

# Electrical Engineering BS Curriculum (2/1/1/1 Program)

## Effective Fall 2009 (Class of 2013)

### Proposed Program with Colby

#### 1st YEAR

MAT 126	Calculus I	4
CHY 121	Intro to Chemistry	3
CHY 123	Intro to Chemistry Lab	1
ECE 101	Intro to ELE and CEN Engin	4
ENG 101	College Composition	3
		<b>15</b>

MAT 127	Calculus II	4
PHY 121	Physics for Engineers I	4
Elective	HV & SC (1)	3
ECE 177	Intro to Progr for Engineers	4
CMJ 103	Fund of Public Communication	3
		<b>18</b>

#### 2nd YEAR

MAT 228	Calculus III	4
PHY 122	Physics for Engineers II	4
ECE 210	Electrical Networks I	3
ECE 275	Sequential Logic Systems	3
Elective	Basic Engineering	3
		<b>17</b>

MAT 258	Diff Eq. & Linear Algebra	4
ECE 211	Electrical Networks II	3
ECE 214	Electrical Networks Lab	3
ECP 214	Engineering Writing I	1
ECE 271	Micro Arch & Applications	3
Elective	Basic Science	4
		<b>18</b>

#### 3rd YEAR

ECE 300	Seminar	1
CHB 350	Statistical Process & Analysis	3
ECE 342	Electronics I	4
ECP 342	Engineering Writing II	1
ECE 351	Fields and Waves	3
ECE 314	Linear Circuits & Systems	3
		<b>15</b>

ECE 401	Design Project I	1
ECP 401	Engineering Writing III	1
ECE 343	Electronics II	4
ECE 486	Digital Signal Processing	4
ECE 414	Feedback Control System	3
Elective	Technical (1)	3
		<b>16</b>

#### 4th YEAR

ECE 402	Design Project II	4
Elective	Technical (2)	3
Elective	Technical (3)	3
Elective	HV & SC (2)	3
Elective	HV & SC (3)	3
		<b>16</b>

ECE 403	Design Project III	2
Elective	Technical (4)	3
Elective	Technical (5)	3
Elective	HV & SC (4)	3
Elective	HV & SC (5)	3
		<b>14</b>

Note: 3rd year, 5th year

**MINIMUM CREDIT HOURS TO GRADUATE: 129**

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) are needed to complete the HV & SC Gen Ed requirement and HV & SC Elective (5) should be replaced with Technical Elective (6).

Adjustments, such as interchanging HV & SC electives, technical Electives, ECE 351, ECE 486, ECE 414, and ENG 317 between Junior and Senior semesters, can be made to suit individual preferences. Be sure all degree requirements are met. Check with your academic advisor for assistance. Additional information can be found on the check-off sheet.

February 27, 2009

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### 3rd YEAR (1st YEAR at UMaine)

ECE 210	Electrical Networks I	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 351	Fields and Waves	3	ECE 271	Micro Arch & Applications	3
Elective	Basic Engineering	3	ECE 401	Design Project I	1
Elective	Technical (1)	3	ECP 401	Engineering Writing III	1
			Elective	Technical (2)	3
		<b>16</b>			<b>15</b>

### 5th YEAR (2nd YEAR at UMaine)

ECE 314	Linear Circuits & Systems	3	ECE 343	Electronics II	4
ECE 342	Electronics I	4	ECE 403	Design Project III	2
ECP 342	Engineering Writing II	1	ECE 414	Feedback Control System	3
ECE 402	Design Project II	4	ECE 486	Digital Signal Processing	4
Elective	Technical (3)	3	Elective	Technical (4)	3
		<b>15</b>			<b>16</b>

**MINIMUM CREDIT HOURS TO GRADUATE: 62**

February 27, 2009