prereq: AE100 AC/DC Circuits. |
| ME112 | Heating System Fundamentals | 3.00 | Fall, Spring |
| ME114 | Renewable Energy Technology | 3.00 | |
| ME116 | Commercial Refrigeration | 4.00 | Spring |
| ME117 | Commercial Heating and Air Conditioning | 4.00 | Spring Prereq: ME115 HVAC Fundamentals, and EE203 Instruments & Measurements, or ME116 Commercial Refrigeration. |
| ME118 | Renewable Energy Technology Systems Analysis | 4.00 | Prereq: ME114 Renewable Energy Technology, and AE155 Electrical Maintenance, and ME115 HVAC Fundamentals. |
| ME119 | Solar PV Fundamentals | 3.00 | Fall, Spring |
| ME122 | Solar PV Intermediate | 3.00 | Prereq: ME119 Solar PV Fundamentals. |
| ME124 | Renewable Energy Technology Maintenance | 4.00 | Prereq: ME114 Renewable Energy Technology, and AE155 Electrical Maintenance, and ME115 HVAC Fundamentals. |
| ME125 | Engineering Technology Internship | 3.00 | Fall |
| ME129 | Mechanical Maintenance Skills | 3.00 | Fall, Spring |
| ME131 | EPA 608 | 1.00 | Fall |
| ME132 | HVAC Load Calculations | 1.00 | Fall |
| ME133 | HVAC Duct Sizing | 1.00 | Fall |
| ME134 | HVAC Code Requirements | 1.00 | Fall |
| ME136 | Solar PV Advanced | 3.00 | Prereq: ME119 Solar PV Fundamentals, and ME141 Solar Battery Fundamentals, and ME122 Solar PV Intermediate. |
| ME140 | Low Pressure Boilers | 3.00 | Spring |
| ME141 | Solar Battery Fundamentals | 3.00 | Prereq: ME119 Solar PV Fundamentals. |
| ME142 | Solar Battery Intermediate | 3.00 | Prereq: ME119 Solar PV Fundamentals, and ME141 Solar Battery Fundamentals, and ME122 Solar PV Intermediate. |
| WE100 | Basic Welding | 3.00 | Fall, Spring |
| WE102 | Welding Blueprint Reading | 3.00 | Fall, Spring |
| WE104 | Shielded Metal Arc Welding | 3.00 | Fall |
| WE105 | Shielded Metal Arc Welding II | 3.00 | Fall, Spring Prereq: WE104 SMAW w/Grade of C or Higher, or Departmental Consent. |
| WE106 | Cutting Processes for Welding | 2.00 | Fall |
| WE110 | Gas Metal Arc Welding | 3.00 | Fall, Spring |
| WE111 | Gas Metal Arc Welding II | 3.00 | Fall, Spring Prereq: WE110 Gas Metal Arc Welding w/Grade of C or Higher. |
| WE112 | Gas Tungsten Arc Welding | 3.00 | Fall, Spring |
| WE113 | Gas Tungsten Arc Welding II | 3.00 | Spring Prereq: WE112 GTAW w/Grade of C or Higher. |
| WE115 | Welding Layout and Calculations | 2.00 | Fall, Spring |
| WE116 | Flux Cored Arc Welding | 2.00 | Spring Prereq: WE110 Gas Metal Arc Welding w/Grade of C or Higher, or Departmental Consent, and WE111 Gas Metal Arc Welding II w/Grade of C or Higher. |

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| WE117 | Welding Inspection and Qualification I | 2.00 | Fall, Spring |
| WE118 | Industrial Robotic Welding | 2.00 | Spring Prereq: WE110 Gas Metal Arc Welding, or Departmental Consent. |
| WE128 | Welding Metallurgy | 2.00 | Fall, Spring |