

ABET Breadth of Knowledge

1

Multiple Choice 1 point

What does ABET define as "breadth of knowledge" in civil engineering education?

- ☐ Exclusive focus on technical design principles
- ☐ n-depth expertise in one technical area
- ☐ Knowledge across multiple disciplines to address complex challenges
- ☐ Specialization in mathematics and natural sciences

2

Multiple Choice 1 point

Which of the following is one of ABET's seven broad student outcomes?

- ☐ Mastering advanced programming languages for design
- ☐ Achieving full professional licensure before graduation
- ☐ Ability to work effectively in multidisciplinary teams
- ☐ Conducting feasibility studies on government contracts

3

Multiple Choice 1 point

What is an example of the technical breadth requirement in ABET's criteria?

- ☐ Proficiency in designing a specific structural component only
- ☐ Advanced knowledge in one field of physics or chemistry
- ☐ Exclusive focus on geotechnical engineering
- ☐ Mastery of engineering mechanics and ability to apply it to various civil engineering problems

4

Multiple Choice 1 point

Why are humanities and social sciences important in civil engineering education?

- ☐ They provide context for societal needs and improve communication with stakeholders.
- ☐ They focus solely on public relations and marketing.
- ☐ They fulfill elective requirements unrelated to engineering practice.
- ☐ They replace technical coursework for non-engineering students.

What is a core example of ABET's focus on ethical responsibility in engineering?

- ☐ Exclusively focusing on technical outcomes without public input
- ☐ Ensuring budget constraints are prioritized over safety
- ☐ Reducing communication with stakeholders to streamline designs
- ☐ Adhering to sustainable practices while designing transportation systems