

Environmental Engineering Technology Matrix

April 2019 and Prior

1. Common Core (23.0 credits required)			
EENG 7200	Principles of Sustainability course outline	3.0	
EENG 7211	Chemistry & Organic Chemistry course outline	3.0	
EENG 7213	Environmental Methods & Techniques course outline	3.0	
EENG 7215	Applied Hydraulics course outline	3.0	
EENG 7216	Soil Mechanics & Hydrogeology course outline	3.0	
EENG 7220	Industrial Ecology course outline	2.5	
EENG 7221	Environmental Toxicology course outline	2.5	
EENG 7717	Hydrology for EET course outline	1.5	
EENG 7719	Survey Techniques for EET course outline	1.5	
Students will be required to complete all common core courses prior to entering into their choice of specialty courses. Some exemptions may be possible, based on transfer credits from prior studies, and will require departmental approval.			
2. Management Courses (12.0 credits)			Credits
Required courses: (4.5 credits)			
BUSA 7250	Management Skills and Applications course outline	3.0	
EENG 8780	Environmental Law 1 course outline	1.5	
Complete 7.5 credits from the following list of electives:			
EENG 8281	Risk Assessment & Management course outline	2.5	
EENG 8282	Sustainability Management Systems course outline	2.5	
EENG 8285	Environmental Decision-Making course outline	2.5	
EENG 8286	Environmental Impact Assessment course outline	2.5	

EENG 8287	Project Management course outline	2.5
3. Specialty Courses (30.0 credits)		
		Credits
Required courses: (10.0 credits)		
EENG 7241	Contaminant Hydrogeology(Hydrosphere Specialty) course outline	2.5
EENG 8220	Foundations of Sustainable Energy(Energy Specialty) course outline	2.5
EENG 8270	Contaminated Site Investigation(Lithosphere Specialty) course outline	2.5
EENG 8290	Air Quality Management(Atmosphere Specialty) course outline	2.5
Complete 20.0 credits from the following list of electives:		
<i>Hydrosphere</i>		
EENG 7242	Groundwater Modeling course outline	2.5
EENG 8250	Municipal Wastewater Treatment course outline	2.5
EENG 8253	Industrial Wastewater Treatment course outline	2.5
EENG 8255	Drinking Water Treatment course outline	2.5
EENG 8256	Integrated Water Resource Management course outline	2.5
<i>Lithosphere</i>		
EENG 8201	Terrain & Stream Channel Assessment course outline	2.5
EENG 8202	Forest Road Construction & Rehabilitation course outline	2.5
EENG 8211	Mining, Oil & Gas Development & Restoration course outline	2.5
EENG 8260	Integrated Solid Waste Management course outline	2.5
EENG 8262	Landfill Design & Operation course outline	2.5
EENG 8268	Residuals Management & Treatment course outline	2.5
EENG 8272	Contaminated Site Remediation course outline	2.5
EENG 8273	Sampling Methods for Contaminated Sites course outline	2.5
<i>Atmosphere</i>		
EENG 8291	Industrial Air Pollution Control Techniques course outline	2.5
EENG 8292	Air Quality Monitoring & Testing course outline	2.5

EENG 8293	Climate, Energy and Carbon Management course outline	2.5
EENG 8294	Applied Meteorology & Climatology course outline	2.5
EENG 8295	Air Quality Dispersion Modeling course outline	2.5
Energy		
EENG 8221	Introduction to Green Buildings & Infrastructure course outline	2.5
EENG 8222	Run of River IPP course outline	2.5
EENG 8223	Solar & Wind Power course outline	2.5
EENG 8224	Optimizing & Specifying Geo-Exchange Systems course outline	2.5
EENG 8226	Thermal Energy Systems course outline	2.5
4. Graduating Project (13.0 credits required)		Credits
All students seeking to graduate from the program must successfully complete the applied research project. The objective of this project is to allow students to apply specialty knowledge in a real-life situation in conjunction with an industry sponsor. The project assignment should contain some elements which are deemed to be innovative, experimental or exploratory in nature. The student will be responsible for securing an industry sponsor with expertise in the project area.		
EENG 8300	Applied Research Skills course outline	3.0
EENG 8303	Applied Research Project course outline	10.0
5. Liberal Studies (12.0 credits)		Credits
Required Courses: (6.0 credits)		
LIBS 7001	Critical Reading and Writing course outline	3.0
LIBS 7002	Applied Ethics course outline	3.0
Elective Courses: (6.0 credits)		
All students will be required to achieve these credits in accordance with the BCIT policy on Liberal Studies course requirements .		
Total Credits:		90.0