

BS COMPUTER ENGINEERING CURRICULUM

FRESHMAN YEAR

1ST SEMESTER

OREN 0100	Orientation I	1
ENGL 0101	English Comp ¹	3
MATH 0207	Calculus I ³	4
EENG 0192	Freshman Engr. Des.	3
	HFA ¹	2
	SBS ² (HIST)	3
Semester credits		16

2ND SEMESTER

OREN 0101	Orientation II	1
ENGL 0102	English Comp ¹	3
EENG 0210	Python Programming	3
MATH 0208	Calculus II	4
PHYS 0310	General Physics I ³	3
PHYS 0313	General Physics I Lab	1
	Physical Education	1
Semester credits		16

SOPHOMORE YEAR

1ST SEMESTER

PHYS 0311	General Physics II	3
PHYS 0314	General Physics II Lab	1
MATH 0209	Calculus III	4
ENGL 0203	Technical Writing ¹ (HFA)	3
CSCI 0229	C++ Programming ³	3
	SBS ² (HIST)	3
	Physical Education	1
Semester credits		18

2ND SEMESTER

EENG 0221	Linear Net. & Circ. I	3
EENG 0221L	Circuits I Lab	1
EENG 0225	Diff. Eq. & Linear Alg.	3
CHEM 0231	General Chemistry ³	4
CHEM 0233	General Chemistry Lab	1
	SBS ²	3
	SBS ²	3
Semester credits		18

JUNIOR YEAR

1ST SEMESTER

CSCI 0300	Discrete Math Structures I	3
COEG 0311	Data Structures and Algorithms	3
EENG 0322	Linear Net. & Circ. II	3
EENG 0322L	Circuits II Lab	1
MENG 0237	Engr. Prob. & Stat.	3
EENG 0260	Intro. to Logic Circ.	3
EENG 0260L	Intro. to Logic Circ. Lab	1
Semester credits		17

2ND SEMESTER

CSCI 0380	Intro. to Info. Security	3
EENG 0390	Engineering Ethics ¹	3
EENG 0360	Microprocessors	3
EENG 0323	Signals & Systems	3
EENG 0325	Electronics I	3
EENG 0325L	Electronics I Lab	1
Semester credits		16

SENIOR YEAR

1ST SEMESTER

COEG 0410	Computer Hardware Design	3
COEG 0405	Internet of Things	3
EENG 0470	Senior Design I	2
EENG 0425	Computer Network Design	3
	Tech. Elect. I (conc.)	3
Semester credits		14

2ND SEMESTER

COEG 0411	Hardware Security	3
EENG 0441	EIT Review	0
EENG 0471	Senior Design II	2
MENG 0429	Engineering Econ.	2
	Tech. Elect. II (conc.)	3
	Science Elective	3
Semester credits		13

TOTAL CREDIT HOURS 128

Tech Electives		
EENG 0427	Internet Security	3
CSCI 0436	Mobile Security	3

CSCI 0431	Software Security	3
	Information Assurance	
CSCI 0421	Mgmt.	3

SBS: Social/Behavioral Sciences

HFA: Humanities/Fine Arts

NSM: Natural Sciences/Mathematics

PE: Physical Education

1 - Humanities/Fine Arts General Education Requirements

2 – Social/Behavioral Sciences General Education Requirements

3 – Natural Sciences/Mathematics General Education Requirements

Note:

All new courses **highlighted**

8 new courses (4 courses common with new EE curriculum)

14 courses related to CE (including senior design)

7 courses related to computer hardware (not including technical electives)

Updated: January 18, 2018