

Computer Concentration Guideline

TALL	TIKST							
FALL CHEM 105 Chamistra	4	<u>SPRING</u> MATH 112 Calculus II	4					
CHEM 105 Chemistry MATH 111 Calculus I	4		4					
ENGR 102 Intro to Engineering	4 2	PHYS 211 General Physics I ENGR 101 Engineering Graphics	4 2					
IDFY 101 First Year Seminar	3	ENGR 236 Circuit I	4					
General Education	3	IDCR 151 Created & Called for Community						
General Education	16	IDCK 131 Cleated & Caned for Community						
16								
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 284 Computer Programming II	3					
PHYS 212 General Physics II	4	ENGR 201 Group Orientation	1					
ENGR 231 Engineering Statics	3	² ENGR 242 Experimental Methods	3					
General Education	3	Physical Fitness	1					
	17	General Education	6					
			17					
	тнівр	VEAD						
<u>THIRD YEAR</u> FALL SPRING								
CIS 384 Elements of Computer Systems	3	CIS 385 Data Structures and Algorithms	3					
ENGR 288 Project I	1	MATH 308 Differential Equations	3					
ENGR 301 Seminar I	1	ENGR 290 Engineering Economics	2					
ENGR 340 Analog Electronics	3	ENGR 302 Seminar II	1					
ENGR 336 Circuits II	3	ENGR 342 Microprocessor Applications	4					
PHED 101 Intro. to Wellness	2	ENGR 388 Project II	1					
General Education	3	General Education	3					
	16		17					
FOUDTH VEAD								
	FOURTH	VEAR						
FALL	FOURTH							
FALL ENGR 366 Control Systems		SPRING	4					
FALL ENGR 366 Control Systems ENGR 488 Project III	FOURTH 4 2		4 2					
ENGR 366 Control Systems	4	SPRING ENGR 254 Materials Engineering						
ENGR 366 Control Systems ENGR 488 Project III	4 2	SPRING ENGR 254 Materials Engineering ENGR 489 Project IV	2					
ENGR 366 Control Systems ENGR 488 Project III	4 2 9	SPRING ENGR 254 Materials Engineering ENGR 489 Project IV Computer Concentration Elective	2 3-4					
ENGR 366 Control Systems ENGR 488 Project III	4 2 9	SPRING ENGR 254 Materials Engineering ENGR 489 Project IV Computer Concentration Elective	2 3-4 6					

Computer Concentration Electives¹

CIS 332	Database Concepts			ENGR 364	Electronic Devices
CIS 415	Data Communications	CIS 432	Database Applications	ENGR 365	Linear Systems
CIS 416	Operating Systems	CIS 482	Org. of Programming Languages	ENGR 367	Electromagnetics
		CIS 487	Interactive 3D Graphics	ENGR 369	Communication Systems

 $^{^{1}}$ Your academic advisor will help you choose electives to prepare for work in areas like network consultant, network manager, or hardware designer. 2 Course can be taken any time after the 2^{nd} semester.