

B.A. Civil and Environmental Engineering

The B.A. degree in Civil and Environmental Engineering is designed to provide flexibility to students to choose 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. Either six (6) core courses in Track C or five (5) core courses in Track E, plus seven courses in a focused specialty area of study are required (see below for examples areas). The total core and specialty area requirements are approximately 12-13 courses (37 hours). In addition, each student is responsible for satisfying the university distribution requirement of 8 courses (24 hours), Math and Science requirements of 10-11 courses (25 hours) and additional free electives for a total of (122 hours) for graduation with a BA in Civil and Environmental Engineering. **Although not required, students are encouraged to double major in their Specialty Focus Area.**

The seven (7) Specialty Focus Area courses must include 4 courses from 1 specific focus area; 4 must be 300 level, or above, and 2 of these upper-division courses must be from the CEE curriculum.

Students must complete a minimum of 10 courses (25 hours) of General Math & Science requirements. Please refer to the General Announcements for General Math and Science course BA requirements.

This 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). Students desiring an ABET accredited engineering degree must follow a BS degree program in one of the engineering disciplines, including Civil Engineering.

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 304	Structural Analysis	3

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	Environmental Chemistry & Lab	4
CEVE 412	Hydrology and Water Resources Engineering	3

Example **Specialty Focus 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. 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
Specialty Focus Area	21 hrs
General Math & Science	25 hrs
Distribution	24 hrs
Free Electives and LPAP	36 hrs
Total	122 hrs



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