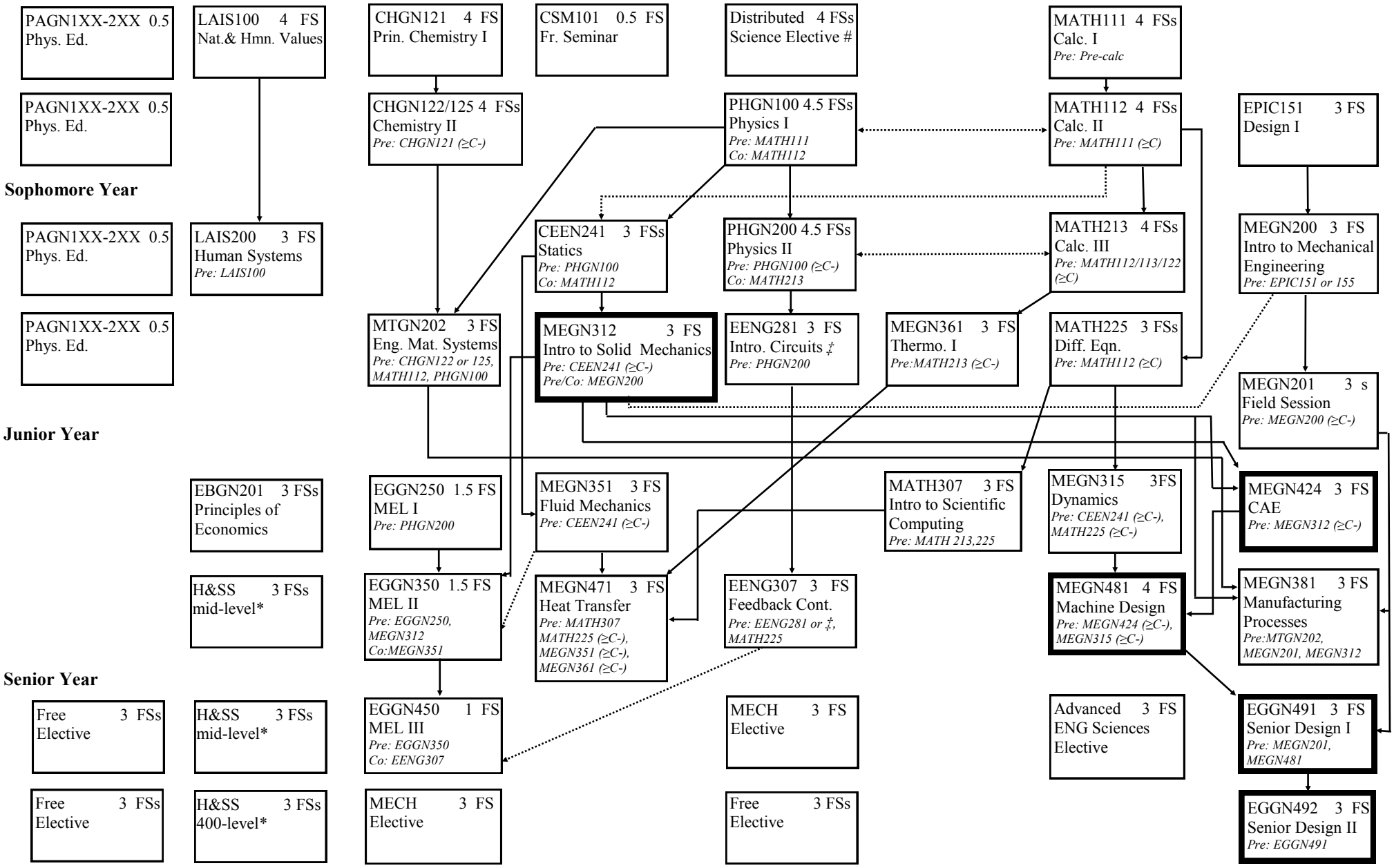
Total Credit Hours
134.5

MECHANICAL ENGINEERING
COLORADO SCHOOL OF MINES

2017-18 Curriculum Flowchart

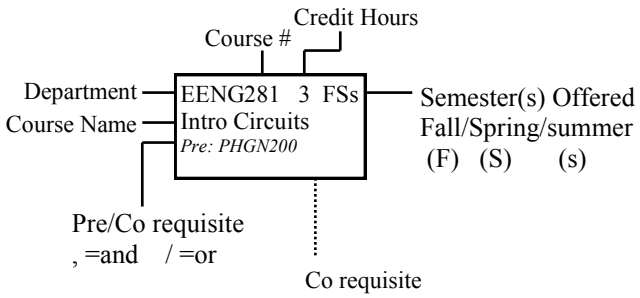


* See 2017-18 Undergrad Bulletin for list of acceptable courses.

‡ PHGN215 can be substituted for specified prerequisite.

CBEN110, GEGN101 may be taken for the Distributed Science Elective.

Legend



5 semester course sequence

Flowchart based on the 17-18 Undergraduate Bulletin

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 **Advanced Engineering Sciences**. In addition to these courses, any graduate course taught by a member of the Mechanical Engineering faculty will also be counted as a Mechanical Engineering Elective.

Advanced Engineering Sciences (must take at least 1)

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

Mechanical Engineering Electives (must take at least 2; can also choose a second course from the Advanced Engineering Sciences list)

CEEN405	Numerical Methods for Engineers
CEEN406	Finite Element Methods for Engineers
EBGN321	Engineering Economics
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
MTGN311 w/ Lab	Structure of Materials
MTGN445 w/ Lab	Mechanical Behavior of Materials
MTGN450	Statistical Control of Materials Processes
MTGN463	Polymer Engineering
MTGN464 w/ Lab	Forging and Forming
MTGN475 w/ Lab	Metallurgy of Welding
NUGN520	Reactor Thermal Hydraulics
PHGN300	Modern Physics
PHGN350	Intermediate Mechanics
PHGN419	Principles of Solar Energy Systems