

Sustainability Certificates

Fall 2024

Certificate in Sustainable Energy Systems		16
APEN 370	Environmental Engineering Tech P: CHEM 211 <i>Fall only</i>	3
APEN 492	Energy Mgmt & Sustainability P/C: GEOL 300 & ECON 201 <i>or</i> IME 255 <i>Fall only</i>	3
ECE 596 <i>or</i> APEN 510	Renewable Energy Engineering P: APEN 320 <i>or</i> ECE 282 <i>Spring only</i>	3
GEOL 300	Energy, Resources and Environ	3
ECE 282 <i>or</i> APEN 320/L	Circuits I with lab P/C: MATH 243	4

Certificate in Sustainable Water Resources		15
APEN 323	Introduction to Fluids P: AE 223 <i>or</i> APEN 312 <i>Fall only</i>	3
APEN 370	Environmental Engineering Tech P: CHEM 211 <i>Fall only</i>	3
APEN 600	Water and Wastewater Treatment P: APEN 323 & APEN 370 <i>Fall only</i>	3
APEN 610	Hydraulics and Hydrology P: APEN 323, <i>or</i> dept consent <i>Spring only</i>	3
BIOL 370	Intro. Environmental Science	3

NOTES:

Certificates require that a grade point average of at least 2.0 must be maintained for all courses in the certificate and no class has a grade below C