Computer Concentration Guideline

FIRST YEAR

FALL		SPRING	
ENGR 102 Intro to Engineering	2	ENGR 236 Circuits I	4
CHEM 105 Chemistry	4	MATH 112 Calculus II	4
MATH 111 Calculus I	4	PHYS 211 General Physics I	4
IDFY 101 First Year Seminar	3	IDCR 151 Created & Called for Community	3
General Education	3	General Education	3
	16		18

SECOND YEAR

FALL		SPRING	
ENGR 231 Engineering Statics	3	ENGR 101 Engineering Graphics	2
[2]CIS 181 Computer Programming I	3	ENGR 201 Group Orientation	1
MATH 211 Calculus III	4	[2]ENGR 242 Experimental Methods	3
PHYS 212 General Physics II	4	ENGR 336 Circuits II	3
General Education	3	CIS 284 Computer Programming II	3
	17	MATH 261 Linear Algebra	3
		Physical Fitness	1
			16

THIRD YEAR

FALL		SPRING	
ENGR 288 Project I	1	ENGR 254 Materials Engineering	4
ENGR 301 Seminar I	1	ENGR 290 Engineering Economics	2
ENGR 340 Analog Electronics	3	ENGR 302 Seminar II	1
ENGR 342 Microprocessor Applications	4	ENGR 388 Project II	1
CIS 384 Elements of Computer Systems	3	MATH 308 Differential Equations	3
PHED 101 Intro. to Wellness	2	General Education	6
General Education	3		17
	17		

FOURTH YEAR

FALL		SPRING	
ENGR 488 Project III	2	ENGR 366 Control Systems	4
CIS 385 Data Structures and Algorithms	3	ENGR 489 Project IV	2
Computer Concentration Elective	3-4	General Education	9
General Education	6		15
	14-15		

Total Credits: 131

Computer Concentration Electives[1]

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

March 20, 2014

[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 2nd semester.