

## 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?**