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**	

Sophmore 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 1791 Compiler Design	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 10/10/24

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**	