CUSTOM SURVEY FORM -- WINTER, 2005

Items:

1. My ed has prepared me to apply knowledge of math, science, eng fundamentals....
   Mean = 4.41  Median = 4.43
   Standard Deviation = 0.62
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 4 (1.9%)
             Neutral (3) 2 (1.9%)
             Disagree (4) 27 (50.0%)
             Strongly Disagree (5) 25 (46.3%)

2. ...to design and conduct experiments and to analyze and interpret data.
   Mean = 4.31  Median = 4.30
   Standard Deviation = 0.63
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 2 (3.7%)
             Neutral (3) 1 (1.9%)
             Disagree (4) 30 (55.6%)
             Strongly Disagree (5) 21 (38.9%)

3. ...to design a system, component, or process to meet desired needs.
   Mean = 3.67  Median = 3.79
   Standard Deviation = 1.04
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 5 (9.3%)
             Neutral (3) 14 (25.9%)
             Disagree (4) 21 (38.9%)
             Strongly Disagree (5) 12 (22.2%)

4. ...to use modern tools (e.g. CAD) necessary for engineering practice.
   Mean = 4.44  Median = 4.46
   Standard Deviation = 0.57
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 0 (0.0%)
             Neutral (3) 2 (3.7%)
             Disagree (4) 26 (48.1%)
             Strongly Disagree (5) 26 (48.1%)

5. ...to identify, formulate and solve engineering problems.
   Mean = 4.28  Median = 4.24
   Standard Deviation = 0.59
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 4 (7.4%)
             Neutral (3) 26 (48.1%)
             Disagree (4) 31 (57.4%)
             Strongly Disagree (5) 19 (35.2%)

6. ...has given me a good understanding of professional and ethical responsibilities.
   Mean = 4.26  Median = 4.26
   Standard Deviation = 0.57
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 2 (3.7%)
             Neutral (3) 6 (11.1%)
             Disagree (4) 34 (63.0%)
             Strongly Disagree (5) 12 (22.2%)

7. ...to communicate effectively, in both oral and written form.
   Mean = 3.89  Median = 3.95
   Standard Deviation = 0.79
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 1 (1.9%)
             Neutral (3) 11 (20.4%)
             Disagree (4) 31 (57.4%)
             Strongly Disagree (5) 10 (18.5%)

8. ...has prepared me to understand the impact of technology on society.
   Mean = 4.24  Median = 4.24
   Standard Deviation = 0.66
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 0 (0.0%)
             Neutral (3) 7 (13.0%)
             Disagree (4) 27 (50.0%)
             Strongly Disagree (5) 20 (37.0%)

9. ...has provided me with the fundamentals for continued learning throughout life.
   Mean = 4.24  Median = 4.24
   Standard Deviation = 0.66
   Responses to item = 54 (100.0%)
   Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 3 (5.6%)
             Neutral (3) 15 (27.8%)
             Disagree (4) 27 (50.0%)
             Strongly Disagree (5) 9 (16.7%)

10. My education has given me an appreciation of the societal context in which...
    Mean = 3.78  Median = 3.83
         Standard Deviation = 0.79
         Responses to item = 54 (100.0%)
    Options: Strongly Agree (1) 0 (0.0%)
             Agree (2) 2 (3.7%)
             Neutral (3) 5 (9.3%)
             Disagree (4) 32 (59.3%)
             Strongly Disagree (5) 14 (25.9%)
12. The basic math component of my engineering courses prepared me well for my major courses.
   Mean = 4.04  Median = 4.09
   Standard Deviation = 0.84
   Responses to item = 54 (100.0%)

13. The lower division academic advising at the U of M was good.
   Mean = 2.87  Median = 2.81
   Standard Deviation = 1.09
   Responses to item = 52 (96.3%)

14. The computational facilities available for my coursework and projects were good.
   Mean = 3.80  Median = 3.93
   Standard Deviation = 0.97
   Responses to item = 54 (100.0%)

15. Instructors were available to discuss course-related issues outside of class.
   Mean = 4.33  Median = 4.28
   Standard Deviation = 0.54
   Responses to item = 54 (100.0%)

16. My courses included active learning experiences, such as discussion and team work.
   Mean = 4.40  Median = 4.41
   Standard Deviation = 0.62
   Responses to item = 53 (98.1%)

17. The upper division academic advising for the BAEM program was good.
   Mean = 3.67  Median = 3.83
   Standard Deviation = 0.96
   Responses to item = 54 (100.0%)

18. My education provided me with a good understanding of engineering materials.
   Mean = 3.89  Median = 3.96
   Standard Deviation = 0.66
   Responses to item = 54 (100.0%)

19. ...with a good understanding of aerodynamics.
   Mean = 4.34  Median = 4.54
   Standard Deviation = 0.66
   Responses to item = 54 (100.0%)

20. ...with a good understanding of aerospace structures.
    Mean = 3.61  Median = 3.75
    Standard Deviation = 0.89
    Responses to item = 54 (100.0%)

21. ...with a good understanding of aerospace propulsion systems.
    Mean = 4.31  Median = 4.31
    Standard Deviation = 0.63
    Responses to item = 54 (100.0%)

22. ...with a good understanding of atmospheric flight mechanics.
    Mean = 4.22  Median = 4.22
    Standard Deviation = 0.68
    Responses to item = 54 (100.0%)
Items:

23. ...with a good understanding of orbital mechanics and space flight.
   Mean = 3.65  Median = 3.82
   Standard Deviation = 0.91
   Responses to item = 54 (100.0%)

24. ...with a good understanding of flight dynamics and control.
   Mean = 4.06  Median = 4.11
   Standard Deviation = 0.83
   Responses to item = 54 (100.0%)

25. The design experiences provided throughout the BAEM curriculum were good.
   Mean = 4.15  Median = 4.16
   Standard Deviation = 0.73
   Responses to item = 54 (100.0%)

26. The intern and/or work experiences enhanced my education.
   Mean = 4.77  Median = 4.85
   Standard Deviation = 0.42
   Responses to item = 13 (24.1%)

27. The quality of laboratory facilities provided by the BAEM program was good.
   Mean = 3.72  Median = 3.90
   Standard Deviation = 0.78
   Responses to item = 54 (100.0%)

28. The quality of computational facilities provided by the BAEM program was good.
   Mean = 3.61  Median = 3.75
   Standard Deviation = 0.89
   Responses to item = 54 (100.0%)

29. The senior design courses improved my ability to work as part of a team.
   Mean = 4.30  Median = 4.30
   Standard Deviation = 0.71
   Responses to item = 54 (100.0%)

30. When will you receive the BAEM degree from the University of Minnesota?
    Mean = 1.00  Median = 1.00
    Standard Deviation = 0.00
    Responses to item = 31 (57.4%)