

Check List

Graduation Requirements

ELECTRICAL ENGINEERING – Class of 2010

Student _____

Advisor _____

1. Total hours: at least 129 _____
2. Passing grade in all required classes _____

3. Overall GPA 2.0 _____
4. Department GPA 2.0 _____

Required Courses:

CHY 121 _____	PHY 121 _____	ECE 101 _____	ECE 314 _____
CHY 123 _____	PHY 122 _____	ECE 177 _____	ECE 342 _____
		ECE 210 _____	ECE 343 _____
	MAT 126 _____	ECE 211 _____	ECE 351 _____
ENG 101 _____	MAT 127 _____	ECE 214 _____	ECE 401 _____
ECP 214 _____	MAT 228 _____	ECE 271 _____	ECE 402 _____
ECP 342 _____	MAT 258 _____	ECE 275 _____	ECE 403 _____
ECP 401 _____	CHB 350* _____	ECE 300 _____	ECE 414 _____
			ECE 486 _____

Note* CHB 350 can be replaced with either ECE 383 or MAT 332

HV&SC* + Ethics General Education Requirements (18 hours in 5 of the 6 areas)

Each of the 6 areas below must be represented; A course may cover multiple areas.

Course	Hours	Grade	West	Soc	Cult	Pop	Art	Ethics
CMJ 103	3			X				

West - Western cultural tradition; Soc - Social context and institutions; Cult - Cultural diversity and international perspectives; Pop - Population and the environment; Art - Artistic and creative expression.

Engineering Elective (3 hours)

Basic Science Elective* (4 hours)

Technical Electives (15 hours minimum)

- ECE #1: _____
 ECE #2: _____
 ECE #3: _____

- Tech Elective #4: _____
 Tech Elective #5: _____
 Tech Elective #6*: _____

* You may elect to take ERS102 or BIO 222/223 to concurrently satisfy the Basic Science requirement and the Population and environment segment of the HV & SC requirement. This option frees up 3 credit hours which must be satisfied by taking an additional Technical Elective.

Information About Elective Courses

Technical Electives: The Curriculum requires five Technical Elective courses to broaden a student's knowledge base or to specialize in an area such as: Microelectronics, Sensors, Power, Computer Hardware, Communications or Signal Processing. At least three of the Technical Electives must be 300 Level or higher ECE Courses (exclusive of ECE 394). With approval of the student's advisor, two of the Technical Electives may be ECE 394 or selected from various advanced Math, Physics, Biology, Chemistry, Engineering, Science, Computer Science, or Business courses.

Human Values and Social Context and Ethics: In addition to CMJ 103, the curriculum requires five courses to complete the General Education Requirements in Ethics and Human Values and Social Context (HV&SC). In addition to the Ethics requirement, the five areas under HV&SC are: Western Cultural Tradition, Social Contexts and Institutions, Cultural Diversity and International Perspective, Population and the Environment, and Artistic and Creative Expression. Note that CMJ 103 satisfies the Social Contexts and Institutions requirement. A list of HV&SC courses with the categories that they satisfy are available on the [Office of Student Records](#) web page. The structure of the ECE curriculum guarantees that all other General Education Requirements are met. You may elect to take ERS 102 or BIO 222/223 to satisfy your Basic Science requirement and part of the 18 credit hour HV&SC requirement. This option frees up 3 credit hours which can be used to take an additional Technical Elective.

Basic Engineering Elective: The Curriculum requires at least one engineering course, outside of the department, to broaden a student's knowledge base in engineering. Courses satisfying the Basic Engineering Elective include:

CHB 200	Fundamentals of Process Engineering	MEE 230	Thermodynamics I
CIE 231	Fundamentals of Environmental Engineering	MEE 252	Statics and Strength of Materials
MEE 150	Applied Mechanics: Statics		

Basic Science Elective: In addition to CHY 121/123, PHY 121 and PHY 121, the Curriculum requires at least one additional physical or biological science course, with a lab, to broaden a student's knowledge base in science. Courses satisfying the Basic Science Elective include:

AST 215/110	General Astronomy I	BIO 222/223	Biology
AST 216/110	General Astronomy II	ERS 101	Introduction to Geology
CHY 122/124	Molecular Basis of Chemical Change	ERS 102	Environmental Geology of Maine
PHY 236/223	Quantum Mechanics / Special Relativity		

Program Specific Requirements

1. Repeating any ECE course for which a grade of F, L, or WF has been recorded requires a grade of C- or better in prerequisites for the course.
2. Dismissal from the program will be recommended if any required course in the program is taken twice without achieving a passing grade. This includes courses where a grade of AU, L, W, or WF is received.
3. To obtain a BS in Electrical Engineering, a student must: (1) meet all University academic requirements; (2) meet all Electrical Engineering curriculum requirements; and (3) have a GPA of 2.0 or better in all ECE courses.
4. Any exceptions to the program specifics listed above require approval of the ECE faculty.

Additional Information

Check the web page of [Frequently Asked Questions \(FAQ\)](#) for additional information about the ECE program.