ENVIRONMENTAL ENGINEERING
APPROVED ELECTIVES & CORE CURRICULUM

PENDING APPROVAL OF CURRICULUM COMMITTEE. SEE YOUR ACADEMIC ADVISOR FOR FINAL APPROVAL.

Math/Science Electives (3 hours)

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

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 340L – Matrices and Matrix Calculations
- M 361 – Theory of Functions of a Complex Variable
- M 362K – Probability I
- M 364K – Vector and Tensor Analysis I
- M 372 – Fourier Series and Boundary Value Problems,
- M 372K – Partial Differential Equations and Applications
- M 374 – Fourier and Laplace Transforms
- 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)**

**Civil Engineering:**
- All Base Level, Level 1 and Level II Electives (that are not considered environmental engineering electives)

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

**Engineering Mechanics:**
- E M 311M - Dynamics
- 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.

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**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.