ENVIRONMENTAL ENGINEERING
APPROVED ELECTIVES & CORE CURRICULUM

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 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)

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.

Core Curriculum Requirements

For a complete list of approved core curriculum courses please visit:
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

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

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