Mechatronic Engineering

Major Academic Plan
Flowchart Format
University Catalog 2003-2005

01006

Key

Prerequisite or concurrent enrollment recommended

prerequisite

seminars offered

F=fall S=spring

Course Title

units

Course Number

prerequisite

Fall

16 units

Freshman

ECE 85
Logic Design Fund
FS

ECE 97
Sim & Analysis Tools
FS

MATH 7B
Anal Geom & Calculus
FS

PHYS 4A
Mechanics
FS

Chem 7A
General Chemistry
FS

Enl 1
Freshman Composition
FS

GE Area C*
Arts & Humanities
FS

Fall

18 units

Sophomore

ECE 90
Algorithms & Programs
FS

ECE 95 & 95L
Elect Circuits & Devices
FS

MATH 7C
Anal Geom & Calculus
FS

PHYS 4B
Electricity & Magnetism
FS

ECE 140
Linear Circuits
FS

MATH 7D
Diff Eqs & Vector Calc
FS

PHYS 4C
Heat, Light, Sound
FS

CE 35
Statics
FS

Fall

16 units

Junior

ECE 186
Digital Systems Design
FS

ECE 145
Electronics I
FS

ME 121
Engineering Economy
FS

ME 135
Dynamics
FS

ECE 188
Comp Interface Circuits
FS

ECE 146
Electronics II
FS

ME 261
Measurement & Instrum
S

ME 138
Mechanical Engr Design
S

Fall

19 units

Senior

ECE 236
State Machine Design
S

MECA 238A
MECA Design Proj I
F

ME 201
Control System Design
F

HIST 50
U.S. History
FS

MECA 238B
MECA Design Proj II
S

ME 250
Thermal Packaging
S

POLS 55
American Government
FS

ENG 195
Lifelong Development
FS

GE Area D*
Behavioral & Social Sci
FS

GE Upper Div*
The Theme Course
FS

GE Upper Div*
The Theme Course
FS

Fall

16 or 19 units

Spr 18 or 15 units

Technical Elective
With Advisor's Approval
FS

ME 261
Measurement & Instrum
S

ME 201
Control System Design
F

MECA 238B
MECA Design Proj II
S

ME 250
Thermal Packaging
S

POLS 55
American Government
FS

ENG 195
Lifelong Development
FS

GE Upper Div*
The Theme Course
FS

* One Ethnic course and one Non-Western course is required.