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D	Developed
A	Applied

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1A	ENVE 100	Environmental and Geological Engineering Concepts							I				I	I	I				I		I	I			I				I			I		I	I					I	I									
	ENVE 115	Linear Algebra		I					I						I						I																												
	CIVE 104	Mechanics 1			I	I			I	I	I										I				I															I							I		
	MATH 116	Calculus 1 for Engineering		I					I						I						I																												
	CHE 102	Chemistry for Engineers			I	I									I							I																											
	ENGL 191	Communication in the Engineering Profession																										I	I	I																		
	COOP 1																															I			I													
	PD 20	Engineering Workplace Skills 1																										I	I	I		I	I						I							I	I	I
1B	ENVE 121	Computational Methods		D		I			I	I	I			I							D	D	I																									
	ENVE 123	Electrical Circuits and Instrumentation		I		I	I		I	I	I		I								I		I																									
	ENVE 153	Earth Engineering			I	I	I		I	I	I			I	I		I	I				I	I		I				I	I													I	I			I	
	CIVE 105	Mechanics 2			I	D			I												I		I																									
	MATH 118	Calculus 2 for Engineering		D					I						I																																	
	COOP 2																																															
	PD 21	Engineering Workplace Skills 2															I	I	I									I		I									I				I			I	I	
2A	ENVE 223	Differential Equations and Balance Laws		D					I	I					D																																	
	ENVE 224	Probability & Statistics		D		I			D	I	I		D		D						I		I																							I		I
	ENVE 275	Environmental Chemistry			I	I	I		D	D	I				I								I		I	I			I	I																I		
	ENVE 280	Fluid Mechanics		D	D	D	D		D	D	D		I	I	D		I	I	I		I	I	I		D	D			D																			
	ENVE 298	Seminar																																														
	ERS 215	Environmental and Sustainability Assessment 1									I						I																															
	COOP 3																																															
	PD E1	Engineering Workplace Skills Elective 1																																														
2B	ENVE 225	Environmental Modelling		D		D	I		D	D	D				D						D		D																									
	ENVE 277	Air Quality Engineering				D	D																										D			D												
	ENVE 279	Energy and the Environment			D	D	D		D	D	I			I			I	I							I										I	I												
	ENVE 382	Hydrology and Open Channel Flow			D	D	D		D	D	I		I	D	I						D	I	I		D										I											D		
	ENVE 299	Seminar																																														
	BIOL 240	Fundamentals of Microbiology			D	D	I		I	I				I	D							I																							D	D	D
	COOP 4																																															
	WKRPT 200	Work-term Report																											I																			
	PD E2	Engineering Workplace Skills Elective 2																																														
3A	ENVE 330	Lab Analysis and Field Sampling Techniques		D	D	D			A	D	D		D	A	D		D	D	D		D	A	A		D	D		D					I		D							I		D	D	D
	ENVE 375	Physico-Chemical Processes		A	D	D	D		D	D	D			D	D				D		I								I	D		I			I													
	ENVE 392	Economics and Life Cycle Cost Analysis				D	I		A	I	A		D		A						A	A	A									D			I	D		D	D	I			D					
	ENVE 398	Seminar																																														
	GEOE 353	Geotechnical Engineering 1			D	D	I			I	I			D	I						D	D	I		D	D																						
	EARTH 458	Physical Hydrogeology		A	D				D		D										I		I													I			D	D								
	EARTH 458L	Field Methods in Hydrogeology			D	D				A				D	D						A	A	A		D	D			A	D					D	D												
	COOP 5																																															
	WKRPT 300	Work-term Report																											D																			
	PD E3	Engineering Workplace Skills Elective 3																																														
3B	ENVE 335	Decision Making for Environmental Engineers				D	A		D	I	I		A	I	I		D	D	D			I	I																	D		D	A					
	ENVE 376	Biological Processes				A	D				A			A			A		A																													
	ENVE 383	Advanced Hydrology and Hydraulics				D	A		A	A															A	A																						
	ENVE 391	Law and Ethics for Environmental and Geological Engineers																												D		A	A					A	A	A						D	D
	ENVE 399	Seminar																																														
	TE 1	Technical Elective 1																																														
	COOP 6																																															

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4A	ENVE 400	Environmental Engineering Design Project 1							A	A	A		A	A	A		A	A	A						A	A		A	A			A	A		A							A	A		A	A	A
	ENVE 498	Seminar																																														
	TE 2	Technical Elective 2																																														
	TE 3	Technical Elective 3																																														
	TE 4	Technical Elective 4																																														
	CSE 1	Complementry Studies Elective 1																																														
	WKRPT 400	Work-term Report																													A																	
4B	ENVE 401	Environmental Engineering Design Project 2									A		A	A	A		A	A	A		A	A	A		A	A		A	A	A					A	A					A	A		A	A	A
	TE 5	Technical Elective 5																																														
	TE 6	Technical Elective 6																																														
	TE 7	Technical Elective 7																																														
	CSE 2	Complementry Studies Elective 2																																														

Technical Electives

List A - Engineering Design Intensive Technical Electives

F,W	CHE 361	Bioprocess Engineering																																														
F	CHE 514	Fundamentals of Petroleum Production																																														
F	CHE 516	Energy Systems Engineering																																														
F	CHE 571	Industrial Ecology																																														
W	CHE 572	Air Pollution Control																																														
W	CHE 574	Industrial Wastewater Pollution Control																																														
F	CIVE 241	Transport Principles and Applications					I		D										I											D							I											
W	CIVE 341	Transportation Engineering Applications								A													A								A						D									D		
F,W,S	CIVE 495	Design Intensive Special Topics in Civil Engineering				A	A			A			A	A	A				A		A		A							A				A		A	A										A
W	EARTH 438	Engineering Geology				A							D	A	A							A						D		A			D	D		D	D						D					
F,W,S	ENVE 495	Design Intensive Special Topics in Environmental Engineering																																														
W	ENVE 577	Engineering for Solid Waste Management																																														
W	ENVE 583	Design of Urban Water Systems																																														
F	GEOE 354	Geotechnical Engineering 2			I		A		D	I	I			D	I			D			D	D	I		A	A						D	D		D												
W	GEOE 554	Geotechnical Engineering 3				A			A	A	A		A	A	A		A		A		A	A	A							A			A	A		A	A					A	A		A	A	A
W	ME 452	HVAC Load Analysis and Design Fundamentals					A			D	D			D	D		D	D	D		A		A					A					D	A		D	A		D	D	D					A		
W	ME 571	Air Pollution																																														
W	SYDE 532	Introduction to Complex Systems																																														
F	SYDE 533	Conflict Resolution																																														
F	SYDE 575	Image Processing																																														

List B - Technical Electives

F,S	BIOL 354	Environmental Toxicology 1																																														
F	BIOL 364	Mathematical Modelling in Biology																																														
F	BIOL 447	Environmental Microbiology																																														
F	BIOL 455	Ecological Risk Assessment and Management																																														
F	BIOL 462	Applied Wetland Science																																														
F	BIOL 470	Methods of Aquatic Ecology																																														
W,S	CHEM 237	Introductory Biochemistry																																														
F,W	CHEM 262	Organic Chemistry for Engineering			D	D				D																																			D	D		
W	CIVE 422	Finite Element Analysis		A	A	A	A		A	A												A	A			A			A	A																	
W	CIVE 440	Transit Planning and Operations																																														
W	CIVE 507	Building Science and Technology					A		A	A	A			A					A		A					A								A													
W,S	EARTH 221	Introductory Geochemistry																																														
F	EARTH 342	Geomorphology and GIS Applications																																														
F	EARTH 421	Advanced Geochemistry																																														

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W	EARTH 439	Flow and Transport Through Fractured Rocks																																															
F	EARTH 440	Quaternary Geology																																															
F	EARTH 444	Applied Wetland Science																																															
W	EARTH 456	Numerical Methods in Hydrogeology																																															
W	EARTH 459	Chemical Hydrogeology																																															
F,W,S	ENVE 497	Special Topics in Environmental Engineering																																															
W	ENVE 573	Contaminant Transport																																															
W,S	GEOG 209	Hydroclimatology																																															
F	GEOG 305	Fluvial Geomorphology																																															
F	GEOG 371	Advanced Remote Sensing Techniques																																															
W,S	GEOG 381	Advanced Geographic Information Systems																																															
W	GEOG 409	Energy Balance Climatology																																															
W	GEOG 471	Remote Sensing Project																																															
W,S	ME 354	Thermodynamics 2			D	D				D								I					D									I																	
F,S	ME 459	Energy Conversion																																															
F,S	ME 559	Finite Element Methods																																															
F	SYDE 411	Optimization and Numerical Methods																																															
W	SYDE 531	Design Optimization Under Probabilistic Uncertainty																																															