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1	Engineering Prerequisites 2026-27	
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3	*Students must be registered in Engineering Program.	
4	Course Title	Prerequisites
5	EGNE 1203 Engineering Mechanics I: Statics	MATH 1210/1211 (concurrently)
6	EGNE 1204 Computer Methods for Engineers	N/A
7	EGNE 1206 Technical Communications	N/A
8	EGNE 1210 Engineering Design I: Graphics	N/A
9	EGNE 2301 Engineering Mechanics II: Dynamics	MATH 1211, EGNE 1203 (min grade of C)
10	EGNE 2302 Engineering Economics	N/A
11	EGNE 2303 Thermodynamics	MATH 1211 and PHYS 1211
12	EGNE 2304 Mechanics of Materials	MATH 1211 and EGNE 1203 (min grade of C)
13	EGNE 2305 Digital Logic	N/A
14	EGNE 2306 Fluid Dynamics	MATH 1211
15	EGNE 2307 Engineering Design II	48 credit hours in the EGNE program including EGNE 1204, EGNE 1210 and of : EGNE 1203, 2304, 2305, 2306, 2325, 2401
16	EGNE 2308 Electric Circuits I	PHYS 1210 and PHYS 1211 (concurrently)
17	EGNE 2309 Probability and Statistics for Engineers	MATH 1211
18	EGNE 2311 Electric Circuits II	EGNE 2308
19	EGNE 2325 Modelling and Optimization for Engineers	EGNE 1204 (min grade of C)
20	EGNE 2330 Data Structures and Algorithms for Engineers	EGNE 1204 (min grade of C)
21	EGNE 2401 Fundamentals of Process Engineering	CHEM 1213, EGNE 2303 (concurrently)
22	EGNE 3100 Introduction to Resource Industry	60 credit hours in EGNE program
23	EGNE 3100 Mineral Processing and Water Management	EGNE 3100 and EARTH 2301
24	EGNE 3220 Surface Mining Methods	EGNE 3100
25	EGNE 3230 Underground Mining Methods	EGNE 3100
26	EGNE 3310 Renewable Energy and Efficiency	EGNE 3100
27	EGNE 3410 Focused Mining Studies	EGNE 3220 or EGNE 3230
28	EGNE 3411 Focused Renewable Energy Studies	EGNE 3100 and EGNE 3310
29	EGNE 3420 Engineering Design III: Equipment and Services Design	EGNE 2307, and one of EGNE 3220, EGNE 3230 or EGNE 3310
30	EGNE 4110 Material Science	EGNE 3100
31	EGNE 4120 Technologies in the Resource Sector	EGNE 3100
32	EGNE 4150 Industrial Environmental Risk Management	EGNE 3100
33	EGNE 4160 Life-Cycle Cost Analysis	ENVS 3410
34	EGNE 4170 Resource Project Management: Approvals and Indigenous Engagement	ENVS 3410
35	EGNE 4230 Soil and Rock Materials	EGNE 3100 and EARTH 3413
36	EGNE 4310 Biomaterials & Bioenergy	EGNE 3100, EGNE 3310, and EGNE 4110
37	EGNE 4330 Renewable Energy Design	EGNE 3100 and EGNE 4110
38	EGNE 4410 Engineering Design IV: Capstone I	EGNE 3420, and one of EGNE 3220, EGNE 3230 or EGNE 3310 and 102 hours in EGNE program
39	EGNE 4411 Engineering Design IV: Capstone II	EGNE 4410 and 120 credit hours in EGNE program