

B. S. Computer Engineering Curriculum

Department of Electrical & Computer Engineering
2008-2009Catalog

Name: _____

UIN: _____

FRESHMAN FIRST SEMESTER

| | | | Term | Grade | Pre-/Co-requisites |
|------------------------------------|----------------------|---|-------|-------|-----------------------|
| ENGN 110 | Engineering & Tech I | 2 | _____ | _____ | P-MATH 162M |
| CHEM 115N | Chemistry I | 4 | _____ | _____ | C-MATH 102M |
| MATH 211 | Calculus I | 4 | _____ | _____ | P-MATH 163 |
| ENGL 110C | English Comp I | 3 | _____ | _____ | P-pass Placement test |
| GEN ED: Social Science Perspective | | 3 | _____ | _____ | _____ |

FRESHMAN SECOND SEMESTER

| | | | | | |
|-----------|-----------------------|---|-------|-------|--------------|
| ENGN 111 | Engineering & Tech II | 2 | _____ | _____ | P-MATH 162M |
| CHEM 117 | Chemistry II | 3 | _____ | _____ | P-CHEM 115N |
| MATH 212 | Calculus II | 4 | _____ | _____ | P-MATH 211 |
| CS 150 | Intro to Programming | 4 | _____ | _____ | P-MATH 102M |
| PHYS 231N | University Physics I | 4 | _____ | _____ | P/C-MATH 211 |

SOPHOMORE FIRST SEMESTER

| | | | | | |
|--------------------------------|------------------------|---|-------|-------|----------------------------------|
| MATH 307(280) | Differential Equations | 3 | _____ | _____ | P-MATH 212 |
| ECE 200 | Engn. Analysis Tools | 3 | _____ | _____ | P-MATH 212, C-ECE 201 |
| ECE 201 | Circuit Analysis | 3 | _____ | _____ | P/C-MATH 307, PHYS 232N, ECE 200 |
| PHYS 232N | University Physics | 4 | _____ | _____ | P-PHYS 231N |
| GEN ED: Literature Perspective | | 3 | _____ | _____ | _____ |

SOPHOMORE SECOND SEMESTER

| | | | | | |
|--------------------------------|-----------------------------|---|-------|-------|------------------------------|
| ECE 202 | Circ., Signals & Lin. Syst. | 3 | _____ | _____ | P-ECE 201, MATH 307 |
| ECE 287 | Circuit Laboratory | 2 | _____ | _____ | P-ECE 201, CS 150, C-ECE 202 |
| ECE 241 | Fund. Comp. Engn. | 4 | _____ | _____ | P-CS 150, MATH 211 |
| CS 250 | Prob Solving & Prog. | 4 | _____ | _____ | P-CS 150, C-CS 252 |
| CS 252 | Intro to UNIX | 1 | _____ | _____ | C-CS 250 |
| GEN ED: Philosophy Perspective | | 3 | _____ | _____ | _____ |

JUNIOR FIRST SEMESTER

| | | | | | |
|--|-----------------------|---|-------|-------|--------------------|
| ECE 313 | Electronic Circuits | 4 | _____ | _____ | P-ECE 202, P/C-241 |
| ECE 341 | Digital System Design | 3 | _____ | _____ | P-ECE 241 |
| CS 361 | Adv. Data Structures | 3 | _____ | _____ | P-CS 250, CS 252 |
| GEN ED: Fine/Performing Arts Perspective | | 3 | _____ | _____ | _____ |
| ENGL 131C | Technical Writing | 3 | _____ | _____ | P-ENGL 110C |

JUNIOR SECOND SEMESTER

| | | | | | |
|---|-----------------------|---|-------|-------|------------|
| ECE 304 | Prob. Stat. & Reliab. | 3 | _____ | _____ | P-MATH 212 |
| ECE 346 | Microcontrollers | 3 | _____ | _____ | P-ECE 241 |
| CS 451 | Software Engineering | 3 | _____ | _____ | P-CS 361 |
| ECE 3XX | Technical Elective 1 | 3 | _____ | _____ | _____ |
| Upper Division GEN ED: Cluster or Minor | | 3 | _____ | _____ | _____ |

SENIOR FIRST SEMESTER

| | | | | | |
|---|-----------------------|---|-------|-------|--|
| ECE 489W | CMEN Design I | 3 | _____ | _____ | P/C-ECE 313, P-ECE 341, 346, C-ECE 443 |
| ECE 443 | Computer Architecture | 3 | _____ | _____ | P-ECE 341, 346, P/C-ECE 304, 489W |
| ECE 4XX | Technical Elective 2 | 3 | _____ | _____ | _____ |
| Upper Division GEN ED: Cluster or Minor | | 3 | _____ | _____ | _____ |
| GEN ED: History Perspective | | 3 | _____ | _____ | _____ |

SENIOR SECOND SEMESTER

| | | | | | |
|---|----------------------|---|-------|-------|------------------------------|
| ECE 486 | ECE Design II | 3 | _____ | _____ | P-ECE 313, P/C-ECE 304, 489W |
| CS 471 | Operating Systems | 3 | _____ | _____ | P-CS 361, ECE 443 |
| ECE 4XX | Technical Elective 3 | 3 | _____ | _____ | _____ |
| ECE 4XX | Technical Elective 4 | 3 | _____ | _____ | _____ |
| Upper Division GEN ED: Cluster or Minor | | 3 | _____ | _____ | _____ |
| ENGN 401 | FE Exam Review | 1 | _____ | _____ | _____ |

Cluster or Minor: _____ Upper division cluster – 9 hours Minor – minimum of 12 hours

Foreign Language: _____

Advisor Approval: _____

Date: _____