**BACHELOR OF SCIENCE ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY**

*Course Schedule for students at the Altoona campus beginning in fall 2013 or later*

Fall Semester **FIRST YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EDSGN 100 | Intro to Engineering Design | 3 |  |  | **MATH 82** | **Technical Mathematics II (1)** | 3 |  |
| **MATH 81** | **Technical Mathematics I (1)** | 3 |  |  | **MCH T 111** | **Mech. for Tech: Statics(4)** | 3 |  |
| GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |  | **CMPET 117** | **Digital Electronics (4)** | 3 |  |
| EET 105 | Electrical Systems | 3 |  |  | **CMPET 120** | **Digital Electronics Lab (4)** | 1 |  |
| IET 101 | Manufacturing Materials & Processes | 3 |  |  | ENGL 15 | Rhetoric & Composition GWS | 3 |  |
|  |  |  |  |  | GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |
|  | # Credits | 15 |  |  |  | # Credits | 16 |  |

Fall Semester **SECOND YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MATH 83** | **Technical Calculus (1)** | 4 |  |  | **Math 210** | **Calc with Eng Tech Apps (1)** | 3 |  |
| EG T 114 | Spatial Analysis & CAD(4) | 2 |  |  | SCIENCE | Science (2) GN | 3/4 |  |
| **EE T 114** | **Electrical Circuits II (4)** | 4 |  |  | **EET 212W** | **Op Amp & IC Electronics (4, 5)** | 4 |  |
| **EE T 118** | **Electrical Circuits Lab II (4)** | 1 |  |  | IE T 215 | Production Design (4) | 2 |  |
| **EMET 222** | **Mechanics for Tech. (4)** | 4 |  |  | IE T 216 | Production Design Lab (4) | 2 |  |
| **Mch T 214** | **Str & Prop of Matls Lab (4)** | 1 |  |  | EET 275 | Programmable Logic Control (4) | 3 |  |
|  | #Credits | 16 |  |  |  | # Credits | 17/18 |  |

Fall Semester **THIRD YEAR** Spring Semester

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMET 230** | **Computerized I/O Systems (4)** | 3 |  |  | **EMET 330** | **Meas. Theory & Instr. (4)** | 3 |  |
| CMPET 211 | Embedded Processors & DSP (4) | 3 |  |  | EMET 325 | Electric Drives (4) | 3 |  |
| **MATH 211** | **Integral Calculus & Diff Eqns with Applications (1)** | 3 |  |  | EMET 326 | Mechanical Drives (4) | 3 |  |
| ENGL 202C | Technical Writing GWS | 3 |  |  | SCIENCE | Science (2) GN | 3/4 |  |
| GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |  | GHA | Health and Physical Activity | 3 |  |
| SCIENCE | Science (2) GN | 3/4 |  |  | CAS 100 | Effective Speech GWS | 3 |  |
|  | # Credits | 18/19 |  |  |  | # Credits | 18/19 |  |

Fall Semester **FOURTH YEAR** Spring Semester

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMET 405 | Fluid Mechanics & Thermo (3) | 3 |  |  | EMET 350 | Qual. Cntrl., Insp. & Design (4) | 3 |  |
| EMET 410 | Automated Control Systems (4) | 4 |  |  | EMET 440 | Electromech Proj Design | 3 |  |
|  | Technical Elective (6) | 3 |  |  | GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |
| IE T 333 | Engr Economics for Tech (4) | 2 |  |  | GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |
| GS/GH/GA | Soc. Sc., Human, Arts (3) | 3 |  |  |  | Technical Elective (6) | 3 |  |
| EMET 403 | Electromech Design Proj Prep | 1 |  |  |  |  |  |  |
|  | # Credits | 15 |  |  |  | # Credits | 15 |  |

C-Requirement Courses

All courses listed in bold type require a grade of C or higher for students in the EMET program.