

Bachelor of Engineering in Resource Engineering Mining Engineering Option Program Requirements

Diploma in Engineering (69 credit hours)		Upper Division Core Requirements (54 credit hours)		Mining Engineering Option (21 credit hours)
EGNE 1206 Technical Communications	MATH 1210 Introductory Calculus I	ERTH 2301 Mineralogy	EGNE 3100 Intro to Resource Industry	EGNE 3220 Surface Mining Methods
EGNE 1210 Engineering Design 1: Graphics	MATH 1211 Introductory Calculus II	ERTH 2400 Field Methods	EGNE 3110 Mineral Processing & Water Management	EGNE 3230 Underground Mining Methods
EGNE 1203 Engineering Mechanics 1: Statics	PHYS 1210 University Physics I	ERTH 3305 Geomatics	EGNE 3420 EGNE III: Equipment and Services Design	EGNE 3410 Focused Mining Studies
EGNE 1204 Computer Methods for Engineers	PHYS 1211 University Physics II	ENVS 2400 Applications in ENVS	EGNE 4110 Material Science	EGNE 4230 Soil & Rock Mechanics
EGNE 2302 Engineering Economics	CHEM 1210 General Chemistry I	EGNE 2304 Mechanics of Materials	EGNE 4120 Technology in the Resource Sector	ENVS 4480 Environmental Contaminants
EGNE 2303 Thermodynamics	CHEM 1213 General Chemistry II for Engineering	ENVS 3410 Environmental Impact Assessment	EGNE 4150 Industrial Environmental Risk Management	ERTH 3413 Structural Geology
EGNE 2307 Engineering Design II	ERTH 1212 Mining & Society	3xxx-level or above*	EGNE 4160 Life-Cycle Cost Analysis	ERTH 4441 Mineral Resources
EGNE 2308 Electric Circuits I	MATH 2301 Applied Linear Algebra	3xxx-level or above*	EGNE 4170 Resource Project Management: Approvals + Indigenous Engagement	
EGNE 2309 Probability & Statistics	MATH 2311 Intermediate Calculus		EGNE 4410 EGNE Design IV: Capstone Project I	
EGNE 2306 Fluid Dynamics	MATH 2303 Differential Equations I		EGNE 4411 EGNE Design IV: Capstone Project II	
HIST 1301 Intro History of Science & Tech	ERTH 1204 Geology for Engineers			
ENVS 1200 Environmental Sustainability				

Light Gray = Year 1 Courses

Medium Gray = Year 2 Courses

Dark Gray = Year 3 Courses

Note: Year 4 and 5 courses will be dependent on Co-op



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*3000-Level Elective List			
CHEM 2100	ERTH 2326	ERTH 3386	Any 3000 or 4000-level EGNE/Engineering -approved course
ENVS 3450	ERTH 2373	ERTH 3454	
ENVS 3460	ERTH 3306	ERTH 4301	
ENVS 4440	ERTH 3340	ERTH 4496	
ENVS 4450			

Every effort is made to ensure that the information summarized here is accurate. Students are reminded that the University Academic Calendar is the official source of Program information.

Diploma of Engineering Tentative Course Schedule				
<i>** subject to change; official schedule available on Banner</i>				
Course	Semester			
	Fall (Sept-Dec)	Winter (Jan-Apr)	Summer I (May-June)	Summer II (July-Aug)
EGNE 1206	**			
EGNE 1210	**		**	
EGNE 1203		**	**	
EGNE 1204		**	**	
MATH 1210	**	**	**	
MATH 1211	**	**	**	**
PHYS 1210	**	**		
PHYS 1211		**	**	
CHEM 1210	**	**		
CHEM 1213		**	**	
HIST 1301	**	**	**	
EGNE 2302		**		**
EGNE 2303	**	**		
EGNE 2304	**		**	
EGNE 2307		**		
EGNE 2308	**	**		
EGNE 2309		**		**
MATH 2301	**		**	
MATH 2311	**		**	
MATH 2303		**		**
EGNE 2306		**		
ERTH 1204	**		**	
ERTH 1212		**		
ENVS 1200	**			