

GENERAL PROGRAM

MUST HAVE A TOTAL OF 18 UNIQUE CREDITS FROM THE FOLLOWING THREE CATEGORIES

- 1) **Emphasis Capstone:** CEE 431, CEE 443, CEE 456, CEE 457 or CEE 481
- 2) **Structural Design:** Take CEE 480 or CEE 481
- 3) **Technical Electives:** Select at least 12 credits from the following list (*At least one † Course-this will provide you with at least two design classes including CEE 480 or CEE 481*):
 - CEE 404† Open Channel Flow (3)
 - CEE 414† Water Resources Engineering II (3)
 - CEE 417† Introduction to Environmental Quality & Analysis (3)
 - CEE 418† Principles of Water Quality Modeling (3)
 - CEE 420† Advanced Portland Cement Concrete (3)
 - CEE 428† Urban Engineering (3)
 - CEE 431† Pavement Design (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 443† Geotechnical Engineering: Foundations (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 445† Geotechnical Engineering: Retaining Structures (3)
 - CEE 446† Geosynthetics (3)
 - CEE 456† Design of Water Treatment Facilities (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 457† Design of Wastewater Treatment Facilities (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 459R† Hazardous & Solid Waste Management & Control (3)
 - CEE 463† Traffic Engineering (3)
 - CEE 480† Concrete Structure Design (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 481† Structural Steel Design (3) – *be sure you do not double count towards 18 unique credits*
 - CEE 482† Design of Timber Structures (3)
 - CEE 483† Prestressed Concrete Design (3)
 - CEE 484† Bridge Engineering I (3)
 - CEE 486† Structural Analysis II (3)
 - CEE 487† Reinforced Concrete Design II (3)
 - CEE 488† Advanced Structural Steel Design (3)
 - CEE 411 Environmental Law (3)
 - CEE 453 Environmental Microbiology (3)
 - CEE 458 Fundamentals of Environmental Chemistry (3)
 - CEE 460 Construction Engineering (3)
 - CEE 479 Earthquake Engineering (3)
 - EE 220 Circuits I (3) – *If not taken as a part of the general BS requirements.*
 - ME 311 Engineering Thermodynamics I (3) – *If not taken as a part of the general BS requirements.*

ENVIRONMENTAL EMPHASIS

Courses Changes from General Program: Take CHEM 220A instead of CEE 371

Restricted Science Elective: Take CHEM 202 (CHEM 122 accepted)

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 - CEE 417† Introduction to Environmental Quality & Analysis (3)
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 - CEE 428† Urban Engineering (3)
 - CEE 456† Design of Water Treatment Facilities (3)
 - CEE 457† Design of Wastewater Treatment Facilities (3)
 - CEE 459 R† Hazardous & Solid Waste Management & Control (3)
 - CEE 411 Environmental Law (3)
 - CEE 453 Environmental Microbiology (3)
 - CEE 458 Fundamentals of Environmental Chemistry (3)
 - ATMS 412 Introduction to Air Pollution (3)

CEE 461P, 462P, 463P, 464P, 465P, 466P, 467P and 468P are not permitted to be used as Technical Electives for a BS Degree in Civil Engineering or Environmental Engineering. These courses are only applicable to the Post Baccalaureate Degree Programs in Construction Engineering and Construction Management.