

ASE Graduating Senior Exit Survey
(to be completed by faculty member interviewing the student)

The objectives of this survey are to:

- a) determine if the department is achieving the goals stated in the catalog (and reprinted on the attachment to this survey form)
- b) determine what, if any, changes are needed to improve our abilities to meet those goals

1.0) Why did you choose to become an aerospace engineer? _____

(i) Now that you are near graduation do you feel that your expectations have been met? _____

(ii) What is your GPA? _____

(iii) Do you think that your GPA reflects your level of preparedness? _____

2.0) What are your immediate post-graduation goals? (choose 1)

a) Obtain a position in the aerospace industry _____

(i) What organization and what area? _____

b) Obtain a position in another technical or science-related industry _____

(i) What organization and what area? _____

c) Attend graduate school in science or engineering _____

(i) What institution and area? _____

d) Work or continue my education in a field different than engineering _____

(i) What organization or institution, and what area? _____

e) Don't know or have not finalized my plans _____

3.0) Why have you chosen to follow the career path above? _____

4.0) One of our goals is to prepare students to work in the Aerospace Industry in particular, and the Engineering Industry as a whole. Another goal is to prepare you to continue your education at the graduate level.

a) Regardless of your future plans do you feel prepared to work as an entry level engineer in the Aerospace industry? Why or why not? _____

b) If you participated in a co-op, internship or part-time work related to engineering

(i) With which organization were you affiliated and was the experience beneficial? _____

(ii) Did this experience influence your post-graduation plans? _____

(iii) Do you recommend this experience to other students? _____

c) Did you participate in an undergraduate research experience, or any other research related project?

(i) Was the experience beneficial and did it influence your post graduation plans? _____

(ii) Do you recommend this experience to other students? _____

d) Regardless of your future plans do you feel prepared to go to Graduate School in an Aerospace related program? Why or why not? _____

5.0) The primary way we try to meet our objectives is through the design of our curriculum.

a) What areas of the curriculum do you feel were strong and where do you feel that improvements may be needed? _____

b) Is the credit for each course consistent with the amount of work? _____

c) Are the prerequisites for the courses too strict, just right, not enough? _____

d) Are there topics which you would like to see included in the curriculum? _____

e) Is there a balance between analysis, numerical work and experiment? _____

6.0) You took several laboratory classes during your degree program

a) Do you feel that the facilities were up to date? _____

b) Were there enough computers and other equipment to handle the student load? _____

7.0) The department operates a Learning Resource Center (LRC) for student use.

a) Did the LRC meet your needs? _____

b) Were the number and types of computers, and the software adequate for your needs? _____

c) Do you have any suggestions for improving LRC services? _____

8.0) You took classes from many different faculty members. Do the faculty from whom you learned the most have common attributes? What are these attributes? _____

9.0) Is there anything else that you want to tell us about the ASE program, good or bad? _____

Program "Outcomes" Survey

Listed below left are the "outcomes" of our program. Outcomes are what we expect our graduates to be able to do. Please read them through carefully and assign a numeric score to each one. The numeric key is listed below. Indicate where you think we can make improvements in the right hand column.

Numeric Key 1 – poor, 2 – fair, 3 – good, 4 – very good, 5 - excellent

Outcome	Score	Suggestions for Improvements
(a) ability to apply knowledge of math, engineering, and science		
(b1) ability to design and conduct experiments		
(b2) ability to analyze and interpret data		
(c) ability to design system, component or process to meet needs		
(d) ability to function on multi-disciplinary teams		
(e) ability to identify, formulate, and solve engineering problems		
(f) understanding of professional and ethical responsibility		
(g) ability to communicate effectively		
(h) experienced a broad education		
(i) recognition of need an ability to engage in life-long learning		
(j) knowledge of contemporary issues		
(k) ability to use techniques, skills, and tools in engineering practice		

BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING (Undergraduate Catalog, p. 140)

The objectives of the aerospace engineering degree program are to prepare students for professional practice in aerospace engineering and related engineering and scientific fields; to prepare students for such post-baccalaureate study as their aptitudes and professional goals may dictate; to instill in students a commitment to lifelong education and to ethical behavior throughout their professional careers; and to make students aware of the global and societal effects of technology. To meet these objectives, the faculty has designed a rigorous curriculum that emphasizes fundamentals in the basic sciences, mathematics, and the humanities and integrates classroom and laboratory experiences in the engineering disciplines of aerodynamics and propulsion, structural mechanics, mechanics of materials, flight and orbital mechanics, controls, computation, measurements and instrumentation, design, and technical communication. The curriculum requires students to use modern engineering tools, to work individually, and practice teamwork.