B.A. Civil and Environmental Engineering

The B.A. degree in Civil and Environmental Engineering is designed to provide flexibility to students to chose either a Civil (Track C) or Environmental (Track E) Engineering emphasis along with topics across any discipline at Rice University. Each Track is to be tailored to the specific needs of each student by discussions with and approval by a CEE departmental Track advisor. An advisor will be assigned by the CEE department Chair, normally during the first year of study. Five core courses in each Track plus seven courses in a focused specialty area of study are required (see below for examples areas); total core and specialty area requirements are approximately 37 hours. In addition, each student is responsible for satisfying the university distribution requirements (24 hours) and additional electives for a total of 120 hours for graduation with a BA in Civil and Environmental Engineering. **Although not required, students are encouraged to double major in their focus specialty area.**

The coherent and complete core curriculum is designed to give Rice Undergraduate students a consistent technological literacy through the lens of Civil and Environmental Engineering and to prepare students for graduate school in engineering, various sciences (depending upon focus), economics, business MBA, political science, law, or medicine. Select students will be invited to finish an accelerated MS/PhD degree in the CEE Department (talk with your advisor or department chair for details). Those students who want to obtain an ABET accredited engineering degree must follow a BS degree program in one of the engineering disciplines, including Civil Engineering.

A student must demonstrate proficiency in the basic concepts of mathematics, computation, chemistry, and physics. Generally, this will require that these subjects were studied previously, e.g., AP exams, or concurrent enrollment with CEVE 101, 307 or 211.

Seven (7) courses from approved electives must include 4 courses from 1 specific focus area; 4 of these 7 courses must be 300 level, or above, and 2 of these upper-division courses must be from the CEE curriculum.

BA Civil and Environmental Engineering:

Track C: Civil Core Curriculum*

CEVE 101	Fundamentals of Civil and Env. Eng.	3
CEVE 211	Engineering Mechanics	3
CEVE 310	Principles of Environmental Engineering	3
CEVE 311+312	Mechanics of Solids & Structures + lab	4
CEVE 363	Applied Fluid Mechanics	3

** Students taking the Civil Core Curriculum, Track C, should check the General Announcements for specific prerequisites in MATH, PHYS, COMP and CAAM.*

Track E: Environmental Core Curriculum

CEVE 101	Fundamentals of Civil and Env. Eng.	3
CEVE 307	Energy and the Environment	3
CEVE 310	Principles of Environmental Engineering	3
CEVE 401	Chemistry for Env. Eng. and Sciences	4
CEVE 412	Hydrology and Watershed Analysis	3

Example focus specialty areas might include the following. These are only example focus areas; students are encouraged to prepare their own related to their career objectives in consultation with and approval by their CEE faculty advisor.

1. Environmental Science and Engineering; 2. Civil Engineering; 3. Biology; 4. Chemical Engineering; 5. Chemistry; 6. Economics; 7. Economics; or 8. Management.

Contact Dr. Satish Nagarajaiah (Civil) or Dr. Mason Tomson (Environmental) for more information on the B.A.

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Overall Hours

Core	16 hrs
Focus Specialty Area	21 hrs
Distribution	24 hrs
Free Electives and other courses	59 hrs
Total	120 hrs

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Department of Civil and Environmental Engineering - Rice University MS-519, 6100 Main St, Houston, Texas 77005
Phone: 713-348-4949 Fax: 713-348-5268 ceve@rice.edu