

Bachelor of Science in Computer Engineering -- 131 Credits

JCOE-BSE (RG 7278)
Effective August 2024

Worlds of Knowledge (RQ 3629)

Aesthetic and Creative Expression				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Global History & Culture				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Societies & Civics				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Each student must take 1 course in each of the following Worlds of Knowledge.

Each student must take two additional "Follow-Up" courses from any of the following Worlds of Knowledge.

The minimum number of courses taken in the Worlds must be 5.
(No electives may be taken from the World of Science & Nature)

Follow-Up Courses				
Subject	Number	Course Title	CR	Satisfied/Term

Freshman Year Curriculum (RG 7278)

Freshman Year Curriculum - 1st Term (RQ 3447)				
Complete the following Courses		CR	Satisfied/Term	
Chem 0150	General Chem 1 for Engr	3		
EngCmp 0005	Composition 1	3		
Engr 0017	Intro Engr Analysis	3		
Engr 0081	Freshman Engr Sem 1	0		
Math 0221	Analytic Geom & Calc 1	4		
Phys 0150	Physics 1	4		
Requirement Satisfied		17		

Freshman Year Curriculum - 2nd Term (RQ 3448)				
Complete the following Courses		CR	Satisfied/Term	
Chem 0151	General Chem 2 for Engr	3		
Engr 0018	Intro Engr Computing	3		
Engr 0082	Freshman Engr Sem 2	0		
Math 0231	Analytic Geom & Calc 2	4		
Phys 0152	Physics 2	4		
Requirement Satisfied		14		

Sophomore Year Curriculum (RG 7278)

Soph Year Curriculum - 3rd Term (RQ 3449)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
Commrc 0052	Public Speaking	3		
EE 0031	Linear Circuits 1	3		
EE 0132	Digital Logic	3		
EE 0445	Prog & Intro Data Structures	3		
EE 0500	Digital & Circuits Lab	1		
Math 0241	Analytic Geom & Calc 3	4		
Requirement Satisfied		17		

Soph Year Curriculum - 4rd Term (RQ 3451)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
CS 0417	Interm Prog Using Java	3		
EE 0142	Computer Organization	3		
EE 0257	Analy/Design Electric Circ	3		
EE 0501	Digital Electronics Lab	2		
Engr 0020	Prob & Stats for Engr 1	4		
Math 1271	Differential Equations	3		
Requirement Satisfied		18		

Junior Year Curriculum (RG 7278)

Junior Year Curriculum - 5th Term (RQ 3452)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
CS 0045	Algorithms/Info Struct Appl	1		
CS 0455	Algorithms/Info Structures	3		
EE 1552	Signal and Systems Analy	3		
Math 1181	Linear Algebra	3		
Requirement Satisfied		10		

Junior Year Curriculum - 6th Term (RQ 3453)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
CS 0047	Adv Prog Concepts Appl	1		
CS 0048	Data Structs & Files Appl	1		
CS 0457	Adv Prog Concepts	3		
CS 0458	Data Structures and Files	3		
EE 1541	Computer Architecture	4		
EE 1563	Signals Theory / Practice	3		
Requirement Satisfied		15		

Senior Year Curriculum & Electives (RG 7478)

Senior Year Curriculum - 7th Term (RQ 3454)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
COE 1750	Intro Systems Software	3		
COE 1195	Engr Design/Prof Develop	2		
CS 1735	Software Design Method	3		
Requirement Satisfied		8		

Senior Year Curriculum - 8th Term (RQ 3455)				
Complete the following Courses		CR	Satisfied/Term	
COE 1885	Dept Seminar	0		
COE 1151	Computer Networks	4		
COE 1504	Adv Digital Systems	4		
COE 1199	Senior Project Design	2		
Requirement Satisfied		10		

COE Technical Electives (RQL 4848-10)				
Complete 1 of the following Courses		CR	Satisfied/Term	
CS 1163	Advanced Topics in CS	3		
CS 1164	Adv Topics & Applications	3		
CS 1783	Artificial Intelligence	3		
CS 1792	Computer Operating Syst	3		
EE 1201	Elec Measure/Circuits	2		
EE 1247	Semi Device Theory/App	3		
EE 1771	Electric Machines	3		
Requirement Satisfied		2-3		

Revised 4/1/2026

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

COE Advanced Electives (RQL 4849-20)				
Complete 1 of the following Courses		CR	Satisfied/Term	
EE 1772	Communication Systems (& Lab)	4		
EE 1259	Electromagnetics	3		
	and EE 1059 Electromagnetics Lab	1		
EE 1673	Control Systems	3		
	and EE 1073 Control Systems Lab	1		
EE 1769	Power Systems 1 (& Lab)	4		
Requirement Satisfied		4		