

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Catalogue

Student: _____
ID #: _____

Date: _____
Advisor: _____

2017-2018

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communications	2		EE 001 - EE Principles and Design ⁵	2	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
Foundational Writing and Info Literacy ¹	3		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
General Education Elective ²	3		CS 020 - Programming for Engineers	3	
ENGR 050 - First Year Engineering Seminar	1		General Education Elective ²	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>16/17</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 003 - Linear Circuit Analysis	3		EE 004 - Linear Circuit Analysis II	3	
EE 081 - Linear Circuits Lab	2		EE 082 - Linear Circuits Lab II	2	
MATH 121 - Calculus III	4		MATH 271 - Appl. Math. for Engr. & Sci.	3	
PHYS 125 - Physics for Engineers II	3		EE 134 - Microcontroller Systems	4	
PHYS 123 - Prob. Solv. Session II [opt]	[1]		MATH 122 - Applied Linear Algebra	3	
EE 131 - Fundamentals of Digital Design	3				
EE 106 - Embedded Programming in C	2				
<i>Total credits</i>	<i>17/18</i>		<i>Total credits</i>	<i>15</i>	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
EE 120 - Electronics I	4		EE 121 - Electronics II	4	
STAT 151 - Applied Probability	3		Technical Elective ³	3	
EE 171 - Signals & Systems	4		EE 174 - Intro. to Comm. Systems	4	
EE 183 - Electronics Laboratory	2		EE 184 - Electronics Design Project	3	
EE 141 - Electromagnetic Field Theory	4		General Education Elective ²	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>17</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Technical Elective ³	3		Technical Elective ³	3	
EE Elective ⁴	3		EE Elective ⁴	3	
EE Elective ⁴	3		EE Elective ⁴	3	
EE 187 - Capstone Design I	3		General Education Elective ²	3	
General Education Elective ²	3		EE 188 - Capstone Design II	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

1. Foundational Writing and Information Literacy: Students must take either ENGS 001 or HCOL 085 (only if the student is enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.

2. Required General Education Electives (GenEd): fifteen credits of approved GenEd electives, including three credits of D1 and three credits of D1 or D2.

3. Technical Electives: Option 1 - All EE Electives⁵ and CS 064, ME 014, ME 040; MATH 052, ANPS 019, ANPS 020, BSAD 180, CHEM 032, CHEM 042 and all 100-level and above courses in engineering (CE, EE, ENGR, ME), CS, MATH, CHEM and PHYS courses except for practicum and seminars. All 200-level or above courses in STAT.

Option 2 - Advisor Approved Advanced (AAA) Electives: EE students may use their nine required credits of technical electives to pursue advanced interests. Plans may include pursuing a minor in a technical or non-technical area or a concentration of courses in curricular areas such as economics, business administration, etc. Pursuit of the AAA option must be pre-approved by both the student's advisor and the EE Program Head. Students must follow through completely on their AAA plan or will need to meet the Option 1 requirements. Once all AAA courses have been approved, students will submit course substitution forms (signed by their advisor and the EE Chair) to the Office of Student Services.

4. EE Electives: EE 113; EE 193; EE 194; and all 200-level, 3-4 credit EE courses. At least 9 credits must be at the 200-level or above. (Four distinct 3-4 credit EE electives are required. EE Elective requirement may not be met by taking three 4 credit courses).

5. Transfer students without applicable transfer credit have the option of either taking EE 001 or replacing the credits with engineering course work at the 100-level or higher.