Department of Engineering & Engineering Technology
Minor and Certificates

Department of Engineering & Engineering Technology (DEET) minors and certificates are open to ALL majors at UW Oshkosh. Courses with a * indicate that prerequisites may be waived for non-majors. Please contact the department if you have questions about prerequisites for approval to enroll.

**ENVIRONMENTAL ENGINEERING TECH MINOR**

**Fundamentals Group (12cr)**
- EGRT 101 Fund of Engineering Technology (2cr)
- EGRT 118 Fluid Control (3cr)
- EGRT 201 Intro. to Air Quality (2cr)
- EGRT 202 Intro. to Water & Wastewater (3cr)
- EGRT 203 Intro. to Solid Waste (2cr)

**One of the following (3cr)**
- EGRT 301 Advanced Air Quality (3cr)
- EGRT 302 Advanced Water & Wastewater (3cr)
- EGRT 303 Advanced Solid Waste (3cr)

**Two of the following (6cr)**
- *EGRT 371 Water Resources Engineering (3cr)
- *EGRT 375 Renewable Energy (3cr)
- *EGRT 377 Industrial Safety and Hygiene (3cr)
- *EGRT 381 Environmental Data Analysis (3cr)

21 Total Credits

**CERTIFICATE IN ENVIRONMENTAL MONITORING**

**Two of the following (4-5cr)**
- EGRT 201 Intro. to Air Quality (2cr)
- EGRT 202 Intro. to Water & Wastewater (3cr)
- EGRT 203 Intro. to Solid Waste (2cr)

**Both of the following (4-6cr)**
- EGRT 374 Environmental Field Analysis (3cr)
- EGRT 397 Environmental Lab Operations (1-3cr)

9-11 Total Credits (9 credits minimum)

**CERTIFICATE IN AUTOMATION**

**Required 14 credits**
- EGRT 130 Basic Electrical Circuits I (4cr)
- EGRT 240 Logic & Control Devices (3cr)
- *EGRT 260 Automation Controllers (3cr)
- *EGRT 390 Mechatronics (4cr)

**CERTIFICATE IN ELECTRONICS**

**Required 14 credits**
- EGRT 130 Basic Electrical Circuits I (4cr)
- EGRT 131 Basic Electrical Circuits II (4cr)
- *EGRT 232 Semiconductor Devices (3cr)
- *EGRT 333 Linear Circuits (3cr)

**CERTIFICATE IN RENEWABLE ENERGY**

**Required 10-12 credits**
- *EGRT 330 Thermodynamics OR EGRT 263 Engineering Thermodynamics (3cr)

**PLUS 7-10 Credits**
- EGRT 360 Project Management (3cr)
- *EGRT 375 Renewable Energy (3cr)
- EGRT: Capstone (1-3cr)

10-12 Total Credits

**CERTIFICATE IN ECONOMIC COMMUNICATION**

**Required 12 credits**
- EGRT 257 Internet of Things (3cr)
- *EGRT 325 Signals & Systems (3cr)
- *EGRT 342 Measures, Control & Data Acq (3cr)
- *EGRT 350 Data Comm & Protocols (3cr)