

UNIVERSITY OF SOUTHERN MAINE
Electrical Engineering – Computer Engineering Concentration
 2012-2013 Curriculum – Suggested Sequence – Approved 3/20/2012

First Year

Fall Semester			Spring Semester		
EYE 112	Built Environment: Energy	3	ELE 172	Digital Logic	4
ENG 100	College Writing	3	CHY 113	Principles of Chemistry I	3
PHY 121	General Physics I	4	CHY 114	Laboratory Techniques I	1
PHY 114	Introductory Physics Laboratory I	1	PHY 123	General Physics II	4
MAT 152	Calculus A	4	PHY 116	Introductory Physics Laboratory II	1
			MAT 153	Calculus B	4
Total Credits			Total Credits		
15			17		

Second Year

Fall Semester			Spring Semester		
COS 160	Structured Problem Solving: Java	3	COS 161	Algorithms in Programming	3
COS 170	Structured Programming Laboratory	1	ELE 243	Electronics I: Devices and Circuits	4
ELE 216	Circuits I: Steady-State Analysis	4	ELE 217	Electric Circuits II: System Dynamics	4
EGN 260	Materials Science for Engineers	3	_____	Cultural Interpretation	3
MAT 252	Calculus C	4	MAT 350	Differential Equations	4
Total Credits			Total Credits		
15			18		

Third Year

Fall Semester			Spring Semester		
COS 285	Data Structures	3	COS 350	Systems Programming	3
ELE 346 ⁽¹⁾	Electronics II: Electronic Design	4	_____	Engineering Elective	3
_____	Engineering Elective	3	EGN 301	Jr Design Project, the Engr Profession	3
_____	Socio-Cultural Analysis	3	_____	Ethical Inquiry, Soc Resp, Citizenship	3
_____	Creative Expression	3	MAT 380	Theory of Probability and Statistics	3
Total Credits			Total Credits		
16			15		

Fourth Year

Fall Semester			Spring Semester		
COS ____	Computer Science Elective	3	ELE 271 ⁽¹⁾	Introduction to Microprocessors	4
ELE 314 ⁽¹⁾	Linear Signals and Systems	4	ELE ____	Electrical Engineering Elective	3
ELE ____	Electrical Engineering Elective	3	EGN 304 ⁽¹⁾	Engineering Economics	3
EGN 402	Senior Design Project	3	_____	Diversity (if not elsewhere)	
_____	Cluster 1 (if not an Engr requirement)		_____	International (if not elsewhere)	
_____	Cluster 2	3	_____	Cluster 3	3
Total Credits			Total Credits		
16			13		

Program Total Credits **125**

⁽¹⁾ Course offered on a 2-year rotation, according to the Course Offering Plan