



## MINOR OPTIONS

Bulletin Year 2007-2008

### Architectural Engineering Technology

Department of Architecture

AET 123 Architectural Design I

AET 155 History of Architecture

Plus four additional AET courses.

### Audio Engineering Technology

Electrical and Computer Engineering Department

Choose one circuits / electronics course

ECT 111 Intro to Electronics

or ECT 245 Elec. / Electron Fundamentals

or ECE 213/215 Electric Circuit Analysis I and Lab

or ECE 210 Intro to Electrical Engineering

Both are required:

AUD 110 Music for Audio Technology

AUD 122 Recording Principles

At least 11 credits from the following list:

AUD any course

MPT 451 Sound Technology II

ES 262 Intro to Music & Architecture Acoustics

ES 562 Acoustics for Musicians

ECT 122 Intro to Digital Devices

or ECE 231/232 Digital Systems Logic and Lab

or ECE 360 Circuits and Electronics

or ECE 361/363 Electronics Fundamentals and Lab

or ECT 355 Indus. Electron. And Actuators

or ECT 364 Indus. Instrumen. And Sensors

### Biomedical Engineering

Civil, Environmental, and Biomedical Engineering Department

The following are required to minor in Biomedical Engineering:

BE 281 Biomedical Engineering Seminar I

BE 301 Biomechanics

BE 302 Biofluids

BE 401 Bio-Instrumentation

Plus any of the three following:

BIO 212 Anatomy and Physiology I

BIO 213 Anatomy and Physiology II

ECE 360 Circuits and Electronics

ES 212 Mechanics of Materials

ES 320 Thermal-Fluids Engineering or Equivalent

ME 213 Mechanical Engineering Materials and Lab or Equivalent

ME 505 Mechatronics

PHY 250 Materials Science

Or with permission:

BE 480 Biomedical Engineering Practicum I

BE 485 Biomedical Engineering Practicum II

### Civil Engineering

Civil, Environmental, and Biomedical Engineering Department

Students must complete six courses (18 credits) from the CE course listings 300 level or above. No more than three selected courses should be listed from the students required major.

In addition to the CE courses, the following may also be options:

ES 212 Mechanics of Materials

ES 320 Thermal-Fluids Engineering

CE 260 Civil Engineering Materials Lab

ME 213 Mechanical Engineering Materials and Lab or Equivalent

### Computer Engineering

Electrical and Computer Engineering Department

Choose any of the following six courses:

ECE 231 Digital System Logic and ECE 232 Digital Lab

ECE 234 Digital Design Using CPLDs

ECE 332 Intro to Microprocessors

ECE 335 Computer Architecture

ECE 336 Computer Systems Lab

ECE 341 Discrete and Continuous Systemes

ECE 435 System Simulation

ECE 440 Digital Signal Processing and Lab

ECE 481 Electrical Engineering Special Problems

### Computer Engineering Technology

Electrical and Computer Engineering Department

Both are required

ECT 111 Intro to Electronics

ECT 245 Elec./electron. Fundamentals

At least 10 credits from the following list

ECT 353 Computer Architecture

ECT 363 Computer Interfacing

ECT 365 Object-Oriented Programming

ECT 472 Computer Networking

ECT 474 Digital Signal Processing

ECT 483 Data Acquisition Systems

ET 180, ET 280, ET 380, ET 480 Indep. Studies [1-4 credits]

### Electrical Engineering

Electrical and Computer Engineering Department

Choose either:

ECE 210 Intro to Electrical Engineering

or ECE 213 Electrical Circuit Analysis and ECE 215 Circuits Lab

Any two of the following:

ECE 231 Digital System Logic and ECE 232 Digital Lab

ECE 332 Microprocessor Application

ECE 360 Circuits and Electronics

or ECE 361 Electronic Fund. and Electronic Lab

And any three additional ECE courses, 3 or 4 credits.

### Mechanical Engineering

Mechanical Engineering Department

Students must complete six courses from the ME course listings. No more than three selected courses should be listed for the students required major.

### Mechanical Engineering Technology

Mechanical Engineering Department

ES 220 Graphic Communication

ES 221 Advanced Graphic Communication Using AutoCAD

MET 116 Manufacturing Processes

MET 236 Statics for Engineering Technology

MET 363 Machine Design I

MET 470 Thermodynamics I for Engineering Technology

### Mechatronics

Electrical and Computer Engineering Department

This minor is not available to those students in electrical or computer engineering. A GPA of 2.33(C+) must be achieved in this minor.

ECE 231 Digital System Logic and ECE 232 Digital Lab

ECE 210 Intro to Electrical Engineering

or ECE 213 Electrical Circuit Anal. and ECE 215 Circuits Lab

ECE 360 Circuits and Electronics

or ECE 361 Electronic Fundamentals and ECE 363 Elec. Lab

ECE 382 Design I Professional Practice

Plus two of the following courses:

ES 440 Automatic Control System Analysis

ME 505 Mechatronics System Design

ECE 341 Discrete and Continuous Systems

ECE 442 Continuous Control Systems

When considering the addition of a minor into your curriculum, you should first consult your faculty advisor to be sure this aligns with your educational and career goals and objectives. Your final course selection for your minor should be done with a professor within that department to approve the appropriate outline of courses. Also make sure that you complete a "Change of Major" form to ADD your new minor.