

## Suggested Guidelines for E-Course Development

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UGSC Goals: Collaborate professionally and ethically, identify and discuss ethical issues.

ABET Goals (2018): [Students should demonstrate] an understanding of professional, ethical, legal, security and social issues and responsibilities.

### Student Learning Objectives:

**Main Goal:** Student should demonstrate an understanding of professional and ethical responsibility and relevant ethical and social issues in their field, and demonstrate a proficiency in discussing these topics.

This includes the following elements:

1. Ethical awareness : The ability to perceive ethical issues embedded in complex, concrete situations
2. Ethical evaluation and discussion: The ability to assess an action, situation, product or process in terms of different ethical approaches or frameworks, and communicate their thought process and reasoning to others.
3. Ethical integration: The ability to integrate ethical consideration into an activity so that these play an essential, constitutive role in the product. <sup>1</sup>

### E-Course Criteria (Courses including an ethics module should outline how they will meet these criteria in syllabus)

*Focus on learning objectives will vary by course level. For instance, 100 level courses will likely focus more on learning objectives 1 and 2, while 300-level course will focus more on 3.*

- Students must learn about relevant ethical topics integral to course learning outcomes and tools/strategies for addressing ethical issues, such as ethics codes, guidelines and relevant laws, ethical theories and frameworks.
- Courses must include interactive, discussion-based activities that require students to use tools to assess an ethical case study/issue, and communicate their thought process and reasoning to others.
- Courses must include an activity (paper, final project, presentation) that asks them to integrate ethical considerations so that these play an essential constitutive role in the final product.

### Undergraduate Course Requirements: 4 courses/12 credit hours

- 12 credit hours in major courses (Ethics course or course that includes an ethics module that meets e-course requirements (ITP, and technical courses/capstone course).
- 12 credit hours in non-major courses (Ethics course or course that includes an ethics module meets e-course requirements).

### Possible accompanying activities/resources for E-course development:

- Faculty training/mentoring in ethics education (with pilot group to start).
- Repository of research, knowledge and innovation (exists in [Ethics Education Library](#))
- Development of ethics integration modules that faculty can use and adapt for e-courses.
- Outside ethics activities (lectures, workshops, etc.) co-organized by departments/Ethics Center.

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<sup>1</sup> Learning Criteria adapted from Cruz, J.A., and W.J. Frey. 2003. An effective strategy for integrating ethics across the curriculum in engineering: an ABET 2000 challenge. *Science and Engineering Ethics* 9: 543–568.