

Bachelor of Science in Engineering Computer Concentration

Course #
Course Name
Prerequisite
Semester Taken

1st-fall	2nd	3rd	4th
1st-spring	2nd	3rd	4th

Pre-Engineering (49 cr.)

MATH 111 Calculus I (F,S)	MATH 112 Calculus II (F,S) <i>MATH 111</i>	MATH 211 Calculus III (F,S) <i>MATH 112</i>	MATH 261 Linear Algebra (F,S) <i>MATH 112</i>	MATH 308 Diff. Equations (S) <i>MATH 211</i>	PHYS 211 Gen. Physics I (S) <i>MATH 111</i>	PHYS 212 Gen. Physics II (F) <i>PHYS 211</i>
ENGR 101 Engr. Graphics (J)	ENGR 102 Intro. to Engr. (F)	ENGR 201 Group Orien. (S) <i>ENGR 102</i>	ENGR 231 Statics (F) <i>PHYS 211</i>	ENGR 242 Exp. Methods (F,S) <i>PHYS 211</i>	ENGR 254 Materials Engr. (S) <i>MATH 211/OPI</i>	ENGR 262 Circuits Analysis (F,S) <i>MATH 111</i>
CHEM 105 Gen. Chemistry I (F)						

Upper Division Engineering (12-14 cr.)

ENGR 288* Project I (F) <i>ENGR 201</i>	ENGR 290 Engr. Economics (J) <i>UD Standing</i>	ENGR 301 Seminar I (F,S) <i>Adm. to Major</i>	ENGR 302 Seminar II (F,S) <i>ENGR 301</i>	ENGR 366 Control Systems (F) <i>MATH 308</i>	ENGR 388* Project II (S) <i>ENGR 288</i>	ENGR 488 Project III (F) <i>ENGR 388</i>
*Optional course				*Optional course		
ENGR 489 Project IV (S) <i>ENGR 488</i>						

Computer Concentration (28 cr.)

CIS 181 Comp.Prog. I (F,S)	CIS 182 Comp. Prog. II (S) <i>COSC 181</i>	COSC 281 Assembly Lang. (F) <i>COSC 182</i>	COSC 282 Data Structures (F,S) <i>COSC 182</i>	ENGR 340 Analog Electronics (F) <i>ENGR 262</i>	ENGR 342 Microprocessor (S) <i>ENGR 349</i>	ENGR 349 Digital Electronics (F) <i>ENGR 340**</i>
ENGR/COSCxxx Elective <i>Varies</i>	ENGR/COSCxxx Elective <i>Varies</i>					

**Or concurrent

General Education (42 cr.)

IDFY 101 First Year Seminar	Oral Communications	IDCR 151 Created & Called	Social Sci./History	History	Literature	PHED 101 Intro. to Wellness
Physical Fitness	Philosophy and Religion	Language I	Language II	Non-West./Cross Cult.	Bible	Christian Beliefs
Ethics/W.View/Pluralism	Writing Enriched					

Computer Concentration Electives:

CIS 332 Database Concepts	COSC 415 Data Communications	ENGR 364 Electrical Devices
CIS 333 Database Applications	COSC 416 Operating Systems	ENGR 365 Linear Systems
COSC 382 Org. and Prog. Languages	COSC 487 Computer Graphics	ENGR 367 Electromagnetics
		ENGR 369 Communication Systems