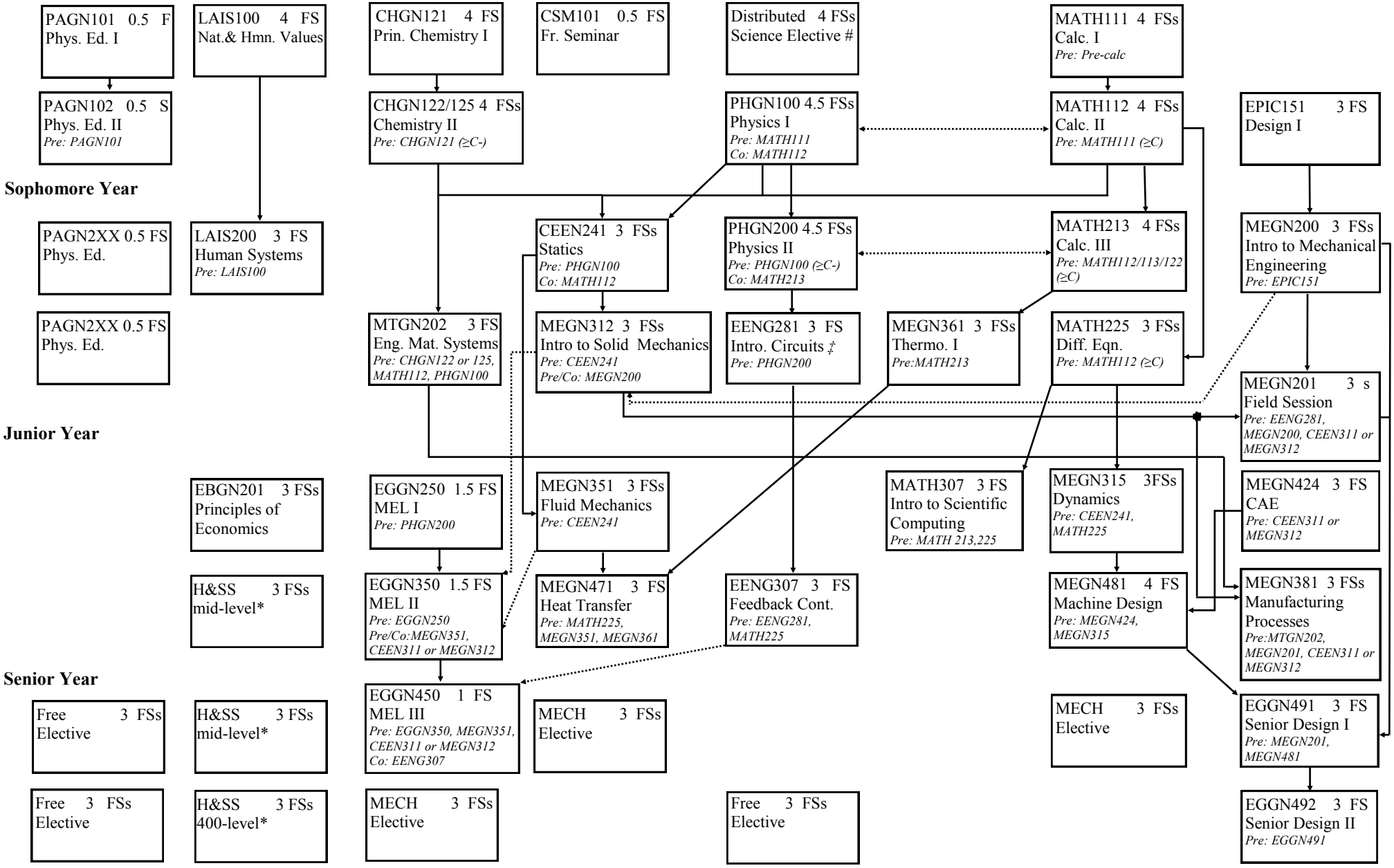
Total Credit Hours 134.5

College of Engineering & Computational Sciences

B.S. Mechanical Engineering ~ Advising Flowchart ~ 2015-2016

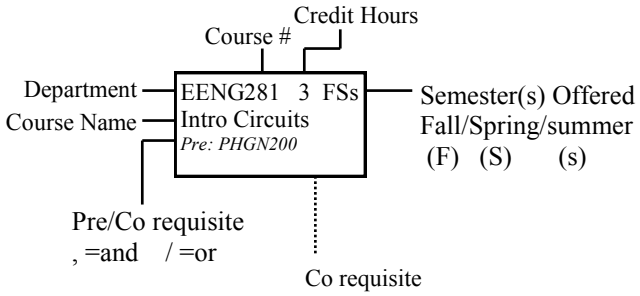
(See back for legend and list of Mechanical Electives)



* See 2015-2016 Undergrad Bulletin for list of acceptable courses. ‡ PHGN215 can be substituted for specified prerequisite. # Biol110, GEGN101 may be taken for the Distributed Science Elective.

Updated: 3/25/15

Legend



Flowchart based on the 15-16 Undergraduate Bulletin

Advising flowcharts are intended as a quick reference only. For full degree details please see the Bulletin applicable to your catalog year.

Total Degree Credits: 134.5

Mechanical Electives

The list of approved Mechanical Engineering electives appears below. Students are required to take three of these courses and at least one must be from List A. In addition to these courses, any graduate course taught by a member of the Mechanical Engineering faculty will also be counted as a Mechanical Elective. Students are welcome to petition to have a course approved. Courses are occasionally added to this list with the most updated version maintained on the Mechanical Engineering website.

List A

MEGN412	Advanced Mechanics of Materials
MEGN416	Engineering Vibrations
MEGN461	Thermodynamics II
MEGN451	Fluid Mechanics II

List B

CEEN301	Fundamentals of Environmental Science & Engineering I
CEEN405	Numerical Methods for Engineers
CEEN406	Finite Element Methods for Engineers
CEEN443	Design of Steel Structures
EBGN321	Engineering Economics
EENG383	Microcomputer Architecture
EENG385	Electronic Devices & Circuits
EENG386	Fundamentals of Engineering Electromagnetics
EENG389	Fundamentals of Electrical Machinery
EENG417	Modern Control Design
EGGN401	Projects for People
MEGN330	Intro. to Biomechanical Engineering
MEGN430	Musculoskeletal Biomechanics
MEGN435	Modeling & Simulation of Human Movement
MEGN436	Computational Biomechanics
MEGN441	Intro. to Robotics
MEGN466	Intro. to Internal Combustion Engines
MEGN485	Manufacturing Optimization w/ Network Models
MEGN493	Engineering Design Optimization
MEGN498	Special Topics in Mechanical Engineering
MEGN5XX	Any MEGN500+ level course
MNGN444	Explosives Engineering II
MTGN450	Statistical Control of Materials Processes
MTGN464/464L	Forging and Forming / Lab
MTGN475/475L	Metallurgy of Welding / Lab
MTGN560	Analysis Metallurgical Failure
PEGN311	Drilling Engineering Principles
PEGN361	Completion Engineering (II)
PEGN419	Well log analysis and formation evaluation
PHGN300	Modern Physics
PHGN350	Intermediate Mechanics
PHGN435	Microelectronics Processing Lab
PHGN440	Solid State Physics