

TUES: Positioning Engineers for Urban Sustainability Transition Strategy Development

Vertical Integration Course Evaluation Post-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. Have your experiences in CON 252 changed your plans to stay in this major?
 - a. Yes
 - b. No

6. [If Yes] How have your experiences changed your plans to stay in your major?
 - a. I am more likely to stay in this major
 - b. I'm more likely to leave this major

7. The instructor has made an effort to improve vertical integration between curriculum in lower division courses and upper division courses to benefit student learning. Were you aware of the vertical integration component of this course?
 - a. Yes
 - b. No

8. Reflecting on your experience within the course, did you feel the vertical integration?
 - a. Yes
 - b. No

9. [If yes] How do you think vertical integration impacted your learning in the course?

10. 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

11. To what extent have your skills in each of the following areas improved as a result of 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
12. 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
13. To what extent has your confidence in each of the following areas improved as a result of participating in CON 252? (Very much, Quite a bit, Some, Very little, Not at all)
- 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
14. To what extent have your skills in each of the following areas improved as a result of participating in Urban Infrastructure Anatomy and Sustainable Development? (Very much, Quite a bit, Some, Very little, Not at all)
- a. Advising students within your course on collecting high quality scientific information
 - b. Advising students in other courses on collecting high quality scientific information
 - c. Working collaboratively as part of a research team
 - d. Providing information to other students to help them complete their work
 - e. Synthesizing information from multiple sources, such as peers and published research

15. To what extent has your confidence in each of the following areas improved as a result of participating in Urban Infrastructure Anatomy and Sustainable Development? (Very much, Quite a bit, Some, Very little, Not at all)
- Advising students within your course on collecting high quality scientific information
 - Advising students in other courses on collecting high quality scientific information
 - Working collaboratively as part of a research team
 - Providing information to other students to help them complete their work
 - Synthesizing information from multiple sources, such as peers and published research
16. What interactions and/or activities did you complete as part of the vertical integration with Dr. Chester's Urban Infrastructure Anatomy and Sustainable Development course?
- Emailed students within your course
 - Emailed students from Dr. Chester's course
 - Met with students within your course
 - Met with students from Dr. Chester's course
17. Do you intend to pursue additional degrees after you complete your current degree program?
- Yes
 - No
18. [If yes] What degree?
- Bachelor's
 - Master's
 - Doctorate (e.g., PhD, EdD)
 - Medical Doctorate (e.g., MD, DVM, DNP)
 - Professional Degree (e.g., MBA, JD, PE)
 - Other (please describe): _____
19. Has interacting with Urban Infrastructure Anatomy and Sustainable Development students through this course influenced your plans for further schooling?
- Yes
 - No
20. [If Yes] How has interacting with Urban Infrastructure Anatomy and Sustainable Development students through this course influenced your plans for further schooling?
21. In what sector do you anticipate working following graduation or the conclusion of any planned further education? Please select all that apply.
- Academic
 - Government
 - Private for-profit
 - Private non-profit

- e. Other (please describe): _____
22. To what extent do you think your experience participating in CON 252 influenced your career goals?
- a. Very much
 - b. Quite a bit
 - c. Some
 - d. Very little
 - e. Not at all
23. Please explain why you think your experience influenced your career goals.
24. Are there any aspects of CON 252 that think should be improved based upon your experience in the course to date?
25. What advice would you give a student who enrolls in CON 252 for next semester/year?
26. Please use this space to share any other comments you have about CON 252.
27. 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.