

Computer Engineering

FIRST TERM

Credit	Class
4	MATH 0221 Calculus I
3	CHEM 0150 (prev. Chem 0111) General Chem Eng 1
4	PHYS 0150 Phys for Eng 1
3	ENGR 0017 Intro to Eng Analysis
3	ENGCMP 0005 Comp. 1 (or 650 or better on reading/writing portion of SAT)
0	ENGR 0081 Freshman Seminar 1
17	TOTAL

SECOND TERM

Credit	Class	Pre/Co Req
4	MATH 0231 Calculus II	MATH 0221 (C or better)
3	CHEM 0151 with Lab (prev. Chem 0115) Gen. Chem Eng 2	CHEM 0150
4	PHYS 0152 Phys for Eng 2	PHYS 0150, MATH 0231
3	ENGR 0018 Intro Eng Computing	ENGR 0017, MATH 0221
3	WOK (S&C, GH&C, A&CE)	
0	ENGR 0082 Fresh. Seminar 2	
17	TOTAL	

THIRD TERM

Credit	Class	Pre/Co Req
4	MATH 241 Calculus III	MATH 0231 (C or better)
3	EE 0132 Digital Logic	PHYS 0152, MATH 0231, EE 0500
1	EE 0500 D & Circuits Lab	MATH 0231, EE 0031, EE 0132
3	EE 0031 Linear Circuits 1	PHYS 0152, MATH 0231, EE 0500 and EE 0132, or JME-BSE plan
3	EE 0445 Programming	MATH 0221, ENGR 0018
3	Communication Skills Elective	
0	COE 1885 Dept Seminar	
17	TOTAL	

FOURTH TERM

Credit	Class	Pre/Co Req
3	MATH 1271 Differential Equations	MATH 0241
3	EE 0142 Computer Organization	EE 0132, EE 0501
2	EE 0501 Digital & Electronics Lab	EE 0031, EE 0132, EE 0142, EE 0257
3	EE 0257 A/design of Electronic circ	EE 0031, EE 0500, EE 0501
4	ENGR 0020 Prob & Stats	MATH 0231 (C or better)
3	CS 0417 Intermediate. Prog. In JAVA	EE 0445
0	COE 1885 Dept Seminar	
18	TOTAL	

FIFTH TERM

Credit	Class	Pre/Co Req
3	WOK (S&C, GH&C, A&CE)	
3	MATH 1181 Linear Algebra	MATH 0231
3	COE Technical Elective	
3	EE 1552 Signals & Systems Analysis	EE 0031, MATH 0231
3	CS 0455 Algo & Info. Structures	CS 0417, CS 0045
1	CS 0045 Algo & Info. Structures Lab	CS 0417, CS 0455
0	COE 1885 Dept Seminar	
16	TOTAL	

SIXTH TERM

Credit	Class	Pre/Co Req
3	WOK (S&C, GH&C, A&CE)	
3	CS 0457 Adv. Programming Concepts	CS 0455, CS 0045, CS 0047
1	CS 0047 Adv. Programming Concepts Lab	CS 0455, CS 0045, CS 0457
3	EE 1563 Signal Processing Th & Practice	EE 1552
3	CS 0458 Data Structures & Files	CS 0455, CS 0045, CS 0048
1	CS 0048 Data Structures & Files Lab	CS 0455, CS 0045, CS 0458
4	EE 1541 Computer Architecture & Lab	EE 0445, EE 0142, EE 0257
0	COE 1885 Dept Seminar	
18	TOTAL	

SEVENTH TERM

Credit	Class	Pre/Co Req
4	COE 1151 Computer Networks & Lab	EE 1552, EE 1541
4	COE Advance Elective	
2	COE 1195 Engr Practice & Prof Dev.	Senior Status, Department permission
3	COE 1750 Intro to Systems Software	EE 0445, EE 1541
3	WOK (S&C, GH&C, A&CE)	
0	COE 1885 Dept Seminar	
16	TOTAL	

EIGHTH TERM

Credit	Class	Pre/Co Req
3	WOK (S&C, GH&C, A&CE)	
3	CS 1736 Software Engineering	CS 0048, CS 0458
4	COE 1504 Advanced Digital Systems & Lab	EE 1541
2	COE 1199 Senior Design: Elective	COE 1195
0	COE 1885 Dept Seminar	
12	TOTAL	

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COE TECHNICAL ELECTIVES

Course	Pre/Co Req	Typical Term
EE 1201 Elec Measurements Lab	EE 0031, EE 0500	Fall
EE 1247 Semi Device Theory/App	EE 0257	Fall
EE 1771 Electric Machines & Lab	EE 0031, EE 1071	Spring
CS 1783 Artificial Intelligence	CS 0048, CS 0458	Fall
CS 1791 Compiler Design	CS 0048, CS 0458	Spring
CS 1792 Computer Operating Systems	CS 0048, CS 0458	Fall

COE ADVANCE ELECTIVES

Course	Pre/Co Req	Typical Term
EE 1673 Control Systems & Lab	MATH 0241, EE 1552 MATH 1271, EE 1073	Fall
EE 1172 Communication Systems & Lab	EE 1552	Fall
EE 1259 Electromagnetics & Lab	EE 0031, EE 0500, EE 1059	Fall
EE 1769 Power Systems I & Lab	EE 1771, EE 1071	Fall

Notes:

- 1) *Italic bold lettering means co-requisites*
- 2) *Students needs a minimum of 131 credits to graduate.*
- 3) *Students who do not need to take ENGCMP 0005 (SAT-V greater than 650) will need to take another 3 credits to meet this requirement.*