

## Computer Concentration Guideline

(Entering 2008-09)

### 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
Physical Education	1	IDCR 151 Created & Called for Community	3
General Education	3		<hr/>
	<hr/>		17
	17		

### SECOND YEAR

<u>FALL</u>		<u>SPRING</u>	
MATH 211 Calculus III	4	MATH 261 Linear Algebra	3
COSC 181 Computer Programming I	3	COSC 182 Computer Programming II	3
PHYS 212 General Physics II	4	ENGR 242 Experimental Methods	3
ENGR 231 Engineering Statics	3	ENGR 254 Materials Engineering	4
General Education	3	General Education	3
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	17		16

### THIRD YEAR

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

### FOURTH YEAR

<u>FALL</u>		<u>SPRING</u>	
ENGR 366 Control Systems	4	ENGR 489 Project IV	2
ENGR 488 Project III	2	Computer Concentration Elective	3
General Education	9	General Education	9
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	15		14

#### Computer Concentration Electives<sup>1</sup>

COSC 332 Database Concepts  
COSC 333 Database Applications  
COSC 415 Data Communications  
COSC 416 Operating Systems

COSC 382 Organization and Programming Languages  
COSC 487 Computer Graphics  
ENGR 364 Electronic Devices

ENGR 369 Communication Systems  
ENGR 365 Linear Systems  
ENGR 367 Electromagnetics

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