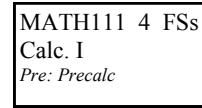
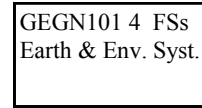
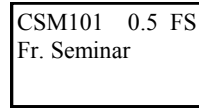
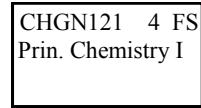
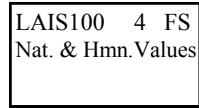
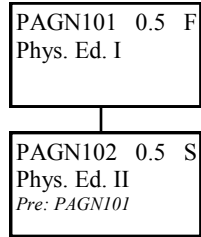


College of Engineering & Computational Sciences

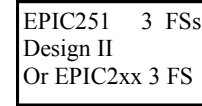
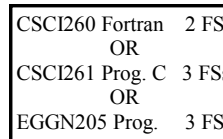
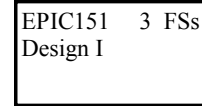
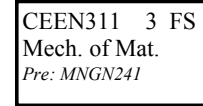
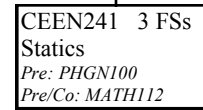
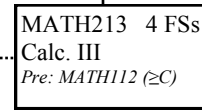
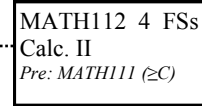
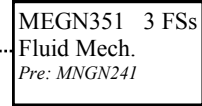
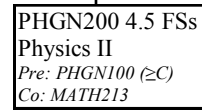
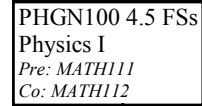
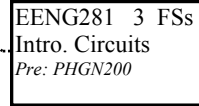
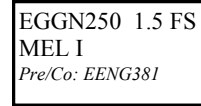
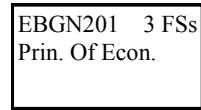
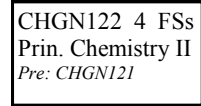
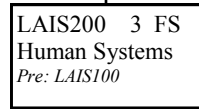
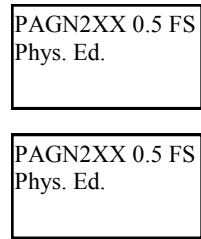
B.S. Civil Engineering ~ Advising Flowchart ~ 2014-2015

(See back for legend and list of Civil Electives)

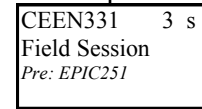
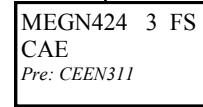
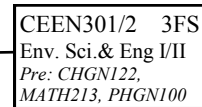
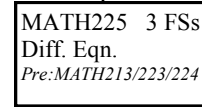
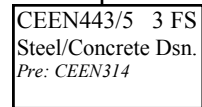
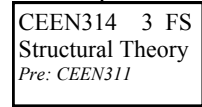
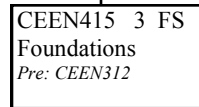
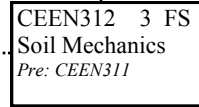
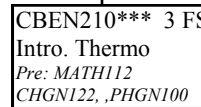
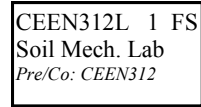
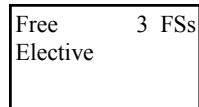
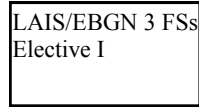
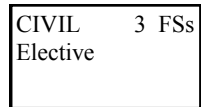
Freshman Year



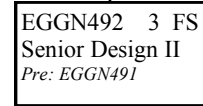
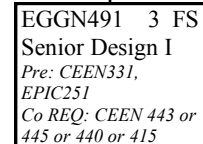
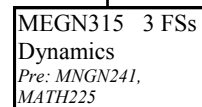
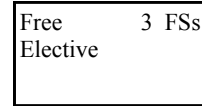
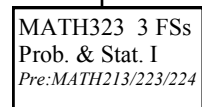
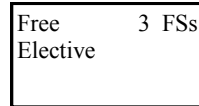
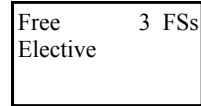
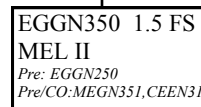
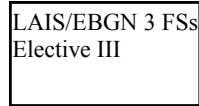
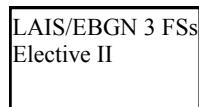
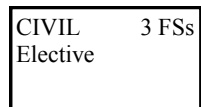
Sophomore Year



Junior Year



Senior Year

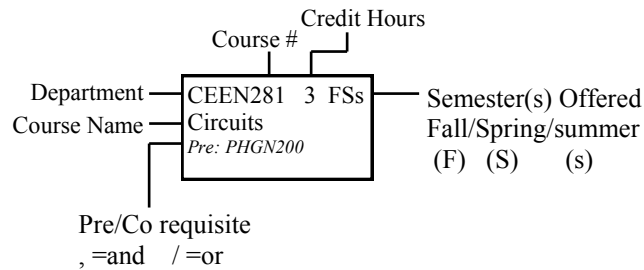


***CHGN209 and MEGN361 may substitute for CBEN210

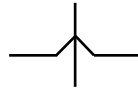
Civil Electives

Civil Engineering students must take one of CEEN 443 or 445 and one of CEEN 301 or 302. These courses may also count as List A Electives if not used as a required course.

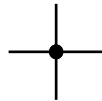
Legend



Shows lines crossing over but not connecting



Shows lines crossing and connecting together



Concurrent Enrollment Allowed
 (Arrow points toward course with pre/co requisite requirement)



- CEEN443 Design of Steel Structures
- CEEN445 Design of Reinforced Concrete Structures
- CEEN301 Fundamentals of Environmental Science and Engineering I
- CEEN302 Fundamentals of Environmental Science and Engineering II

List A Electives - Civil Engineering students must take 3 electives, with two of these from List A.

- CEEN303 Environmental Engineering Laboratory
- CEEN405 Numerical Methods for Engineers
- CEEN406 Finite Element Methods for Engineers
- CEEN410 Advanced Soil Mechanics
- CEEN411 Soil Dynamics
- CEEN423 Surveying II
- CEEN430 Advanced Structural Analysis
- CEEN440 Timber and Masonry Design
- CEEN441 Introduction to the Seismic Design of Structures
- CEEN470 Water and Wastewater Treatment Processes
- CEEN471 Water and Wastewater Treatment Systems Analysis and Design
- CEEN472 Onsite Water Reclamation and Reuse
- CEEN474 Solid Waste Minimization and Recycling
- CEEN475 Site Remediation Engineering
- CEEN477 Sustainable Engineering Design
- CEEN480 Environmental Pollution: Sources, Characteristics, Transport and Fate
- CEEN481 Hydrologic and Water Resources Engineering
- CEEN482 Hydrology and Water Resources Laboratory
- EENG307 Introduction to Feedback Control Systems
- MEGN416 Engineering Vibration
- MEGN451 Fluid Mechanics II
- MNGN321 Introduction to Rock Mechanics

List B Electives

- CEEN476 Pollution Prevention: Fundamentals and Practice
- CEEN477 Sustainable Engineering Design
- CEEN492 Environmental Law
- GEGN466 Groundwater Engineering
- GEGN468 Engineering Geology and Geotechnics
- GEGN473 Geological Engineering Site Investigation
- MNGN404 Tunneling
- MNGN405 Rock Mechanics in Mining
- MNGN406 Design and Support of Underground Excavations