Graduating Senior Survey – Electrical Engineering Majors

1. When do you expect to graduate (quarter and year)?

2. What degree do you expect to receive?
   - □ BS degree – single major in Electrical Engineering
   - □ BS degree – Integrated Degree Program
   - □ Other – double major or minor
     Please specify ____________________

3. In what area are you specializing?
   - □ Analog electronics
   - □ Digital electronics
   - □ Electromagnetics
   - □ Physical electronics
   - □ Communications, control and signal processing
   - □ None
   - □ Other
     Please specify ____________________

4. What is your approximate UC GPA?
   - □ 2.0 - 2.5
   - □ 2.5 – 3.0
   - □ 3.0 – 3.5
   - □ 3.5 – 4.0

5. Where did you do your lower division coursework?
   - □ UC Davis
   - □ American River College
   - □ Sacramento City College
   - □ Cosumnes River College
   - □ Santa Rosa Community College
   - □ Other
     Please specify ____________________

6. How well did your lower division coursework prepare you for your upper division coursework?
   - □ Very well
   - □ Well
   - □ Adequately
   - □ Barely
   - □ Not at all
7. Do you have an understanding of the physical and mathematical principles that form the foundation of electrical engineering?

□ Definitely
□ Adequately
□ Barely
□ Not at all

8. Do you have the ability to apply your knowledge of basic science, mathematics and engineering principles to solve complex problems?

□ Definitely
□ Adequately
□ Barely
□ Not at all

9. Do you have the ability to identify and formulate engineering problems using your knowledge of basic science, mathematics and engineering principles?

□ Definitely
□ Adequately
□ Barely
□ Not at all

10. Do you have the ability to perform experiments or simulations and interpret the results to evaluate potential solutions to engineering problems?

□ Definitely
□ Adequately
□ Barely
□ Not at all

11. Do you have the ability to determine which experiments or simulations are needed to evaluate or clarify a given design problem?

□ Definitely
□ Adequately
□ Barely
□ Not at all

12. Do you have an understanding of how to apply modern engineering design methodologies and tools and the ability to pick the appropriate tools and techniques for a given design problem?

□ Definitely
□ Adequately
□ Barely
□ Not at all

13. Do you have the ability to pick the appropriate tools for a given design problem?

□ Definitely
□ Adequately
□ Barely
□ Not at all
14. Do you have the ability to design a component, system or process to meet established technical criteria?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

15. Do you have the ability to develop the overall system architecture and technical specifications required to accomplish a desired function?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

16. Do you have the ability to contribute effectively to multi-disciplinary projects?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

17. Do you have an understanding of professional ethics and responsibilities?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

18. Do you have the broad educational background and understanding of contemporary issues necessary to appreciate the societal implications of engineering developments?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

19. Do you have an understanding of current industrial safety procedures to protect the individual and the environment?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all

20. Do you have the ability to communicate effectively?

☐ Definitely
☐ Adequately
☐ Barely
☐ Not at all
21. Do you recognize the need for – and have the ability to – continue your education throughout your career?
   - □ Definitely
   - □ Adequately
   - □ Barely
   - □ Not at all

22. How many job interviews have you had?
   - □ 0
   - □ 1 - 2
   - □ 3 - 4
   - □ 5 or more

23. How well did your education at UCD prepare you for the technical questions on your interviews?
   - □ Well
   - □ Adequately
   - □ Barely
   - □ Not at all

24. For what areas did you not feel adequately prepared (if any)?
   - □ Analog electronics
   - □ Digital electronics
   - □ Electromagnetics
   - □ Physical electronics
   - □ Communications, control and signal processing
   - □ Other
     Please specify ____________________

25. As you know, students in the College of Engineering are required to meet with a staff/faculty advisor at least once per year for review and approval of their academic plan. Do you have any suggestions for improving this mandatory advising system?

26. Do you have any suggestions for how the undergraduate program in Electrical Engineering could be improved?