

TUES: Positioning Engineers for Urban Sustainability Transition Strategy Development

Vertical Integration Course Evaluation Pre-Survey for CON 252 (Construction Materials, Methods, and Equipment)

1. Based on credit hours, you are currently a:
 - a. PhD student
 - b. MA student
 - c. MS student
 - d. MSE student
 - e. Undergraduate – Senior
 - f. Undergraduate – Junior
 - g. Undergraduate – Sophomore
 - h. Undergraduate – Freshman

2. What is your current major, if you have declared one? Please select all that apply.
 - a. Computer science
 - b. Construction management
 - c. Engineering - Aerospace
 - d. Engineering - Biomedical
 - e. Engineering - Civil
 - f. Engineering - Civil and environmental
 - g. Engineering - Chemical
 - h. Engineering - Computer systems
 - i. Engineering - Construction
 - j. Engineering - Environmental
 - k. Engineering - Electrical
 - l. Engineering - Geotechnical
 - m. Engineering - Industrial
 - n. Engineering - Material science
 - o. Engineering - Mechanical
 - p. Engineering - Structural
 - q. Engineering - Transportation
 - r. Geography
 - s. Planning
 - t. Sustainability
 - u. Other (please specify): _____

3. What is your current minor, if you have declared one?

4. If you have an undeclared minor or focus, what is it?

5. Please rate your current skill level for each of the following skill areas. (Expert, Advanced, Proficient, Beginner, No knowledge)
- a. Technical communication (i.e., talking with someone from within your field of expertise)
 - b. Interdisciplinary communication (i.e., talking about technical details with someone from outside of your field of expertise)
 - c. Identifying the contributions of fields outside your expertise to solving a problem
 - d. Understanding the perspectives of different fields on a problem
 - e. Working with community stakeholders
 - f. Integrating information from team members
 - g. Explaining the technical terms of building design and construction
 - h. Summarizing the basic processes of designing and constructing a building
 - i. Explaining the most common systems of excavation and foundation building
 - j. Explaining the most common types of building structural systems
 - k. Describing systems used to keep structures free from water infiltration
 - l. Summarizing mechanical, electrical, plumbing, and vertical transportation systems
 - m. Explaining the advantages of different construction method and material options
6. To what extent do you anticipate gaining the following skills from participating in CON 252? (Very much, Quite a bit, Some, Very little, Not at all)
- a. Technical communication (i.e., talking with someone from within your field of expertise)
 - b. Interdisciplinary communication (i.e., talking about technical details with someone from outside of your field of expertise)
 - c. Identifying the contributions of fields outside your expertise to solving a problem
 - d. Understanding the perspectives of different fields on a problem
 - e. Working with community stakeholders
 - f. Integrating information from team members
 - g. Explaining the technical terms of building design and construction
 - h. Summarizing the basic processes of designing and constructing a building
 - i. Explaining the most common systems of excavation and foundation building
 - j. Explaining the most common types of building structural systems
 - k. Describing systems used to keep structures free from water infiltration
 - l. Summarizing mechanical, electrical, plumbing, and vertical transportation systems
 - m. Explaining the advantages of different construction method and material options
7. How confident are you that you could...? (Very confident, Pretty confident, Somewhat confident, Not at all confident)
- a. Work as part of an interdisciplinary team
 - b. Work independently
 - c. Provide feedback to team members
 - d. Receive criticism from team members

- e. Communicate technical information to people within your field of expertise
 - f. Communicate technical information to people outside of your field of expertise
8. How confident are you that you could...? (Very confident, Pretty confident, Somewhat confident, Not at all confident)
- a. Advise students within your course on collecting high quality scientific information
 - b. Advise students in other courses on collecting high quality scientific information
 - c. Work collaboratively as part of a research team
 - d. Provide information to other students to help them complete their work
 - e. Synthesize information from multiple sources, such as peers and published research
9. In what academic year do you expect to graduate?
- a. 2014-2015
 - b. 2015-2016
 - c. 2016-2017
 - d. 2017-2018
 - e. 2018-2019
 - f. 2019-2020
 - g. Beyond 2020
10. Do you intend to pursue additional degrees after you complete your current degree program?
- a. Yes
 - b. No
11. [If yes] What degree?
- a. Bachelor's
 - b. Master's
 - c. Doctorate (e.g., PhD, EdD)
 - d. Medical Doctorate (e.g., MD, DVM, DNP)
 - e. Professional Degree (e.g., MBA, JD, PE)
 - f. Other (please describe): _____
12. In what sector do you anticipate working following graduation (or following any planned further education)?
- a. Academic
 - b. Government
 - c. Private for-profit
 - d. Private non-profit
 - e. Other (please describe): _____
13. To what extent do you think your experience participating in CON 252 will influence your career goals?

- a. Very much
- b. Quite a bit
- c. Some
- d. Very little
- e. Not at all

14. Please explain why think your experience will or will not influence your career goals.

15. What advice did you receive from other students who have taken CON 252 in prior semesters?

16. Please use this space to share any other comments you have about CON 252.

17. Please create a username by writing your favorite color and favorite food (e.g. blue tuna or red cookies). We will use this question only to make sure we don't have duplicates. We will not record your information.

Thank you for completing this survey.