

**Check List  
Graduation Requirements  
Computer Engineering – Class of 2011**

**STUDENT** \_\_\_\_\_

**ADVISOR** \_\_\_\_\_

1. Total hours (at least 128<sup>a</sup>) \_\_\_\_\_
2. Passing grade in all required courses \_\_\_\_\_

3. Overall GPA 2.0 \_\_\_\_\_
4. Department GPA 2.0 \_\_\_\_\_
5. COS courses 2.0 \_\_\_\_\_

**Required Course Grades**

CHY 121 _____	MAT 126 _____	ECE 101 _____	ECE 300 _____
CHY 123 _____	MAT 127 _____	ECE 177 _____	ECE 314 _____
COS 221 _____	MAT 228 _____	ECE 271 _____	ECE 342 _____
COS 431 _____	MAT 258 _____	ECE 210 _____	ECE 343 _____
	MAT 481 _____	ECE 211 _____	ECE 401 _____
ENG 101 _____	<sup>b</sup> CHB 350 _____	ECE 214 _____	ECE 402 _____
ECP 214 _____		ECE 275 _____	ECE 403 _____
ECP 342 _____	PHY 121 _____		ECE 473 _____
ECP 401 _____	PHY 122 _____	<sup>c</sup> ECE 471 or	ECE 477 _____

- a The 128 hour total assumes election of ERS102 or BIO 222/223 to concurrently satisfy the Basic Science requirement and the Population & Environment segment of the HV & SC requirement. With this option the 4 credit hours count only once toward the 128 hour total. If an alternative Basic Science course is chosen then the minimum credit hour requirement becomes 131.
- b CHB 350 can be replaced with either ECE 383 or MAT 332.
- c Either ECE 471 (fall) or ECE 477 (spring) is required.

**HV&SC + Ethics Course Requirements (18 hrs in the first 5 of the 6 areas)**

Each of the 6 areas below must be represented. A course may represent 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 Science Elective/Grade (3 hrs)**

**<sup>a</sup> Basic Science Course/Grade (4 hrs)**

\_\_\_\_\_

\_\_\_\_\_

**Technical Electives/Grades (at least 12 hrs)**

Computer Focus #1: \_\_\_\_\_

Technical Elective #3: \_\_\_\_\_

Computer Focus #2: \_\_\_\_\_

Technical Elective #4: \_\_\_\_\_

In addition to acceptable COS technical electives, the following ECE courses may be used to satisfy the "Computer Focus" requirement:

ECE 331	ECE 417	ECE 435	ECE 471
ECE 477	ECE 478	ECE 486	ECE 487

## Suggested Engineering Science Electives

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

## Suggested Basic Science Electives

<sup>a</sup> BIO 222/223 or ERS 102
AST 110 and either AST 215 or AST 216 (NOTE: AST 109 is NOT acceptable)
ERS 101
CHY 122/124
PHY 236/223

## Information about Elective Courses

**General Education Electives** – In addition to CMJ 103, the curriculum requires five courses used to complete General Education Requirements in Ethics and Human Values/Social Context (HV & SC). Note that CMJ 103 satisfies the Social Contexts and Institutions requirement. A course meeting the Ethics requirement must also meet one of the HV & SC areas in order to be counted in the 18 hours of HV & SC courses. The structure of the curriculum guarantees that all other General Education Requirements will be met.

**Technical Electives** – The Curriculum requires four courses used to broaden a student's knowledge base or to specialize in areas like Microelectronics, Sensors, Power and Industrial Control, Computer Hardware, or Communications and Signal Processing. **Two technical electives must be from the ECE Department. Neither ECE 394 nor ECE 198 may be used as one of these two electives.** Two technical electives may be selected from various engineering, math, computer science, or other technical offerings including ECE 394 and ECE 198 with the approval of the student's advisor.

## Program Specifics

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. No student will be allowed to repeat an ECE course for which any of the required prerequisites have not been satisfied by obtaining a grade of at least C-.

Any required course in the curriculum cannot be taken more than twice. If any required course in the program is taken twice without achieving a passing grade then dismissal from the program will be recommended. This includes courses where a grade of AU, L, W, or WF is received.

To obtain a BS in Computer Engineering, a student must: (1) meet all University academic requirements; (2) meet all Computer Engineering curriculum requirements; and (3) have a composite GPA of 2.0 or better in all ECE courses as well as a composite GPA of 2.0 or better in all COS courses.

Any exceptions to the program specifics listed above require approval of the ECE faculty.