Aerospace Engineering and Mechanics
University of Minnesota
Engineering Educational Survey for Upcoming BAEM Graduates
Spring Semester 2005

MARKING INSTRUCTIONS

• Use a No. 2 pencil only.
• Do not use ink, ballpoint, or felt tip pens.
• Make solid marks that fill the response completely.
• Erase cleanly any marks you wish to change.
• Make no stray marks on this form.

CORRECT: ●
INCORRECT: ☒ ☒ ☒

This is a survey of upcoming graduates of the Bachelors of Aerospace Engineering and Mechanics (BAEM) program. Results will be used to evaluate and improve the quality of the educational experience provided by the BAEM program. The final question about your plans following graduation is important for us in determining whether we are meeting our educational objectives. Please answer this question to the best of your ability. All your responses are kept confidential. Your responses are very important. Thank you.

When will you receive the BAEM degree from the University of Minnesota?

2005 (spring, summer, or fall)
2006 (spring, summer, or fall)
Other

Based on your U of M coursework, rate all the following statements, "Strongly Agree", "Agree", "Neutral", "Disagree" or "Strongly Disagree." In your rating, take into account all coursework (technical and liberal education), directed study, and other projects, internships, technical employment, and extra curricular activities during your enrollment at the University of Minnesota. The first 16 statements apply to all IT educational experiences while the remaining 13 statements apply specifically to the BAEM.

1. My education has prepared me to apply knowledge of mathematics, science, and engineering fundamentals to the solution of engineering problems.

2. My education has prepared me to design and conduct experiments and to analyze and interpret data.

3. My education has prepared me to design a system, component, or process to meet desired needs.

4. My education has prepared me to use modern tools (e.g. CAD and computation tools) necessary for engineering practice.

5. My education has prepared me to identify, formulate and solve engineering problems.

6. My education has given me a good understanding of professional and ethical responsibilities.

7. My education has prepared me to communicate effectively, in both oral and written form.

8. My education has prepared me to understand the impact of technology on society.

9. My education has provided me with the fundamentals for continuing learning throughout life.

10. My education has given me an appreciation of the societal context in which engineering is practiced.

11. The basic science component of my engineering education prepared me well for my major courses.
12. The basic mathematics component of my engineering education prepared me well for my major courses.

13. The lower division academic advising at the University of Minnesota was good.

14. The computational facilities available for my coursework and projects were good.

15. Instructors were available to discuss course-related issues outside of the class.

16. My courses included active learning experiences, such as discussion and team projects.

17. The upper division academic advising for the BAEM program was good.

18. My education provided me with a good understanding of engineering materials.

19. My education provided me with a good understanding of aerodynamics.

20. My education provided me with a good understanding of aerospace structures.

21. My education provided me with a good understanding of aerospace propulsion systems.

22. My education provided me with a good understanding of atmospheric flight mechanics.

23. My education provided me with a good understanding of orbital mechanics and space flight.

24. My education provided me with a good understanding of flight dynamics and control.

25. The design experiences provided throughout the BAEM curriculum were good.

26. The intern and/or work experiences enhanced my education. If n/a ignore.

27. The quality of laboratory facilities provided by the BAEM program was good.

28. The quality of computational facilities provided by the BAEM program was good.

29. The senior design courses improved my ability to work as part of a team.

After graduation I will: ________________________________

Any comments either positive or negative you may have regarding your education experience are extremely useful to us. In particular, please comment on any aspect of your program which you rated a neutral or less. Specifically, indicate what could be improved and how this might be done. Please provide your comments below.