



Department of Civil Engineering and Surveying University of Puerto Rico Mayaguez Campus



GRADUATING STUDENT EXIT SURVEY

(Part I – to be filled at end of CAPSTONE Course)

Year _____

Program Studied: ___ Civil Engineering ___ Surveying & Topography

Rank your area of professional interest: (First priority = 1)

- | | |
|-------------------|--------------------------|
| ___ Structures | ___ Construction |
| ___ Environmental | ___ Surveying/Topography |
| ___ Materials | ___ Multidisciplinary |

What is your situation with the fundamental of engineering exam?

- | | |
|-------------------------------------|--------------------------------------|
| ___ Have not taken. | ___ Taken once and passed. |
| ___ Taken once and failed. | ___ Taken more than once and passed. |
| ___ Taken more than once and failed | ___ Expect to take it next year. |

Evaluation of the fulfillment of the Profile of the Graduating Students:

Instructions: Use the following scale to indicate your agreement with the following:

- 1 - Very dissatisfied** **2 – Dissatisfied** **3 – Satisfied** **4 - Somewhat more than satisfied**
5 - Expectations surpassed **N/A – Not Applicable or Not Able to Answer**

| | More <= Satisfaction = > Less | | | | | N/A |
|--|-------------------------------|---|---|---|---|-----|
| | 5 | 4 | 3 | 2 | 1 | |
| 1. Can you understand and apply the following knowledge? | | | | | | |
| a. Mathematics (through differential calculus) | | | | | | |
| b. Probability and statistics | | | | | | |
| c. General chemistry | | | | | | |
| d. Calculus based physics | | | | | | |
| e. Other sciences | | | | | | |
| 2. Are you proficient in the following major civil engineering areas? | | | | | | |
| a. Structural and Materials | | | | | | |
| b. Geotechnical | | | | | | |
| c. Environmental | | | | | | |
| d. Water resources | | | | | | |
| e. Transportation | | | | | | |
| f. Construction management | | | | | | |
| 3. Can you conduct laboratory experiments and critically analyze and interpret data in the following areas? | | | | | | |
| a. Structural and Materials | | | | | | |
| b. Geotechnical | | | | | | |
| c. Environmental | | | | | | |
| d. Water resources | | | | | | |
| e. Transportation | | | | | | |
| f. Construction management | | | | | | |

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| 4. Have you learned to design civil engineering systems, components or processes by means of design experiences integrated throughout the professional content of the curriculum? | | | | | | | |
| a. Systems | | | | | | | |
| b. Components | | | | | | | |
| c. Processes | | | | | | | |
| 5. Which of the following skills, tools and techniques needed for civil engineering practice are you proficient in? | | | | | | | |
| a. Oral communication skills in Spanish | | | | | | | |
| b. Written communication skills in Spanish | | | | | | | |
| c. Oral communication skills in English | | | | | | | |
| d. Written communication skills in English | | | | | | | |
| e. Drawing skills for communicating engineering ideas | | | | | | | |
| f. Use of computers, internet, word processing, spreadsheet, database programs | | | | | | | |
| g. Probability and statistics | | | | | | | |
| h. Computer programming | | | | | | | |
| i. Participation in professional organizations | | | | | | | |
| j. Professional laws, regulations and ethics codes | | | | | | | |
| k. Application of computer professional programs to solve civil engineering problems | | | | | | | |
| l. Knowledge of how to obtain information on laws, regulations and construction codes affecting the practice of civil engineering. | | | | | | | |
| m. Stress management | | | | | | | |
| n. Values | | | | | | | |
| o. Meeting skills | | | | | | | |
| p. Critical thinking | | | | | | | |
| 6. Can you work in a collaborative multi-disciplinary professional work group assuming the following roles when needed? | | | | | | | |
| a. Leader | | | | | | | |
| b. Follower | | | | | | | |
| c. Parliamentarian | | | | | | | |
| d. Time-manager | | | | | | | |
| e. Recorder (note-taker) | | | | | | | |
| 7. Can you: | | | | | | | |
| a. Identify civil engineering problems? | | | | | | | |
| b. Formulate civil engineering problems? | | | | | | | |
| c. Solve civil engineering problems? | | | | | | | |
| 8a. Can you communicate effectively in Spanish? | | | | | | | |
| 8b. Can you communicate effectively in English? | | | | | | | |
| 9. Can you understand professional practice and ethical responsibility issues such as: | | | | | | | |
| a. Procurement of work | | | | | | | |
| b. Bidding versus quality – based selection processes | | | | | | | |
| c. How the design and construction professionals interact to construct a project | | | | | | | |
| d. The importance of professional licensure and continuing education | | | | | | | |
| e. Other professional, social, and moral issues | | | | | | | |

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| 10. Do you have the broad education necessary to understand the impact of civil engineering solutions on issues such as: | | | | | | | |
| a. Health | | | | | | | |
| b. General welfare | | | | | | | |
| c. Safety | | | | | | | |
| d. Environmental quality | | | | | | | |
| e. Economy in a global/societal context | | | | | | | |
| | | | | | | | |
| 11. Are you committed to engage in lifelong learning throughout all of your professional life? | | | | | | | |
| a. Continuing education courses | | | | | | | |
| b. Undergraduate level courses in addition to degree | | | | | | | |
| c. Graduate courses | | | | | | | |
| d. Professional seminars | | | | | | | |
| e. Professional society annual conferences | | | | | | | |
| f. Membership in professional societies | | | | | | | |
| g. Technical publications | | | | | | | |
| h. Independent learning | | | | | | | |
| | | | | | | | |
| 12. Do you participate in the following lifelong learning activities? | | | | | | | |
| a. Social | | | | | | | |
| b. Cultural | | | | | | | |
| c. Economic | | | | | | | |
| d. Artistic | | | | | | | |
| e. Ethical | | | | | | | |
| f. Environmental | | | | | | | |
| g. Engineering | | | | | | | |
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| 13. Do you have the managerial and entrepreneurial skills needed to solve civil engineering problems? | | | | | | | |
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| 14. Are you satisfied with cost of education at UPRM? | | | | | | | |
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| 15. Are you satisfied with the level of professor's expectations of student's work? | | | | | | | |
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| 16. Are you satisfied with the projects assigned in the program at UPRM? | | | | | | | |
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| 17. Are you satisfied with the quality of teaching in the CE department? | | | | | | | |
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| 18. Are you satisfied with the quality of the research carried out in the CE department? | | | | | | | |
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| 19. Are you satisfied with the facilities in the CE department? | | | | | | | |
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| 20. Are you satisfied with the UPRM campus environment? | | | | | | | |
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| 21. Are you satisfied with the quality of education received at UPRM? | | | | | | | |
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| 22. Would you recommend the CE program at UPRM to your family and friends? | | | | | | | |