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D	Developed	
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1A	CIVE 100	Civil Engineering Concepts											I						I														I	I							I	I						
	CIVE 104	Mechanics 1			I																I				I											I		I		I					I		
	CIVE 115	Linear Algebra		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																	
1B	CIVE 105	Mechanics 2			I	D															I		I																								
	CIVE 121	Computational Methods		D		I								I								D																									
	CIVE 123	Electrical Circuits and Instrumentation				I				I	I		I										I																								
	CIVE 153	Earth Engineering												I			I	I																							I	I			I		
	CIVE 199	Seminar																																													
	MATH 118	Calculus 2 for Engineering		D					I						I																																
	COOP 1																																														
	PD 20	Engineering Workplace Skills I: Developing Reasoned Conclusions																																													
2A	CIVE 204	Solid Mechanics 1				D											D		D		D				D																						
	CIVE 221	Advanced Calculus		D					I	I																																					
	CIVE 224	Probability & Statistics		D		I			D				D																																		I
	CIVE 241	Transport Principles and Applications					I		D										I										D								I										
	CIVE 265	Structure and Properties of Materials												D	D								D			I											I										
	CIVE 298	Seminar																																													
	COOP 2																																														
	PD 21	Engineering Workplace Skills II: Developing Effective Plans																																													
2B	CIVE 205	Solid Mechanics 2				D			D	D					D			D																													
	CIVE 222	Differential Equations		D					I	I	I				D																																
	CIVE 230	Engineering and Sustainable Development																													D			D				D				D				D		
	CIVE 280	Fluid Mechanics			D					D	D				D														D																		
	CIVE 299	Seminar																																													
	CIVE 392	Economics and Life Cycle Cost Analysis											D																				D						D	D				D			
	COOP 3																																														
	PD E1	Enginnering Workplace Skills Elective 1 (PD 3,4,5,6,7)																																													
3A	CIVE 303	Structural Analysis		A			D		D	D	D																																				
	CIVE 332	Civil Systems and Project Management				D	A						A						D																								D				
	CIVE 341	Transportation Engineering Applications								A													A								A						D								D		
	CIVE 353	Geotechnical Engineering 1			A	D								D								D				D																					
	CIVE 382	Hydrology and Open Channel Flow							A	A															A												I										D
	CIVE 398	Seminar																																													
	CSE 1	Complementary Studies Elective 1																																													
	WKRPT 200	Work-term Report																																													
	COOP 4																																														
	PD E2	Enginnering Workplace Skills Elective 2 (PD 3,4,5,6,7)																																													
3B	CIVE 310	Introduction to Structural Design				A				D	D											A												D													
	CIVE 375	Environmental Engineering Principles							A		A			A	A													D								A										
	CIVE 399	Seminar																																													
	TE 1	Technical Elective 1																																													
	TE 2	Technical Elective 2																																													
	CSE 2 or TE 3	Complementary Studies Elective 2 or Technical Elective 3																																													
	WKRPT 300	Work-term Report																																													
	COOP 5																																														
	PD E3	Enginnering Workplace Skills Elective 3 (PD 3,4,5,6,7)																																													

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4A	CIVE 400	Civil Engineering Design Project 1															A	A								A		A									A									A	A	
	CIVE 491	Engineering Law and Ethics																														A	A					A	A	A								
	CIVE 498	Seminar																																														
	TE 3 or CSE 2	Technical Elective 3 or Complementary Studies Elective 2																																														
	TE 4	Technical Elective 4																																														
	CSE 3 or TE 5	Complementary Studies Elective 3 or Technical Elective 5																																														
	WKRPT 400	Work-term Report																																														
	COOP 6																																															
4B	CIVE 401	Civil Engineering Design Project 2																	A		A								A													A	A				A
	CIVE 499	Seminar																																														
	CSE 3 or TE 5	Complementary Studies Elective 3 or Technical Elective 5																																														
	TE 6	Technical Elective 6																																														
	TE 7	Technical Elective 7																																														
	TE 8	Technical Elective 8																																														

Technical Electives

List A - Engineering Design Intensive Technical Electives

F	CIVE 343	Traffic Simulation Modelling and Applications																																														
F	CIVE 354	Geotechnical Engineering 2					A							D				D							A	A																						
S	CIVE 413	Structural Steel Design					A				A												A							A			A															
S	CIVE 414	Structural Concrete Design					A				A															A							A													A		
W	CIVE 415	Structural System Design					A										A													A			A												A		
W	CIVE 460	Engineering Biomechanics				D									A													A	A					A				D	D								
F,W,S	CIVE 495	Design Intensive Special Topics in Civil Engineering				A			A				A						A														A														
W	CIVE 512	Rehabilitation of Structures					A											A												A			A												A		
W	CIVE 542	Pavement Structural Design																																														
W	CIVE 554	Geotechnical Engineering 3									A		A				A		A																									A				
W	CIVE 583	Design of Urban Water Systems																																														
S	CIVE 596	Construction Engineering							A										A											A													A	A				
W	EARTH 438	Engineering Geology												A														D					D				D						D					
W	ENVE 577	Engineering for Solid Waste Management																																														
F	SYDE 533	Conflict Resolution																																														

List B - Technical Electives

F	CIVE 306	Mechanics of Solids 3																																														
W	CIVE 422	Finite Element Analysis																																														
W	CIVE 440	Transit Planning and Operations																																														
S	CIVE 484	Physical Infrastructure Planning																							A	A		A	A			A															
F,W,S	CIVE 497	Special Topics in Civil Engineering																																														
S	CIVE 505	Structural Dynamics					A			A													A														A								A		
W	CIVE 507	Building Science and Technology						A	A	A											A												A														
F	EARTH 444	Applied Wetland Science																																														
F,S	EARTH 458	Physical Hydrogeology		A	D			D		D																														D								
F	ENVE 277	Air Quality Engineering				D	D																										D				D										
F	ENVE 279	Energy and the Environment			D	D				D																										I	I										
W	ENVE 376	Biological Processes				A					A			A			A		A																												
W	ENVE 383	Advanced Hydrology and Hydraulics					A		A	A															A	A																					
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																																														
F,S	ME 559	Finite Element Methods																																														
W	PLAN 416	Modelling the City																																														
W	PLAN 477	Freight Planning and Policy																																														

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List C - Natural Science Technical Electives																																															
F,W	**BIOL 130**	**Introductory Cell Biology**																																													
F	**BIOL 150**	**Organismal and Evolutionary Ecology**																																													
F	**BIOL 240**	**Fundamentals of Microbiology**			D										D																													D	D	D
F,W,S	**BIOL 273**	**Principles of Human Physiology 1**																																													
W,S	**CHE 161**	**Engineering Biology**				I																											I		I									I	I	
F	**CHEM 209**	**Introductory Spectroscopy and Structure**																																													
F,W	**CHEM 262**	**Organic Chemistry for Engineering**			D	D				D																																		D	D	
W,S	**EARTH 221**	**Introductory Geochemistry**																																													
W	**EARTH 270**	**Disasters and Natural Hazards**																																													
W	**EARTH 281**	**Geological Impacts on Human Health**																																													
F,W,S	**ENVS 200**	**Field Ecology**																																													
W	**KIN 100**	**Regional Human Anatomy**			I																							I	I	I																I
W	**KIN 100L**	**Regional Human Anatomy Laboratory**																																													
W	**SCI 207**	**Physics, the Universe, and Everything**																																													
F,W,S	**SCI 238**	**Introductory Astronomy**																																													