Freshman Year Fall Semester

Course Code	Description	Cr	
CHM 101	General Chemistry Lec I (A1)	3	
CHM 102	General Chemistry I Lab	1	
ECN 201	Principles of Microeconomics (A2)	3	
EGR 105	Foundations of Engineering I (A4)	1	
MTH 141	Intro Calculus with Analytical Geometry (A1, B3)	4	
ITL XXX		3	
		15	

Freshman Year Spring Semester

Course Code	Description	Cr	
CSC 200	Computer Problem Solving	4	
EGR 106	Foundations of Engineering II (A4)	2	
ELE 101	Intro to Electrical Engineering	1	
MTH 142	Intermed Calc with Analytic Geom (B3)	4	
PHY 203	Elementary Physics I (A1)	3	
PHY 273	Elementary Physics Lab I (A1)	1	
ITL XXX		3	
		18	

Sophomore Year Fall Semester

Course Code	Description	Cr	
ELE 201	Digital Circuits Design	3	
ELE 202	Digital Circuits Design Lab	1	
MTH 362	Advanced Engineering Mathematics I	3	
PHY 204	Elementary Physics II (A1)	3	
PHY 274	Elementary Physics Lab II (A1)	1	
	General Education Outcome(s)	3	
ITL XXX		3	
		17	

Sophomore Year Spring Semester

	Sopholilore real Spring Semester		
Course Code	Description	Cr	
ELE 205	Microprocessors	2	
ELE 206	Microprocessor Lab	1	
ELE 212	Linear Circuit Theory	4	
ELE 215	Linear Circuits Lab	1	
MTH 243	Calculus for Funcs. of Sev. Vars. (A1, B3)	3	
PHY 205	Elementary Physics III Lec (A1, B3)	3	
PHY 206	Elementary Physics III Lab (A1, B3)	1	
ITL XXX		3	
-		18	

Junior Year Fall Semester

Course Code	Description	Cr	
ELE 313	Linear Systems	3	
ELE 331	Intro to Solid State Devices	4	
ELE 338	Electronics I	3	
ELE 339	Electronics I Lab	1	
MTH 451	Intro to Probabilty and Statistics or	3	
or ISE 311	Probability and Statistics for Engineers	3	
ITL XXX		3	
		17	

Junior Year Spring Semester

	Julior real Spring Semester				
	Course Code	Description	Cr		
	ELE 301	Electronic Design Automation	3		
	ELE 302	Electronic Design Automation Lab	1		
	ELE 314	Linear Systems and Signals	3		
	ELE 322	Electromagnetic Fields I	4		
	ELE 343	Electronics II	3		
	ELE 344	Electronics II Lab	1		
	ITL XXX		3		
•			18		

Semester Abroad

Course Code	Description	Cr			
	Engineering Professional Elective				
	General Education Outcome(s)*	3			
	General Education Outcome(s)*	3			
	General Education Outcome(s)*	3			
ITL 3XX or 4XX		3			
		15			

International Internship Semester

Course Code	Description	Cr	
ITL 316-317	Language Study Abroad	3-6	
		3-6	

Senior Year Fall Semester

Course Code	Description		
ELE 400	Intro to Professional Practice		
ELE 480	Capstone Design I (D1)	3	
	Approved Professional Elective**	4	
	Approved Professional Elective**	3-4	
	General Education Outcome(s)*	3	
ITL 4XX		3	

17-18

Senior Year Spring Semester

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Course Code	Description	Cr		
ELE 481	Capstone Design II	3		
	Approved Professional Elective**	3-4		
	General Education Outcome(s)*	3		
	General Education Outcome(s)*	3		
	General Education Outcome(s)*	3		
ITL 4XX		3		

18-19

Specified Math, Science, and Engineering Courses

			-,	,	, , , , , , , , , , , , , , , , , , , ,	
	Introductory Engineering					
Sem	Course	Cr	Grade	QP	Note	
	EGR 105 (A4)	1				
	EGR 106 (A4)	2				
		3				
	•					

Mathematics					
MTH 141 (A1 & B3)	4				
MTH 142 (B3)	4				
MTH 243 (A1 & B3)	3				
MTH 362	3				
MTH 451 or ISE 311	3				
_	17				

Natural Sciences					
CHM 101 (A1)	3				
CHM 102	1				
PHY 203 (A1)	3				
PHY 273 (A1)	1				
PHY 204 (A1)	3				
PHY 274 (A1)	1				
	12				

Computer Science					
CSC 200	4				
	4				

Engineering Science and Design (Major)					
Sem	Course	Cr	Grade	QP	Note
	ELE 101	1			
	ELE 201	3			
	ELE 202	1			
	ELE 205	2			
	ELE 206	1			
	ELE 212	3			
	ELE 215	2			
	ELE 301	3			
	ELE 302	1			
	ELE 313	3			
	ELE 314	3			
	ELE 322	4			
	ELE 331	4			
	ELE 338	3			
	ELE 339	1			
	ELE 343	3			
	ELE 344	1			
	ELE 400	1			
	ELE 480 [capstone]	3			
	ELE 481 [capstone]	3			
		46			

**Professional Elective					
		4			
		3-4			
		3-4			
		3-4			·

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^{*} General Education Outcomes: at least 40 credits must be completed. (A1-D1) must be met by at least three credits. A single course may satisfy one or two outcomes, and at least one course must be a "Grand Challenge". No more than twelve credits can be from the same course code except HPR. General education courses may also by used to meet requirements of your major(s) or minor(s) when appropriate.

**Professional Electives: Four (4) courses that satisfy both of the following: (a) Three (3) from ELE 401/402, 423, 425, 432, 435,436, 444/445, 447/448, 457, 458/459 of which at least one (1) must be from 401/402, 423, 432, 444/445, 447/448, 447/448, 447/448, 447/448, 447/448, 447/448, 447/448, 447/448, 457, 459.) (b) The fourth course must be from: an additional course from (a) above; BME/ELE 461; ELE 405/406, 408/409, 437, 438, 470; or with prior approval of the ECBE department chairperson, any 300- or 400-level College of Engineering course not required by the ELE major.

	General Education Outcome Audit			on Outcome Audit			
	Italian Language Requirements		Course				
				Knowledge			
Sem	Course	Cr	Gr	QP	A1. STEM	CHM & PHY (see above)	11
	ITL	3			A2. Social & Behavioral Sciences	ECN 201	
	- 1				A3. Humanities	ITL 1XX/2XX (suggested)	3
	ITL	3			A4. Arts & Design	EGR 105 & 106	3
	ITL	3			Competences		
	ITL	3			B1. Write Effectively		
		3			B2. Communicate Effectively		
	ITL	3			computational stategies	MTH (see above)	11
	ITL	3			B4. Information literacy		
		-			Responsibilities		
	ITL	3			C1. Civic knowledge & responsibi		
	ITL	3			C2. Global responsibilities	ITL 1XX/2XX (suggested)	3
		3			C3. Diversity and Inclusion		
	ITL 4	3			Inegrate & Apply		
	ITL 4	3			D1. Ability to synthesize	ELE 480	3
		-			Grand Challenge		
=	01, and 102 will no s chosen from ITL 3 ا		-		G. Check that at least one course of your 40 credits is an approved "G" course		
	- 4 1-1111				Total General Education	n Outcome Credits	40