

## B.Sc. (General) with Diploma in Engineering (90 credit hours)

### Program Requirements

Humanities / Arts (12 credit hr)	Engineering Core (24 credit hr)	Science Core (39 credit hr)
HIST 1301 History of Science & Technology	EGNE 1206 Technical Communications	CSCI 1227 Computer Programming & Problem Solving
3 credit hours Humanities	EGNE 1210 Engineering Design 1: Graphics	MATH 1210 Introductory Calculus I
●	EGNE 1203 Engineering Mechanics 1: Statics	MATH 1211 Introductory Calculus II
●	EGNE 2302 Engineering Economics	PHYS 1210 University Physics I
	EGNE 2303 Thermodynamics	PHYS 1211 University Physics II
	EGNE 2307 Engineering Design II	CHEM 1210 General Chemistry I
	EGNE 2308 Electric Circuits I	CHEM 1213 General Chemistry II for Engineering
	EGNE 2309 Probability & Statistics	MATH 2301 Applied Linear Algebra
		MATH 2311 Intermediate Calculus
		MATH 2303 Differential Equations I
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**NOTES:**

Shaded cells = *suggested* schedule Year 1

- Additional Arts Elective – approved by Science or Engineering Advisor (subjects listed on reverse)
- ◆ Additional Science Elective – approved by Science or Engineering Advisor (up to three credit hours *may* be substituted with Arts Elective)
- Additional Discipline-Science courses from list on reverse (2000-level or above)

Discipline - Specific (9 credit hr)		
Mechanical	Civil / Environmental	Electrical
EGNE 2301 EGNE Mechanics II: Dynamics	GEOL 1204 Geology for Engineers	EGNE 2330 Data Structures & Algorithms for EGNE
EGNE 2304 Mechanics of Materials	EGNE 2304 Mechanics of Materials	EGNE 2305 Digital Logic
EGNE 2306 Fluid Dynamics	EGNE 2306 Fluid Dynamics	EGNE 2311 Electric Circuits II
<b>Chemical</b>		<b>Industrial</b>
CHEM 2344 Organic Chemistry I		EGNE 2330 Data Structures & Algorithms for EGNE
EGNE 2401 Process Engineering		EGNE 2325 Modelling & Optimization for EGNE
EGNE 2306 Fluid Dynamics		any EGNE course (2000 or higher)
<b>Additional Discipline – Science</b> (2000-level or above - 6 credit hr)		
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*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.*

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### Program Requirements

<b>Bachelor of Science (General) with Diploma in Engineering</b>			
■ List of Additional Discipline - Science Courses			
<b>Mechanical</b>		<b>Civil/Mineral/ Environmental</b>	
PHYS 2302	PHYS 2410	ENVS 2100	BIOL 2324
PHYS 2303	PHYS 2510	ENVS 2300	GEOL 2301
CSCI 2308	CSCI 2327	ENVS 2310	GEOL 2302
<b>Industrial</b>		ENVS 3410	GEOL 2325
PSYC 3200	PSYC 3230	ENVS 3420	GEOL 3312
PSYC 3210	CSCI 2308	ENVS 3430	GEOL 3313
		ENVS 3440	GEOL 3413
		ENVS 3840	GEOL 3453
<b>Electrical</b>		<b>Chemical</b>	
PHYS 2302	CSCI 2355	CHEM 2312	CHEM 2313
PHYS 2303	CSCI 2356	CHEM 2332	CHEM 2345
PHYS 2410	CSCI 2308	CHEM 2322	CHEM 2333
PHYS 2510	CSCI 2327	CHEM 3473	CHEM 3424

**Arts:** Anthropology, Arabic, Asian Studies, Atlantic Canada Studies, Chinese, Ancient Studies (Classics), Criminology, Economics, Education, English, French, German, Geography (Group A, C, D only), Health Wellness and Sport in Society, Hispanic Studies, History, Intercultural Studies, Global Development Studies (International Development Studies), Irish Studies, Japanese, Linguistics, Philosophy, Political Science, Religious Studies, Sociology, Social Justice and Community Studies, Spanish, Women & Gender Studies

**Humanities:** Atlantic Canada Studies, Asian Studies, Ancient Studies (Classics), English, History, Intercultural Studies, Irish Studies, Philosophy, Religious Studies, and Modern Languages (courses in literature and/or culture)

<b>Tentative Course Schedule</b>				
<i>** subject to change; official schedule available on Banner</i>				
<b>Course</b>	<b>Semester</b>			
	<b>Fall (Sept-Dec)</b>	<b>Winter (Jan-Apr)</b>	<b>Summer I (May-June)</b>	<b>Summer II (July-Aug)</b>
EGNE 1206	**			
EGNE 1210	**		**	
EGNE 1203		**	**	
CSCI 1227		**	**	
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 2301	**		**	
EGNE 2305	**			
EGNE 2306		**		**
EGNE 2311		**		
EGNE 2330	**			**
EGNE 2401	**			
EGNE 2325		**		
GEOL 1204	**		**	
CHEM 2344	**			



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**Program Requirements**

**2022-23**  
**Calendar**