

**FTIC Students**

EGS 1006C Intro to Engr Profession (1) → EGN 1007C Engr Concepts & Methods (1)

**TRANSFER Students**

Additional 2.0 credit hours of Restricted Technical Electives

**Basic Science**  
(EVR 1001, GEO 1200, GEO 2370, GLY 1030, GLY 2038), MET 2104 (3)

CHS 1440 Principles of Chemistry (4)  
PR: 1 year HS Chem or CHM 1032

ENV 3001 Environmental Engineering (3)

CGN 3501C CE Materials (3)

CGN 3090 Engineering Reports & Liability (2)  
CR: Lab Course

CCE 4003 Intro Constr Ind (3)

EGN 3613 Engineering Econ Analy (2)

MAC 2311C Calc/Anl Geom I (4)  
PR: MAC 1105, MAC 1114C and MAC 1140C or passing score on Math Placement Test

MAC 2312 Calc/Anl Geom II (4)

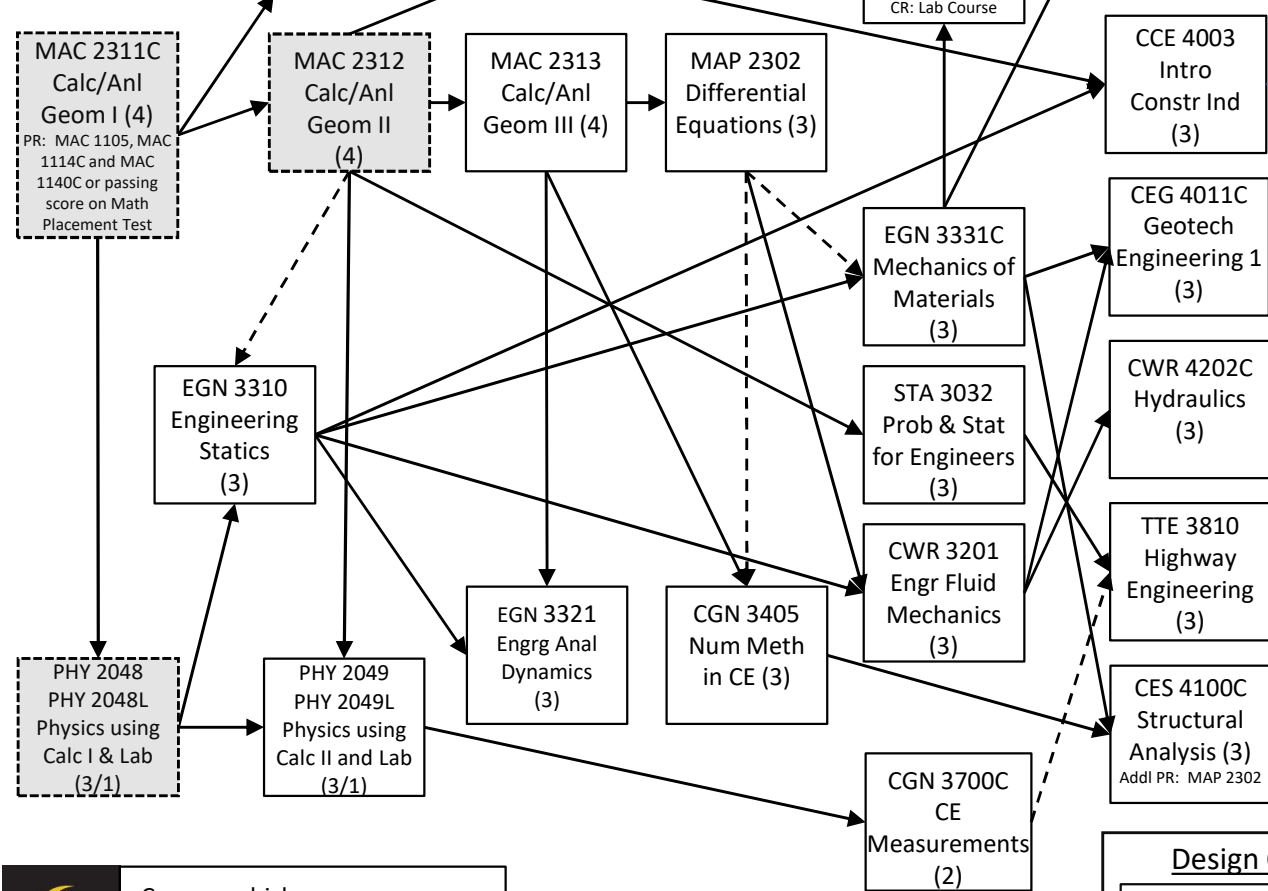
MAC 2313 Calc/Anl Geom III (4)

MAP 2302 Differential Equations (3)

Depth Areas (complete 2 areas)	
Geotech	CEG 4012 – Geotech Engr 2 (3) PR: CEG 4011C
	CEG 4203 – Geotech Methods (3) PR: CGN 3405 & CEG 4011C
Water	CWR 4120 – Hydrology (3) PR: CWR 3201 and STA 3032
	CWR 4124 – Hydrogeology (3) PR: CEG 4011C and CWR 4202C
Transport	TTE 4274 – Trans Engr Systems (3) PR: TTE 3810
	TTE 4300 – Trans Analytics (3) PR: TTE 3810
Structures	CES 4605 – Steel Structures (3) PR: CES 4100C
	CES 4702 – Concrete Structures (3) PR: CES 4100C
Mechanics	EGN 3343 – Thermodynamics (3) PR: EGN 3310 & MAC 2313
	CES 4205 – Structural Mechanics (3) PR: EGN 3331C & CGN 3405

Other Required (General Education/AA Degree) Courses that do not have critical paths

- GEP 1 ENC 1101 (3)
- GEP 2 ENC 1102 (3)
- GEP 3 SPC/COM (3)
- GEP 4 Cultural/Historical I (3)
- GEP 5 Cultural/Historical II (3)
- GEP 6 Cultural/Historical Elective (3)
- GEP 9 ANT/PSY/SYG (3)
- GEP 10 AMH/POS (3)



Courses which are pre-requisites must be completed with a grade of "C" (2.0) or better

**KEY:**  
 Prerequisite → Corequisite - - -> Required to clear "Pending"  

# CIVIL ENGINEERING

## 2024-2025 CATALOG REQUIRED COURSEWORK

All students must complete the Fundamentals of Engineering Exam. More info [www.ncees.org](http://www.ncees.org)

**Design Course (complete 1)**

CES 4743C – Structural Design (3)  
PR: CES 4605, CES 4702 and CGN 3090

CWR 4812C – Water Resources Design (3)  
PR: CWR 4120 and CGN 3090

CEG 4801C – Geotechnical Design (3)  
PR: CEG 4012 and CGN 3090

TTE 4601C – Urban Systems Design (3)  
PR: TTE 4274 and CGN 3090

**Technical Electives (3-5 credit hours)**  
from approved technical elective list on the CECE Advising web course

CGN 4808C CE Capstone Design (3)  
By department override only  
PR: Design Course

**Depth Area Electives (complete 2)**  
Complete any 2 courses from the remaining areas above or choose from: CCE 4034 (PR: TTE 3810); CCE 4004 (PR: CEG 4011C and CES 4100C); ENV 4531 (PR: ENV 3001 and CWR 3201); ENV 4561 (PR: ENV 4531).  
Both courses do not have to be the same area.