

Environmental Engineering program electives - Fall 2024 Curriculum

| Elective Block | Course | Number | Course Name | Hrs |
|---|------------|--------|--|-----|
| Earth Science Restricted Elective | AGRON | 205 | Soils | 3 |
| | AGRON | 335 | Environmental Quality | 3 |
| | GEOG | 121 | Intro Physical Geography: Earth Systems | 3 |
| | GEOG | 445 | Biogeography | 3 |
| | GEOL | 115 | Environmental Geology | 3 |
| Environmental Engineering Restricted Electives (6 hrs total) | BAE | 651 | Air Pollution Engineering | 3 |
| | BAE | 665 | Ecological Engineering Design | 3 |
| | CE | 565 | Water & Wastewater Engineering | 3 |
| | CE | 625 | Principles of Geoenvironmental Engineering | 3 |
| | BAE | 663 | Environmental & Ecological Risk Assessment | 3 |
| Technical Electives | AGRON | 605 | Soil & Environmental Chemistry | 3 |
| | AGRON | 645 | Soil Microbiology | 3 |
| | AGRON | 646 | Soil Microbiology Lab | 1 |
| | AGRON | 746 | Environmental Soil Physics | 3 |
| | ATM | 661 | Watershed Assessment & Management | 3 |
| | BAE | 582 | Natural Resources/Environmental Sciences Project | 3 |
| | BAE | 663 | Environmental & Ecological Risk Assessment | 3 |
| | BAE | 664 | Green Infrastructure Design | 3 |
| | BAE | 665 | Ecological Engineering Design | 3 |
| | BAE | 669 | Watershed Modeling | 3 |
| | BAE/CE/CHE | 768 | Geoenvironmental Engineering Design | 3 |
| | BIOL | 255 | General Microbiology | 4 |
| | BIOL | 529 | Ecology | 3 |
| | BIOL | 612 | Fresh Water Ecology | 3 |
| | BIOL | 687 | Microbial Ecology | 3 |
| | BIOCH | 521 | General Biochemistry | 3 |
| | CE | 565 | Water & Wastewater Engineering | 3 |
| | CE | 625 | Principles of Geoenvironmental Engineering | 3 |
| | CE | 654 | Design of Groundwater Flow Systems | 3 |
| | CE | 663 | Unit Ops & Processes in Environmental Engg | 3 |
| | CE | 725 | Seepage in Permeable Materials | 3 |
| | CE | 751 | Hydraulics of Open Channels | 3 |
| | CE | 752 | Advanced Hydrology | 3 |
| | CE | 762 | Water Treatment Processes | 3 |
| | CE | 766 | Wastewater Engineering: Biological Processes | 3 |
| | CHE | 521 | Thermodynamics II | 3 |
| | CHE | 531 | Transport Phenomena II | 3 |
| | CHE | 561 | Chemical Process Dynamics & Control | 3 |
| | CHE | 565 | Health & Safety in Chemical Engineering | 3 |
| | CHE | 650 | Hazardous Waste Engineering Seminar | 1 |
| | CHE | 670 | Sustainability Seminar | 1 |
| | CHE | 682 | Surface Phenomena | 3 |
| | CHE | 750 | Air Quality Seminar | 1 |

| Elective Block | Course | Number | Course Name | Hrs |
|----------------------------|--------|---------|---|--------|
| Technical Electives | ECE | 581 | Energy Conversion I | 3 |
| | ECE | 582 | Wind Energy | 3 |
| | ECE | 681 | Wind & Solar Energy | 3 |
| | CHM | 371-700 | | varies |
| | GEOL | 711 | Water Resources Geochemistry | 3 |
| | IMSE | 610 | Occupational Safety Engineering | 3 |
| | IMSE | 720 | Industrial Ergonomics | 3 |
| | IMSE | 721 | Work Environments | 3 |
| | ME | 622 | Indoor Environmental Engineering | 3 |
| | ME | 720 | Intermediate Fluid Mechanics | 3 |
| | ME | 721 | Thermal Systems Design | 3 |
| | ME | 722 | Human Thermal Engineering | 3 |
| | NE | 495 | Principles of Radiation Detection | 3 |
| | NE | 612 | Radiation Protection & Shielding | 3 |
| | NE | 648 | Nuclear Reactor Laboratory | 3 |
| | NE | 690 | Radiation Protection & Shielding | 3 |
| | NE | 737 | Intermediate Radiation Measurement Applications | 3 |
| | NE | 761 | Radiation Measurement Systems | 3 |