THE CITY COLLEGE – SCHOOL OF ENGINEERING
Civil Engineering Curriculum
Fall 2023 – Spring 2024

Math 20100 Calculus I
Pre: Math 19500 (C min.) 4 cr.
Math 21200 Calculus II
Pre: Math 20100 (C min.) 4 cr.
Math 23100 Calculus III
Pre: Math 21200 (C min.) 4 cr.
Math 39100 Differential Equations
Pre: Math 21300 (C min.) 3 cr.

Chem 10301 General Chemistry I
Pre: Math 19500 (C min.) 4 cr.
Chem 10401 General Chemistry II
Pre: Chem 10301 (C min.) 4 cr.

Cse 10200 Introduction to Computing
Pre: Math 19500 (C min.) or Pre/Co: Math 20100 (C min.) 3 cr.

Phys 20700 University Physics I
Pre/Co: Math 21200 4 cr.

Phys 20800 University Physics II
Pre: Phys 20700 Pre/Co: Math 21300 4 cr.

Eng 21007 Writing for Engineering
Pre: Eng 11000 or FIWS 3 cr.

CE 21400 Stress Analysis
Pre: Cse 10200 or ENGR 10200, Phys 20700 (C min.) Pre/Co: CE 10000, Eng 21007, Math 21300 (C min.) 3 cr.

CE 23100 Statics
Pre: Phys 20700 Pre/Co: Math 21300 4 cr.

Math 34600 Linear Algebra
Pre/Co: Math 21300 (C min.) 3 cr.

Math 35000 Fluid Mechanics
Pre: CE 31400 (C min.), Cse 10200 or ENGR 10200, Pre/Co: CE 10100, Math 39100 (C min.) 3 cr.

Math 39100 Differential Equations
Pre: Math 21300 (C min.) 3 cr.

CE 32600 (Fall Only) Transportation Planning
Pre/Co: CE 31500 3 cr.

CE 33200 Mechanics Deformable Bodies
Pre: CE 10000, CE 21300 (C min.), Pre/Co: CE 10100, Math 39100 4 cr.

CE 34400 Reinforced Concrete
Pre: CE 21400 (C min) & CE 34000 3 cr.

CE 345000 Structural Analysis
Pre: CE 33200, CE 20900 (C min.) 3 cr.

CE 36500 Hydraulic Engr.
Pre: CE 35000 (C min.) 3 cr.

CE 372000 Environmental Impact Assessment
Pre: CE 10401 (C min.), CE 21400 (C min.), Pre/Co: CE 10100, Math 39100 3 cr.

CE 374000 Geotechnical Engineering
Pre: major: Chem 10401, CE 21400, CE 35000; ESE major: Chem 10401, ENGR 26400, CE 35000 or ME 35600 or ChE 34100 3 cr.

CE 374000 Senior Design Project
Pre: senior standing Pre/Co: CE 32700, CE 32700, CE 37200, CE 37300, CE 44100 3 cr.

CE 401000 (Spring Only) Review of Civil Eng’g Fundamentals (Pass/Fail)
Pre: Upper junior or senior standing 1 cr.

CE 316000 (Fall Only) Decision & Systems Analysis
Pre: CE 21400 (C min.), Pre/Co: CE 31500 & Math 34600 Pre/Co: CE 32700, CE 36500 & CE 44100 1 cr.

CE 360000 (Fall Only) Fundamentals of CE Problem Solving
Pre: CE 10401 (C min.), Pre/Co: CE 10100, Math 39100 3 cr.

EAS 33800 Global Environ. Haz
Or
Bin 11000 Bio Foundations
Pre: Math 19500 (C min.) 3 cr.

CE 372000 Environmental Impact Assessment
Pre: CE 10401 (C min.), CE 21400 (C min.), Pre/Co: CE 10100, Math 39100 4 cr.

CE 373000 Mechanical Deformable Bodies
Pre: CE 10000, CE 21300 (C min.), Pre/Co: CE 10100, Math 39100 4 cr.

CE 390000 Senior Design Project
Pre: senior standing Pre/Co: CE 3200, CE 32700, CE 32700, CE 37400 & CE 44100 3 cr.

CE 390000 Senior Design Project
Pre: senior standing Pre/Co: CE 3200, CE 32700, CE 32700, CE 37400 & CE 44100 3 cr.

CE 405000 (Spring Only) Civil Engineering Management
Pre: CE 31600, CE 34000 3 cr.

CE 435000 Dynamics of CE Systems
Pre: CE 33200, CE 31500, Math 34600 3 cr.

CE 4401000 (Spring Only) Review of Civil Eng’g Fundamentals (Pass/Fail)
Pre: Upper junior or senior standing 1 cr.

CE 440000 Senior Design Project
Pre: senior standing Pre/Co: CE 32700, CE 32700, CE 37200, CE 37400 & CE 44100 3 cr.

Specialization Core Courses
(Select one of four areas)

Specialization Core Courses
(Select in same area)

Environmental and Water Resources
CE 566 Eng. Hydrology (Pre: CE 214 (C min), CE 365) (S)
CE 583 Air Poll. and Control (Pre: Math 391; co: CE 474) (S)
CE 594 Solid Waste Management (Co: CE 470) (F)

Structures
CE 440 FEA (Pre: CE 315; CE 340, Math 346) (S)
CE 442 Structural Design (Pre: CE 214 (C min), CE 340) (F)

Transportation
CE 450 Traffic Engineering (Pre: CE 327; Co: CE 326, CE 316) (F)
CE 540 Highway Eng. (Pre: CE 327; Co: CE 326, CE 328) (S)

Multidisciplinary
CE 543400 FEA (Pre: CE 315; CE 340, Math 346) (S)
CE 542 Structural Design (Pre: CE 214 (C min), CE 340) (F)

Math 20500 Calculus I
Pre: Math 19500 (C min.) 4 cr.
Math 21200 Calculus II
Pre: Math 20100 (C min.) 4 cr.
Math 23100 Calculus III
Pre: Math 21200 (C min.) 4 cr.

Chm 10401 General Chemistry II
Pre: Chem 10301 (C min.) 4 cr.

Cse 10200 Introduction to Computing
Pre: Math 19500 (C min.) or Pre/Co: Math 20100 (C min.) 3 cr.

This document includes information on the Civil Engineering Curriculum offered by The City College of the City University of New York (CUNY). It provides a comprehensive outline of courses, prerequisites, and graduation requirements for students pursuing a degree in Civil Engineering. The curriculum is divided into pre- and corequisite courses, specialization core courses, and electives. The specialization core courses are further divided into areas such as Environmental and Water Resources, Structures, Transportation, and Multidisciplinary. The electives are also categorized into areas such as Environmental and Water Resources, Structures, Transportation, and Multidisciplinary. The curriculum is designed to provide students with a strong foundation in engineering principles, with opportunities for specialization in areas of interest. This document is essential for students planning to pursue a degree in Civil Engineering and provides a roadmap for their academic journey.