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

*Course Schedule for students at the Altoona campus beginning in fall 2018 or later*

**Red – not completed | black - completed|blue-enrolled/taking next term**

**NAME**

Fall Semester **FIRST YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EDSGN 100 | Intro to Engineering Design | 3 |  |  | **MATH 82** | **Technical Mathematics II** | 3 |  |
| **MATH 81** | **Technical Mathematics I**  | 3 |  |  | **MET 111** | **Mech. for Tech: Statics** | 3 |  |
| PHIL 233Z | GH, Z | 3 |  |  | **CMPET 117** | **Digital Electronics**  | 3 |  |
| EET 105 | Electrical Systems  | 3 |  |  | **CMPET 120** | **Digital Electronics Lab**  | 1 |  |
| IET 101 | Manufacturing Materials & Processes  | 3 |  |  | ENGL 15 | Rhetoric & Composition GWS | 3 |  |
| EMET 100 | Computational Tools for Engineering Synthesis | 1 |  |  | GS/GH/GA | Soc. Sc., Human, Arts  | 3 |  |
|  | # Credits | 16 |  |  |  | # Credits | 16 |  |

Fall Semester **SECOND YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MATH 83** | **Technical Calculus**  | 4 |  |  | **Math 210** | **Calc with Eng Tech Apps**  | 3 |  |
| EG T 114 | Spatial Analysis & CAD | 2 |  |  | SCIENCE | Science (2) GN | 3/4 |  |
| **EE T 114** | **Electrical Circuits II**  | 4 |  |  | **EET 212W** | **Op Amp & IC Electronics**  | 4 |  |
| **EE T 118** | **Electrical Circuits Lab II**  | 1 |  |  | EMET 215 | Manufacturing Engineering | 3 |  |
| **EMET 222**  | **Applied Mechanics** | 3 |  |  | EET 275 | Programmable Logic Control  | 3 |  |
| STS 245Z | GS, IL, Z | 3 |  |  | EMET 225 | Dynamics for Technology | 2 |  |
|  | #Credits | 17 |  |  |  | # Credits | 18/19 |  |

Fall Semester **THIRD YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMET 230** | **Computerized I/O Systems**  | 3 |  |  | **EMET 330** | **Meas. Theory & Instr.**  | 3 |  |
| CMPET 211 | Embedded Processors & DSP  | 3 |  |  | EMET 325 | Electric Drives  | 3 |  |
| **MATH 211** | **Integral Calculus & Diff Eqns with Applications**  | 3 |  |  | EMET 326 | Mechanical Drives  | 3 |  |
| ENGL 202C | Technical Writing GWS | 3 |  |  | SCIENCE | Science (2) GN | 3/4 |  |
| GHA | Health and Physical Activity | 3 |  |  | CAS 100 | Effective Speech GWS | 3 |  |
| SCIENCE | Science (2) GN | 3/4 |  |  |  |  |  |  |
|  | # Credits | 18/19 |  |  |  | # Credits | 15/16 |  |

Fall Semester **FOURTH YEAR** Spring Semester

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMET 405 | Fluid Mechanics & Thermo  | 3 |  |  | EMET 350 | Qual. Cntrl., Insp. & Design  | 3 |  |
| EMET 410 | Automated Control Systems  | 4 |  |  | EMET 440 | Electromech Proj Design  | 3 |  |
|  | Technical Elective  | 3 |  |  | GS/GH/GA | Soc. Sc., Human, Arts  | 3 |  |
| IE T 333 | Engr Economics for Tech  | 2 |  |  | GS/GH/GA | Soc. Sc., Human, Arts  | 3 |  |
| GS/GH/GA | Soc. Sc., Human, Arts  | 3 |  |  |  | Technical Elective  | 3 |  |
| EMET 403 | Electromech Design Proj Prep  | 1 |  |  |  |  |  |  |
|  | # Credits | 16 |  |  |  | # Credits | 15 |  |

C-Requirement Courses

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