

**Proposed Draft CE Program Criteria**  
**As approved on first reading by the ABET Engineering Accreditation Council on 7/16/22**

**NOTE: These criteria are NOT in effect as of July 2022. This is a draft available for informational purposes only.**

These program criteria apply to engineering programs that include “civil” or similar modifiers in their titles.

1) Curriculum

The curriculum must include:

- a) Application of:
  - i) mathematics through differential equations, probability and statistics, calculus-based physics, chemistry, and either computer science, data science, or an additional area of basic science
  - ii) engineering mechanics, materials science, and numerical methods relevant to civil engineering
  - iii) principles of sustainability, risk, resilience, diversity, equity, and inclusion to civil engineering problems
  - iv) the engineering design process in at least two civil engineering contexts
  - v) an engineering code of ethics to ethical dilemmas
- b) Solution of complex engineering problems in at least four specialty areas appropriate to civil engineering
- c) Conduct of experiments in at least two civil engineering contexts and reporting of results
- d) Explanation of:
  - i) concepts and principles in project management and engineering economics
  - ii) professional attitudes and responsibilities of a civil engineer, including licensure and safety

2) Faculty

The program must demonstrate that faculty teaching courses that are primarily design in content are qualified to teach the subject matter by virtue of professional licensure, or by education and design experience. The program must demonstrate that it is not critically dependent on one individual.