Table A: Applied Mechanical Technology (AMECHT-AAS) AY 2021-2022  
*Calendar Type:* Semester

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Fall 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAR-010 Freshman Seminar | 0 |  | 0 |  |  |  |
| NETS-101 Fundamentals of Engineering | 3 |  | 3 |  |  |  |
| NETS-110 Foundations of Materials | 2 |  | 2 |  |  | Co-req NETS-111 |
| NETS-111 Foundations of Materials Lab | 1 |  | 1 |  |  | Co-req NETS-110 |
| General Education - Elective: MATH-171 Calculus A | 3 | 3 |  |  |  |  |
| UWRT-100 Critical Reading and Writing | 3 |  | 3 |  |  |  |
| General Education - Elective: CHMG-131 General Chemistry for Engineers | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 15 | 6 | 9 | 0 |  |  |

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| **Term: Spring 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NETS-120 Manufacturing Processes | 3 |  | 3 |  |  |  |
| NETS-150 Mechanical Design & Fabrication | 3 |  | 3 |  |  | Co-req NETS-151 |
| NETS-151 Mechanical Design & Fabrication Lab | 1 |  | 1 |  |  | Co-req NETS-150 |
| General Education - Elective: MATH-172 Calculus B | 3 | 3 |  |  |  |  |
| General Education - Scientific Principles Perspective: PHYS-111 College Physics I | 4 | 4 |  |  |  |  |
| General Education - First Year Writing: UWRT-150 FYW: Writing Seminar (WI) | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 17 | 10 | 7 | 0 |  |  |

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| **Term: Summer 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| None |  |  |  |  |  |  |
| **Term Credit Total:** | 0 | 0 | 0 | 0 |  |  |

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| **Term: Fall 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| MCET-220 Principles of Statics | 3 |  | 3 |  |  | PHYS-111 |
| MCET-210 Foundations of Non-Metallic Materials | 2 |  | 2 |  |  | NETS-110/111, CHMG-131; co-req. MCET-211 |
| MCET-211 Characterization of Non-Metallic Materials Lab | 1 |  | 1 |  |  | NETS-110/111; co-req. MCET-210 |
| General Education - Elective: PHYS-112 College Physics II | 4 | 4 |  |  |  | PHYS-111 |
| General Education - Artistic Perspective | 3 | 3 |  |  |  |  |
| General Education - Ethical Perspective | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16 | 10 | 6 | 0 |  |  |

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| **Term: Spring 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| MCET-221 Strength of Materials | 4 |  | 4 |  |  | MCET-220 |
| EEET-215 Circuits and Electronics | 2 |  | 2 |  |  | MATH-111 or higher; co-req. EEET-216 |
| EEET-216 Circuits and Electronics Laboratory | 1 |  | 1 |  |  | Co-req. EEET-215 |
| MATH-211 Elements of Multivariable Calculus and Differential Equations | 3 |  | 3 |  |  | MATH-172 |
| General Education - Global Perspective | 3 | 3 |  |  |  |  |
| General Education - Social Perspective | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16 | 6 | 10 | 0 |  |  |

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|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **64** | **32** | **32** | **0** |

***Notes:***

1. All students pursuing an Associate’s degree are also required to complete one Wellness course.

Revision Log:

Table 1a: 4-4-13ssl; 7-15-13mg; 2-24-15mg; 5-6-15mg; 6-30-15ph; 4-17-17mg; 5-30-17fxk; 9-17-18fxk(Wellness added); 9-12-19djl

Table A (starting AY20-21)