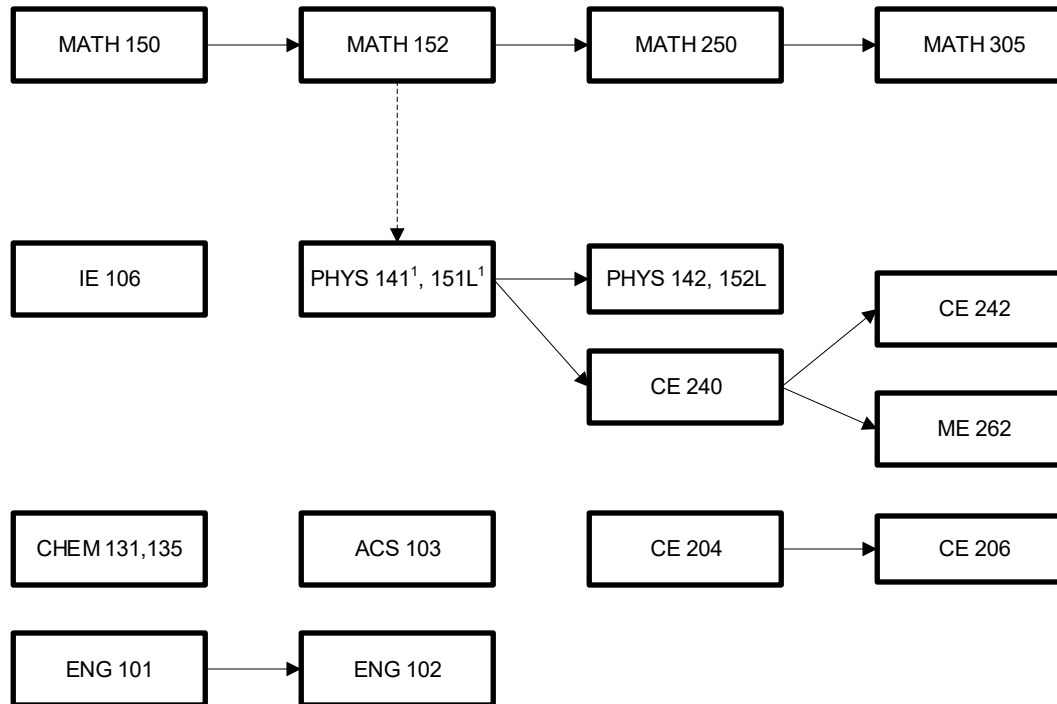


## Lower Division Pre-engineering Courses



**UPPER DIVISION COURSES**  
 (All pre-engineering courses should be completed before a student is allowed to take upper-division civil engineering courses)

**General Studies Requirements**  
 (See Civil Engineering Curriculum Guide for Additional Important Info)  
 ACS 103 (EUSC)  
 ECON 111  
 IE 106 (NFS)  
 Life Science Course (BLS)  
 Fine & Performing Arts (BFPA)  
 Interdisciplinary Studies (IS)(EGC)(EUSC)  
 Health Experience (EH)

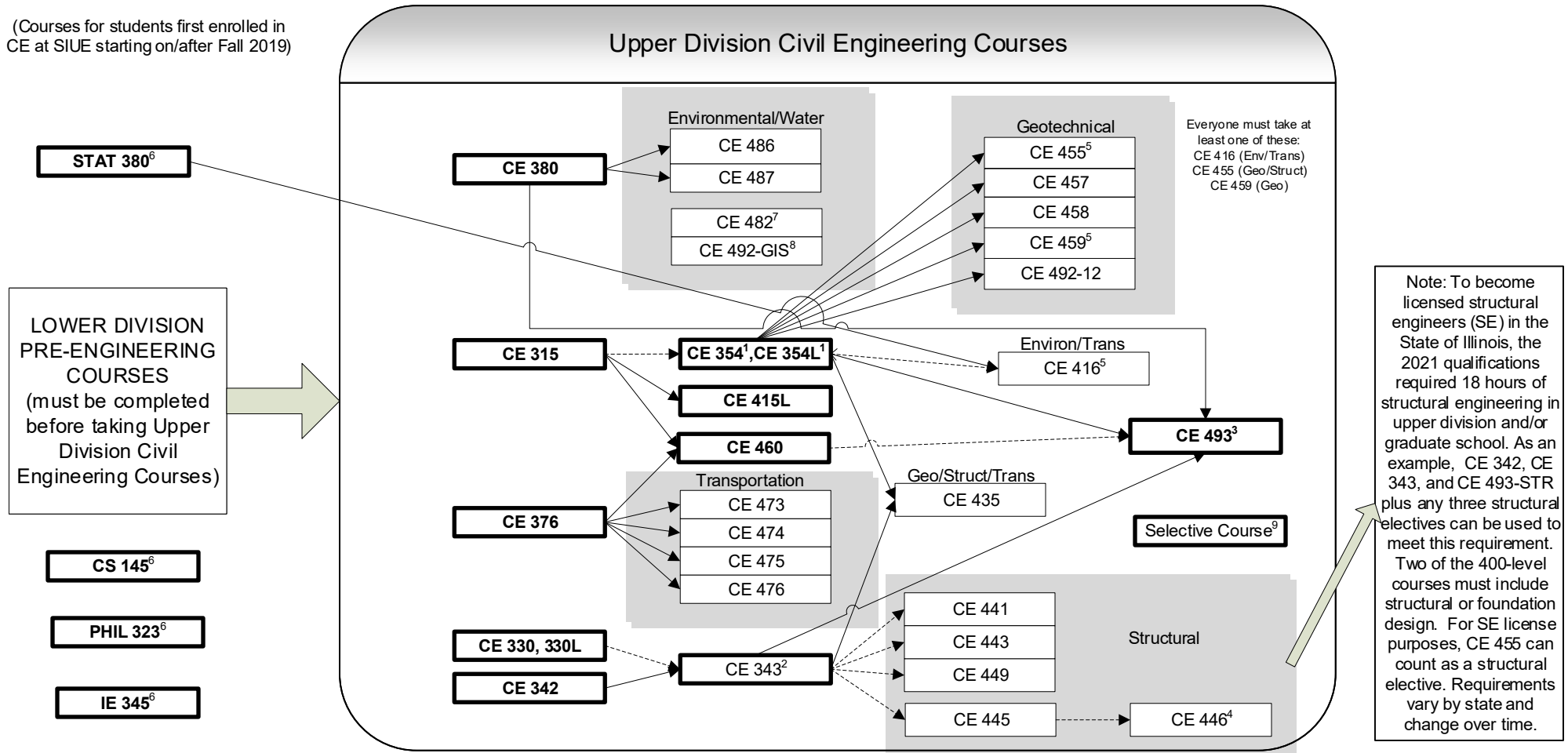
<sup>1</sup> May be taken concurrently with MATH 152 (indicated by dashed arrow).

**Course Key:**

Chem 131,135 Engineering Chemistry and Lab  
 CE 204 Engineering Graphics and CAD  
 CE 206 Engineering Surveying  
 CE 240 Statics  
 CE 242 Mechanics of Solids  
 ECON 111 Macroeconomics

ENG 101, 102 English Comp. I and II  
 MATH 150,152, 250 Calculus I, II, and III  
 MATH 305 Differential Equations  
 ME 262 Dynamics  
 PHYS 141,151L,142,152L Univ. Physics I and II and Labs  
 ACS 103 Interpersonal Communication Skills

(Courses for students first enrolled in CE at SIUE starting on/after Fall 2019)



- 1 May be taken concurrently with CE 315. 2 May be taken concurrently with CE 330.
- 3 May be taken concurrently with 460. 4 May be taken concurrently with CE 445, but CE 343 is a prerequisite and cannot be taken concurrently.
- 5 Either 416, 455, or 459 must be taken as part of the student's program. CE 416 may be taken concurrently with CE 315 and CE 354.
- 6 Courses without a "CE" prefix do not require admission to CE upper division to enroll, but do have their own prerequisites (check with your advisor).
- 7 Prerequisite CE 416 (C or better) or concurrent enrollment.
- 8 Prerequisites CE 315 or CE 416 or concurrent enrollment.
- 9 Selected course from approved list (see advisor for allowed courses and prerequisites).

**Bold** boxes indicate required courses. All other boxes are electives. Students must take four electives, including at least one of CE 416 and CE 455.

Solid arrows indicate prerequisites. Dashed arrows indicate classes may be taken concurrently.

**Course Key:**

CE 315 Fluid Mechanics	CE 415L App. Fluids Lab	CE 449 Adv. Steel Des.	CE 474 Computer Simulation	CE 492-12 Env. Geotech.	CS 145 Intro Comp Sci
CE 330, 330L Eng. Mat.	CE 416 Eng. Hydrology	CE 455 Foundation Design	CE 475 Transp. Planning	CE 493 Engineering Des.	IE 345 Eng. Econ.
CE 342 Struct. Eng. I	CE 435 Pavement Des.	CE 457 Soil Mech in Eng.	CE 476 Traffic Studies		PHIL 323 Eng. Ethics
CE 343 Struct. Engineering II	CE 441 Des. Timber Struc.	CE 458 Geo. Exploration	CE 482-Water Water Res. Mgt		
CE 354, 354L Geo. Eng. & Lab	CE 443 Des. Masonry Struc.	CE 459 Soil Improvement Meth.	CE 486 Waste. Treat. Des.		
CE 376 Transportation	CE 445 Adv. Struct. Analysis	CE 460 Municipal Infra. Des.	CE 487 Water Treat. Des.		
CE 380 Env. Engineering	CE 446 Adv. Conc. Des.	CE 473 Travel Dem. Forecast.	CE 492-GIS in Hyd. Analysis		