

Computer Engineering BS Curriculum (3/2 Program) Proposed Program with Colby College

Assumptions in the 3/2 Program:

	UMaine ECE	Colby College
1.	HV & SC electives	All HV & SC electives met at Colby
2.	Basic Science Elective	Basic Science met at Colby
3.	MAT 126, MAT 127, MAT 228, MAT 258, and MAT 332	Replaced with corresponding math courses.
4.	PHY 121, PHY 122, and Physics III	Replaced with corresponding physics courses
5.	CHY 121/123 and Chemistry II w/Lab	Replaced with corresponding chemistry courses
6.	ECE 101 is waived	
7.	ECE 177 Introduction to Programming for Engineers	CS 151 Problem Solving and Programming
8.	COS 221 Advanced C++ Programming	CS 361 Object-Oriented Design or CS 333 Programming Languages
9.	CHB 350 Statistical Process Control and Analysis	MA 381 Mathematical Statistics I
10.	COS 420 Operating Systems	CS 357 Operating Systems

1. All other requirements for the CEN degree must be met at UMaine.
2. One extra technical elective is added. This is to meet the minimum credit hour requirement (60 credit hrs) for University of Maine to offer a degree.

Computer Engineering BS Curriculum (3+2)
Proposed Program with Colby College
 Effective Fall 2009 (Class of 2013)

<i>Fall</i>		1st Year		<i>Spring</i>		
ECE 101	Intro to ELE & CEN Engineering	4		ECE 177	Intro to Progr for Engineers	4
CHY 121	Intro to Chemistry	3		PHY 121	Physics for Engineers I	4
CHY 123	Intro to Chemistry Lab	1		CMJ 103	Fund of Public Communication	3
MAT 126	Calculus I	4		MAT 127	Calculus II	4
ENG 101	College Composition	3		Elective	Basic Engineering	3
		15				18

2nd Year						
ECE 210	Electrical Networks I	3		ECE 211	Electrical Networks II	3
ECE 275	Sequential Logic Systems	3		ECE 214	Electrical Networks Lab	3
PHY 122	Physics for Engineers II	4		ECE 271	Micro Arch & Applications	3
MAT 228	Calculus III	4		MAT 258	Diff Eq. & Linear Algebra	4
COS 221	Intro to Computer Science II	3		ECP214	Engineering Writing I	1
				Elective	Basic Science	4
		17				18

3rd Year						
ECE 300	Seminar	1		ECE 343	Electronics II	4
ECE 314	Linear Circuits and Systems	3		ECE 401	Design Project I	1
ECE 342	Electronics I	4		CHB 350	Statistical Proc & Analysis	3
*ECE 471/ Elective	Microproc Appl Engineering or Technical Elective(1)	3		*ECE 477	Hardware Applications in C	3
ECP 342	Engineering Writing II	1		MAT 481	Discrete Mathematics	3
Elective	HV & SC (1)	3		ECP 401	Engineering Writing III	1
		15				15

4th Year						
ECE 402	Design Project II	4		ECE 403	Design Project III	2
ECE 473	Computer Architecture & Org.	3		Elective	HV & SC (3)	3
COS 431	Operating Systems	3		Elective	HV & SC (4)	3
Elective	Technical Elective (2)	3		Elective	Technical Elective (3)	3
Elective	HV & SC (2)	3		Elective	Technical Elective (4)	3
		16				14

MINIMUM CREDIT HOURS TO GRADUATE: 128

* Either ECE 471 (fall) or ECE 477 (spring) is required.

This is a *sample* curriculum. If **either BIO 222/223 or ERS 102** are used to satisfy the Basic Science Elective, only 4 additional HV & SC courses (including one which satisfies the Ethics requirement) plus CMJ 103 are require to complete the HV & SC Gen Ed requirement.

Check with your academic advisor for assistance. Additional information can be found on the check-off sheet.

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Courses Taken at UMaine

<i>Fall</i>		4th Year				<i>Spring</i>	
ECE 210	Electrical Networks	3		ECE 211	Electrical Networks II	3	
ECE 275	Sequential Logic Systems	3		ECE 214	Electrical Networks Lab	3	
ECE 300	Seminar	1		ECP 214	Engineering Writing I	1	
ECE 471 /Elective	Micro. Applications Engineering/ Technical Elective	3		ECE 271	Micro. Arch & App		
Elective	Basic Engineering	3		ECE 401	Design Project I	1	
Elective	Technical	3		ECP 401	Engineering Writing III	1	
				Elective	Technical	3	
		16					15

5th Year							
ECE 314	Linear Circuits & Systems	3		ECE 343	Electronics II	4	
ECE 342	Electronics I	3		ECE 403	Design Project III	2	
ECP 342	Engineering Writing II	1		ECE 477/ Elective	Hardware Applications in C/ Technical Elective	3	
ECE 402	Design Project II	4		Elective	Technical	3	
ECE 473	Computer Arch & Organization	3		Elective	Technical	3	
		14					15

* Either ECE 471 (fall) or ECE 477 (spring) is required.

MINIMUM UMaine CREDIT HOURS TO GRADUATE: 60