

Computer Concentration Guideline

FIRST YEAR

<u>FALL</u>		<u>SPRING</u>	
CHEM 105 Chemistry	4	MATH 112 Calculus II	4
MATH 111 Calculus I	4	PHYS 211 General Physics I	4
ENGR 102 Intro to Engineering	2	ENGR 101 Engineering Graphics	2
IDFY 101 First Year Seminar	3	ENGR 262 Circuit Analysis	4
General Education	3	IDCR 151 Created & Called for Community	3
	16		17

SECOND YEAR

<u>FALL</u>		<u>SPRING</u>	
MATH 211 Calculus III	4	MATH 261 Linear Algebra	3
² CIS 181 Computer Programming I	3	CIS 182 Computer Programming II	3
PHYS 212 General Physics II	4	² ENGR 242 Experimental Methods	3
ENGR 231 Engineering Statics	3	Physical Fitness	1
General Education	3	General Education	6
	17		16

THIRD YEAR

<u>FALL</u>		<u>SPRING</u>	
COSC 281 Assembly Language	3	COSC 282 Data Structures	3
ENGR 301 Seminar I	1	MATH 308 Differential Equations	3
ENGR 340 Analog Electronics	3	ENGR 201 Group Orientation	1
ENGR 349 Digital Electronics	3	ENGR 290 Engineering Economics	2
Computer Concentration Elective	3	ENGR 302 Seminar II	1
PHED 101 Intro. to Wellness	2	ENGR 342 Microprocessor Applications	4
General Education	3	General Education	3
	18		17

FOURTH YEAR

<u>FALL</u>		<u>SPRING</u>	
ENGR 366 Control Systems	4	ENGR 254 Materials Engineering	4
ENGR 488 Project III	2	ENGR 489 Project IV	2
General Education	9	Computer Concentration Elective	3
	15	General Education	6
			15

Total Credits: 131

Computer Concentration Electives¹

CIS 332 Database Concepts
 CIS 333 Database Applications
 COSC 382 Organization and Programming Languages

COSC 415 Data Communications
 COSC 416 Operating Systems
 COSC 487 Computer Graphics

ENGR 364 Electronic Devices
 ENGR 365 Linear Systems
 ENGR 367 Electromagnetics
 ENGR 369 Communication Systems

¹Your academic advisor will help you choose electives to prepare for work in areas like network consultant, network manager, or hardware designer.

²Course can be taken any time after the 2nd semester.