BSEVE Elective Clusters

Purpose: The following clusters of Tufts courses are designed to help BSEVE majors think about how best to use elective courses to meet specific learning objectives. These clusters are optional and can be mixed as needed. Also, this list is not exhaustive; many other clusters can be envisioned. The clusters were developed by the BSEVE program review board and are updated regularly.

Environmental/Public Health
CEE 54 – Fundamental Epidemiology
CEE 137 – Public Health
CEE 154 – Principles of Epidemiology
CEE 158 – Occupational and Environmental Health
CEE 167 – Environmental Toxicology
CEE 168 – Exposure Assessment
CEE 173 – Health Effects and Risk Assessment
CEE 185 – Legal Issues of Engineering

Modeling/Computer Technology
CEE 103 – Water Quality Modeling
CEE 187 – Geographical Information Systems (GIS)
CEE 194A – Special Topics: Intro to Remote Sensing
Comp 11 – Introduction Computer Science
Comp 15 – Data Structures
ES 55 – Numerical Methods

Policy/Economics
CEE 70 – Intro to Hazardous Material Management
CEE 185 – Legal Issues of Engineering
EC 5 – Principles of Economics
EC 8 – Principles of Economics with Environmental Applications
EC 30 – Environmental Economics
ES 25 – Environment and Technology

Remediation
CEE 70 – Intro to Hazardous Material Management
CEE 114 – Field Methods in Hydrogeology
CEE 138 – Hazardous Waste Treatment Technology
CEE 139 - Bioremediation
CEE 143 – Site Remediation
CEE 172 – Fate and Transport of Environmental Contaminants
EOS 288 Groundwater Modeling

Water Resources
CEE 112 – Hydrology/Water Resource
CEE 114 – Field Methods in Hydrogeology
CEE 133 – Wastewater Plant Design
CEE 134 – Water Chemistry
EOS 288 Groundwater Modeling

Engineering Management Minor
EM 51 – Engineering Management
EM 54 – Engineering Leadership
EM 153 – Management Innovation
(EM52 required) – Tech and Managerial Communication
(ES 56 required) – Probability and Statistics
CEE 185 – Legal Issues of Engineering