

Check List
Graduation Requirements
COMPUTER ENGINEERING – Class of 2010

STUDENT _____

ADVISOR _____

1. Total hours (at least 128 ^a) _____
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 _____	^b CHB 350 _____	ECE 214 _____	ECE 402 _____
ECP 214 _____		ECE 275 _____	ECE 403 _____
ECP 342 _____	PHY 121 _____		ECE 473 _____
ECP 401 _____	PHY 122 _____	^c 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) ^a **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: Statics
MEE 230	Thermodynamics I
MEE 252	Statics and Strength of Materials

Suggested Basic Science Electives

^a 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.