ENVIRONMENTAL ENGINEERING
APPROVED ELECTIVES & CORE CURRICULUM

Math/Science Electives (3 hours)

***Courses outside the CAEE department may have additional restrictions, prerequisites vary. Please contact these academic advising offices directly to see if registration is available***

Biology:

BIO 311D – Introductory Biology II
BIO 325 - Genetics

Chemistry:

CH 328N – Organic Chemistry II
CH 431 – Inorganic Chemistry
CH 353 – Physical Chemistry I
CH 456 – Analytical Chemistry

Engineering Mechanics:

E M 319 – Mechanics of Solids

Geology:

GEO 316P – Sedimentary Rocks
GEO 338J – Marine Geology
GEO 340T - Geoclimatology
GEO 341- Mineral Resources, Society and the Environment
GEO 341G - Geomicrobiology
GEO 346C – Introduction to Physical and Chemical Hydrogeology
GEO 347D – Global Warming
GEO 347P – Climate System Physics

Mathematics:

M 427L – Advanced Calculus for Applications II
M 361 – Theory of Functions of a Complex Variable
M 362K – Probability I
M 364K - Vector and Tensor Analysis I
M372 – Fourier Series and Boundary Value Problems,
M 372K - Partial Differential Equations and Applications
M 374 – Fourier and Laplace Transforms

Physics:

PHY 341 – Topic 1 – Energy Production

Public Health:

PBH 338 – Environmental Health
PBH 354 - Epidemiology

Biochemistry:

BCH 339F Foundations in Biochemistry or 369 – Fundamentals of Biochemistry
BCH 350 – Quantitative Analysis of Cellular and Molecular Biology

NOTE: BCH 339F and BCH 369 are equivalent courses. Only ONE may count toward the degree.

Marine Science:

MNS 320 – Marine Ecology
MNS 440 – Limnology and Oceanography

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Approved Engineering Electives (6 hours)

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Civil Engineering:

All Base Level, Level 1 and Level II Electives (that are not considered environmental engineering electives)

Base Level Courses:

- CE 321 – Transportation Systems
- CE 324P – Properties and Behaviors of Engineering Materials
- CE 329 – Structural Analysis

Engineering Mechanics:

- E M 311M – Dynamics
- E M 319 – Mechanics of Solids
- E M 339 - Advanced Strength of Materials

Mechanical Engineering:

- M E 339 - Heat Transfer
- M E 363L - Energy Systems Laboratory
- M E 374S - Solar Energy Systems Design
- M E 354 - Introduction to Biomechanical Engineering
- M E 361E - Nuclear Reactor Operations and Engineering.
- M E 369L - Introduction to Computational Fluid Dynamics

Chemical Engineering:

- CHE 311 - Engineering Sustainable Technologies
- CHE 339 - Introduction to Biochemical Engineering.
- CHE 339P - Introduction to Biological Physics.
- CHE 359 - Energy Technology and Policy.

Core Curriculum Requirements

For a complete list of approved core curriculum courses please visit: [www.utexas.edu/ugs/core/requirements](http://www.utexas.edu/ugs/core/requirements)

For a complete list of approved core curriculum courses offered in a specific semester please consult the Course Schedule. [http://registrar.utexas.edu/schedules](http://registrar.utexas.edu/schedules)

For clarification or questions regarding the core curriculum please visit the Advising Office in ECJ 4.200.

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