

# UAA Mechanical Engineering: Graduate Exit Survey 2009

## 1. General Information

The Mechanical Engineering/BSE program implements an outcomes based assessment program to enable continuous improvement and for the University and the Accreditation Board for Engineering and Technology (ABET). As a part of the program, we are surveying graduating students to find ways of improving our program. Your feedback will go a long way in helping us determine how well we are doing and what we can do to better serve our students, alumni, and the engineering community.

### 1. Today's Date?

MM    DD    YYYY

Example:

/  /

06/09/2007

### 2. Have you accepted a permanent position in the field of Mechanical Engineering: (select one)

Yes

No

### 3. Have you passed the FE exam?

Yes

No

Results Pending

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4. Primary Mechanical Engineering Field that you hope to work in: (select one)?

- Construction
- Controls
- Structural
- HVAC
- Machine Design
- Materials Design
- Energy/Power Systems
- Hydraulics & Fluids
- Power Plant Design
- Not working in engineering
- Other

If other Electrical Engineering specialty, please describe.

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## 2. Expected Outcomes

### Expected Outcomes

The UAA Mechanical Engineering/BSE program has adopted several expected outcomes. Please rate your knowledge/skills and the program's effectiveness in teaching you knowledge/skills relative each objective. In this survey, we ask for your opinion relative to each of these objectives. Second, rate each item according to how well you think you are able to function in relation to each objective. Please feel free to use the space after the list to briefly explain any of your responses or for additional comments. The objectives of the UAA Mechanical Engineering/BSE Program are to produce graduates with the following abilities.

5. An ability to apply knowledge of advanced mathematics including differential equations, science, and engineering.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jñ	jñ	jñ	jñ	jñ	jñ
How well did we do teaching this?	jñ	jñ	jñ	jñ	jñ	jñ

6. An ability to design and conduct experiments, as well as to analyze and interpret data.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jñ	jñ	jñ	jñ	jñ	jñ
How well did we do teaching this?	jñ	jñ	jñ	jñ	jñ	jñ

7. An ability to design a mechanical system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jñ	jñ	jñ	jñ	jñ	jñ
How well did we do teaching this?	jñ	jñ	jñ	jñ	jñ	jñ

8. An ability to function on multi-disciplinary teams.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jñ	jñ	jñ	jñ	jñ	jñ
How well did we do teaching this?	jñ	jñ	jñ	jñ	jñ	jñ

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9. An ability to identify, formulate, and solve mechanical engineering problems.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

10. An understanding of professional and ethical responsibility.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

11. An ability to communicate effectively.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

12. The broad education necessary to understand the impact of engineering solutions in a global and societal context.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

13. A recognition of the need for and an ability to engage in life-long learning.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

14. A knowledge of contemporary issues in professional practice.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

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15. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

16. An ability to apply knowledge of probability and statistics, including applications appropriate to mechanical engineering systems.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

17. An ability to apply knowledge of mathematics through differential and integral calculus, basic sciences, and engineering sciences necessary to analyze and design complex mechanical devices.

	poor	fair	good	excellent	outstanding	No opinion
What is your understanding/ability now?	jn	jn	jn	jn	jn	jn
How well did we do teaching this?	jn	jn	jn	jn	jn	jn

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## 3. Additional Information

The following additional information will help us in the improvement of our program.

18. Please indicate your satisfaction with each of the following aspects of your experience at UAA. Please feel free to use the space after the list to briefly explain any of your responses, especially if you feel less than satisfied.

	poor	fair	good	excellent	outstanding	no opinion
Quality of the Advising?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of Instruction?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of physical facilities?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of computer laboratories?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of physical laboratories?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional Comments? Please describe.

19. Please list up to three major strengths of your undergraduate engineering education or other UAA experiences.

20. Please list up to three areas for improvement in our undergraduate engineering program or other aspects of UAA.

21. With respect to the previous question, do you have any suggestions on how UAA could address these improvements?

22. Would you recommend a UAA engineering education to a friend or relative?

Yes

No

Maybe