## APPENDIX VI - PROGRAM OBJECTIVES EVALUATIONS SURVEYS

<table>
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<tr>
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<th>Summary of Alumni Survey</th>
<th>Page Number</th>
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<td>B</td>
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<td>C</td>
<td>Summary of Engineering Advisory Council Survey</td>
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</tr>
</tbody>
</table>
A. SUMMARY OF ALUMNI SURVEY

A.1 Spring 2006 Survey Results

Date Sent: 11/30/05   Number Sent: 44   Number of Response: 6

Degree received: 6 (100%)  
- Bachelor of Science in Electrical Engineering (BSEE)
- Bachelor of Science in Computer Engineering (BSCEN)
- Both the BSEE and BSCEN

Please rate your level of agreement with each of the following accomplishments of our educational objectives as a result of our engineering education at the University of West Florida by checking the appropriate column of your response by a mark, x:

<table>
<thead>
<tr>
<th>#</th>
<th>Accomplishments of our educational objectives</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Strongly Agree</td>
</tr>
<tr>
<td>1a.</td>
<td>Develop electrical engineering solutions either individually or through interdisciplinary teams within a global and societal context.</td>
<td>5 (83%)</td>
</tr>
<tr>
<td>1b.</td>
<td>Develop computer engineering solutions either individually or through interdisciplinary teams and act accordingly within a global and societal context.</td>
<td>2 (33%)</td>
</tr>
<tr>
<td>2.</td>
<td>Professionally and ethically, engage in technical or business activity through engineering ability, communication skills, and knowledge.</td>
<td>5 (83%)</td>
</tr>
<tr>
<td>3.</td>
<td>Continue professional growth through post-graduate education, continuing education, or professional activity.</td>
<td>5 (83%)</td>
</tr>
<tr>
<td>4.</td>
<td>Contribute to the Northwest Florida regional economic development.</td>
<td>2 (33%)</td>
</tr>
</tbody>
</table>

2. Do you think that our educational objectives (as listed above) are sound, sufficient, achievable and appropriate to the practice of electrical and computer engineering? 5 (83%) YES 1 (17%) NO, suggest changes.

If NO, what changes and/or modifications would you suggest?

New grads need some background and/or training in business skills (proposals, communication, etc) as well as scheduling (Project) and budgets.

3. Do you have any suggestions for improving our curriculum (courses, laboratories, computer facilities) so that we could better meet our objectives?

I wish I could have learned more about the RF and spectrum analyzers but its my fault for not having taken the courses – it would have made working a little easier. I have to learn it and use it which is tough in crunch times.

From the technical side, the education I got was top notch. The soft skills need more attention and emphasis.

No the program, when I was there, was really strong in communications, electronics, and digital type classes. I would like to see more electric power type curriculum added to the program. I would like to see more local businesses involved in the Senior Design projects. This way the student learns how industry works, and it will go along way with getting the graduates jobs.

4. What do you consider to be the greatest strengths and/or weakness of our undergraduate programs?

- I believe that the small class size proves an advantage to educational development. There is much more to be gained from the ability to see the professor directly, as opposed to a graduate student. Also, I assume it is still true, having professors that have come back from industry help to shed a "real " side to Engineering.
- Class size and professor accessibility.
- Strength: hands on use of scopes and building the robots (programming controllers) I did in school is very useful. Every job I have had people say, "we wish we could clone you".
The faculty (when I was there) was the greatest strength with one notable exception but he's gone. The facilities were perfect for a group the size of mine. I can't imagine that the same labs are sufficient for much larger class.

Greatest strength at the time of my graduation was the small class size and the lab availability.

The size of your program allows students to really get to know their professors. Especially, since you will have them for multiple classes. I think the support staff at the department makes things very personal with all students. Sherry and Mr. Weber were all ways a big help.

5. How do you continue professional growth? Please check as appropriate

Professional society __3 (50%)___ Continuing Education _4 (67%)___ Passed EIT Exam __1 (17%)___ Passed PE Exam __1(17%)___

Masters Degree __2 (33%)_____ Ph.D. __1 (17%)___ Others Please specify ________________


A.2 Spring 2005 Survey Results

No Sent: 126 Received: 11
Mailed Feb. 15, 2005

Degree received: Bachelor of Science in Electrical Engineering (BSEE) 2(18%) Term & year received May 2003, May 99
Bachelor of Science in Computer Engineering (BSCEN) 1(9%) Term & year received 2003
Both the BSEE and BSCEN 1(9%) Term & year received 2003

1. Please rate your level of agreement with each of the following statements by circling the number in the column of your response:

As a result of my UF/UWF Joint Program education, I am well prepared to

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>2(18%)</td>
<td>8(73%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer's needs</td>
<td>1(9%)</td>
<td>9(82%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>3(27%)</td>
<td>5(9%)</td>
<td>1(9%)</td>
<td>1(9%)</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>understand my professional and ethical responsibilities</td>
<td>2(18%)</td>
<td>7(64%)</td>
<td>1(9%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>understand the impact of engineering solutions in a global societal context</td>
<td>1(9%)</td>
<td>6(55%)</td>
<td>2(18%)</td>
<td>1(9%)</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>1(9%)</td>
<td>9(82%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
<tr>
<td>understand contemporary engineering issues</td>
<td>1(9%)</td>
<td>5(45%)</td>
<td>3(27%)</td>
<td>1(9%)</td>
<td>0</td>
<td>0</td>
<td>10(91%)</td>
</tr>
</tbody>
</table>

2. Which of the following general categories best describes your current work assignment?
(a) Design 1(9%) (d) Sales/Marketing 1(9%)
(b) Manufacturing 1(9%) (e) Management 1(9%)
(c) Research & Development 2(18%) (f) Graduate School 1(9%)
(Field 1(9%)) (Specify 1(9%))

3. What is your situation regarding the Fundamentals of Engineering Exam (formerly EIT Exam)?
   4 (36%) Have not taken
   □ Taken once and failed 1(9%) Taken once and passed
   □ Taken more than once and passed

4. What do you consider to be the greatest strength of your undergraduate program?
   - Digital Design
   - Micro-processor applications
   - I got invaluable problem solving skills from the program, and learned to make continuing education part of my life.
   - The ability to think analytically. The confidence in knowing I can learn anything. The work ethic I developed while going through in my opinion, most difficult undergrad degree you can obtain.
   - Digital design and programming and interfacing the two.
   - One on one contact with the teachers.
   - Smaller classes and personal attention by professors

5. What do you consider to be the greatest weakness of your undergraduate program
   - Communication design process
   - Lack of hands on application. Using design tolls for PCB, and other complex instruments such as a network analyzer.
   - The lack of professors with work experience. The one professor who had “real world” experiences was able to relate the theory to practical applications much better than the other professors.
   - Signals and systems – but I didn’t study it enough, I feel it was presented and lord knows I took it enough times.
   - Teaching equipment in the labs.
   - Lack of emphasis on the importance of teams in engineering. Teamwork is essential for success. We worked in teams during labs and this gave us the team experience. However, I believe a class should be offered to focus on teams and how to effectively work with others.

6. What one or two specific curriculum changes would you recommend? Why?

Appendix VI - 4
No changes
Provide students with the opportunity to learn about circuit board design and manufacturing. Discuss common problems and how to avoid them – cross-coupling, signal reflections, power budgets, ground loops, etc. Most students will face these issues in the course of their careers. Learning the basics of board design will help students avoid costly mistakes in the future. More electives – offer more opportunities to take classes like digital communications, dsp, etc. Electives are not offered often and at convenient times. More design work like senior design. Senior design work forces a student to go through the entire engineering process from idea conceptualization to having a working product. Steps, like device selection, is something that is very important to get a working product, but is not dealt with in theoretical work. The undergrad's should have more presentation opportunities and more “soft skill” training. Not sure it’s needed. I feel good about it. None Need a class regarding contracts, p & c balance sheet, etc. Need a leadership class to prepare for team environment.

How long did it take you to get your first full-time permanent job after completing your bachelor's degree?
- Accepted position upon graduation 2(18%)
- Have not obtained a full-time permanent job 1(9%)
- Went to graduate school after graduation
- Returned to military service

8. What is your current employment status?
- Employed full-time (35+ hours per week) 4(36%)
- Employed part-time (34 hours or less per week)
- Unemployed, but seek employment
- Unemployed, not seeking employment

9. If you are currently employed, within what general range is your income per year? (This information will remain strictly confidential)
- Under $20,000 $40,000-$49,999 1(9%)
- $20,000-$29,999 1(9%)
- $30,000-$39,000
- $50,000-$59,000 $70,000 or over 3(27%)
- $60,000-$69,999

10. If you are employed, the name and address of your company

Company Name: Fairhope High School, Bell South, Ian Conrad Berge, Microsystems, Inc., Wayne Dalton Corp, ASI, Boeing, Naval Surface Warfare Center, 46th Test Wing, Automated Publishing Solutions

Address: ________________________________

11. Please provide any additional comments/suggestions concerning your undergraduate program or the Department of Electrical and Computer Engineering.
- UF/UWF program is an excellent program and I would recommend its graduates to any employer. Keep up the good work!
- I learned a great deal in sr. design. I had no idea how important it was going to be to my future. The projects I worked on, I think, are what got me hired. Not to mention the skills, even though green, demonstrated. I had to do a great deal of learning and “putting it al together” during that time.
Questionnaires for Program Objectives

Summary

Sent: 126  Received: 11

1. Mission statement for the joint program
   8(73%) No Changes  1(9%) Changes
   - Offer more electives each semester

2. Program objectives for electrical engineering
   8 (73%) No Changes  1(9%) Changes
   - Focus more on analog electronics. Offer a class on circuit board design to cover board design issues-ground issues, decoupling and cross-coupling issues.

3. Program Objectives for computer engineering
   9 (82%) No Changes  0 Changes

5. Relation to Joint Program:
   Alumni: 11 (100%)
A.3 Fall 2001 Survey Results

Date Sent: 8/29/01   Number Sent: 65   Number of Response 3
Degree received: 3 (100%) □ Bachelor of Science in Electrical Engineering (BSEE)
□ Bachelor of Science in Computer Engineering (BSCEN)
□ Both the BSEE and BSCEN

Please rate your level of agreement with each of the following statements by circling the number in the column of your response:

As a result of my University of Florida engineering education, I am well prepared to

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>3 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer’s needs</td>
<td>1 (33%)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>1 (33%)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Understand my professional and ethical responsibilities</td>
<td>1 (33%)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Understand the impact of engineering solutions in a global societal context</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>1 (33%)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Understand contemporary engineering issues</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Which of the following general categories best describes your current work assignment?

1 (33%) □ (a) Design □ (d) Sales/Marketing □ (g) Environmental
□ (b) Manufacturing □ (e) Management □ (h) Unemployed
2 (67%) □ (c) Research & Development □ (f) Graduate School □ (i) Other
(Field _____________) (Specify: )

3. What is your situation regarding the Fundamentals of Engineering Exam (formerly EIT Exam)?

2 (67%) □ Have not taken □ Taken once and failed 1 (33%) □ Taken once and passed
□ Taken more than once and passed □ Taken more than once and failed

4. What do you consider to be the greatest strength of your undergraduate program?
   • The ability to work one on one with the instructors.
   • Development of problem-solving skills.

5. What do you consider to be the greatest weakness of your undergraduate program?
   • The lack of available electives.
   • Lack of real-world applications.

6. What one or two specific curriculum changes would you recommend? Why?
   • I would offer more courses at night for those of us who work to take continuing educations courses (especially electives).

Appendix VI - 7
7. How long did it take you to get your first full-time permanent job after completing your bachelor’s degree?

3 (100%) □ Accepted position upon graduation
□ 1-6 months
□ 7-12 months
□ Over 1 year
□ Have not obtained a full-time permanent job
□ Went to graduate school after graduation
□ Returned to military service

8. What is your current employment status?

3 (100%) □ Employed full-time (35+ hours per week)
□ Employed part-time (34 hours or less per week)
□ Unemployed, but seek employment
□ Unemployed, not seeking employment

9. If you are currently employed, within what general range is your income per year? (This information will remain strictly confidential)
□ Under $20,000 1 (33%) □ $40,000-$49,999 □ $60,000-$69,999
□ $20,000-$29,999 2 (67%) □ $50,000-$59,000 □ $70,000 or over
□ $30,000-$39,000

1. Please provide any additional comments/suggestions concerning your undergraduate program or the UF/UWF Joint Program in Electrical and Computer Engineering.
   - The stated program objectives are noble, but the actual coursework did not seem to honor them.
   - There needs to be more emphasis on start-to-finish projects. At work, I don’t solve individual math problems.

MISSION STATEMENT FOR THE JOINT PROGRAM
3 no changes

2. PROGRAM OBJECTIVES FOR ELECTRICAL ENGINEERING
3 no changes

3. PROGRAM OBJECTIVES FOR COMPUTER ENGINEERING
3 no changes

4. RELATIONSHIP TO THE JOINT PROGRAM
3 alumni
A.4 Spring 1999 Survey Results

Date Sent: 2/18/99 Number Sent: 54 Number of Response 16

Degree received:  □ Bachelor of Science in Electrical Engineering (BSEE)
□ Bachelor of Science in Computer Engineering (BSCEN)
□ Both the BSEE and BSCEN

1 Please rate your level of agreement with each of the following statements by circling the number in the column of your response:

As a result of my University of Florida engineering education, I am well prepared to

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>11 (69%)</td>
<td>5 (31%)</td>
<td></td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer's needs</td>
<td>10 (63%)</td>
<td>5 (31%)</td>
<td></td>
<td>1 (6%)</td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>10 (63%)</td>
<td>6 (37%)</td>
<td></td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>Understand my professional and ethical responsibilities</td>
<td>8 (50%)</td>
<td>8 (50%)</td>
<td></td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>Understand the impact of engineering solutions in a global societal context</td>
<td>8 (50%)</td>
<td>6 (37%)</td>
<td>2 (13%)</td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>11 (69%)</td>
<td>5 (31%)</td>
<td></td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
<tr>
<td>Understand contemporary engineering issues</td>
<td>7 (44%)</td>
<td>8 (50%)</td>
<td>1 (6%)</td>
<td></td>
<td></td>
<td>16 (100%)</td>
</tr>
</tbody>
</table>

2 Which of the following general categories best describes your current work assignment?
   □ (a) Design   □ (d) Sales/Marketing   □ (g) Environmental
   □ (b) Manufacturing □ (e) Management   □ (h) Unemployed
   □ (c) Research & Development □ (f) Graduate School □ (i) Other
   (Field ____________) (Specify: Computer Engineer)

3 What is your situation regarding the Fundamentals of Engineering Exam (formerly EIT Exam)?
   □ Have not taken □ Taken once and failed □ Taken once and passed
   □ Taken more than once and passed □ Taken more than once and failed

9. What do you consider to be the greatest strength of your undergraduate program?
   ♦ Location/Reputation of UF
   ♦ The program was very difficult. The difficulty of the program prepared me well for the real world.
   ♦ The high level of work ethic that is necessary to acquire a BSEE is truly indicative of the work ethic required to function as a design engineer.
   ♦ Small classes and teachers always available.
   ♦ The knowledge & experience of the faculty.
   ♦ One on one student/instructor interaction.
   ♦ Professors are nearly always available to assist students.
   ♦ Lab equipment and student teacher ratio
   ♦ Labs & Lab Equipment
   ♦ My digital preparation. Most instructors had background in this, and it spilled over.

Appendix VI - 9
Diversity of my EE knowledge.
Electronics
Teaching the student to manage several complicated classes/tasks simultaneously.
Small classes.
Variety of courses.

10. What do you consider to be the greatest weakness of your undergraduate program?
- More class time offerings including night courses.
- I was not able to concentrate on one field.
- Ability to take desired electives (due to size of faculty and student population.
- Attitude of the faculty.
- EE’s are often expected to know how to program in a standard language such as C or CH. Requiring students to learn CH would be very beneficial.
- No system design training.
- More could be done to demonstrate how the deep theoretical knowledge used/acquired in school is applied to real world engineering problems.
- Quality of instructors.
- The lack of practical knowledge (tool use, soldering, etc.). Engineers need some basic understanding of these skills to be more useful at the start.
- A growing trend among a few faculty to make the program easier so that more students can make it through.
- Microprocessors.
- There was very little material covered to educate the student on the financial issues of an engineering program.
- Organization.

6. What one or two specific curriculum changes would you recommend? Why?
- Add a lab to the power course
- Require more tech electives be from the electrical engineering curriculum – Force students to take a direction towards a specialty. They are more useful and marketable in the workplace.
- Electronics II needs to have 3 hours of class time. Two fifty minute classes a week is not sufficient. There is too much information that is missed.
- The only change I recommend is requiring students to be proficient in a high-level programming language.
- Add more electives to allow students to tailor program to individual needs & desires.
- A course on “project management” would be of great benefit since cost and schedule often has a great impact on design. Extending “Senior Design” to 2 terms (1 for the design and 1 for the implementation) while requiring each design to be much more complicated.
- Add more process development to all design classes.

7. How long did it take you to get your first full-time permanent job after completing your bachelor’s degree?
- Accepted position upon graduation (75%)  
- 1-6 months (25%)  
- 7-12 months  
- Over 1 year

8. What is your current employment status?

Appendix VI - 10
16 □ Employed full-time (35+ hours per week)
□ Employed part-time (34 hours or less per week)
□ Unemployed, but seek employment
□ Unemployed, not seeking employment

9. If you are currently employed, within what general range is your income per year? (This information will remain strictly confidential)
□ Under $20,000  8 □ $40,000-$49,999  □ $60,000-$69,999
□ $20,000-$29,999  2 □ $50,000-$59,999  □ $70,000 or over
□ $30,000-$39,000

10. Please provide any additional comments/suggestions concerning your undergraduate program or the UF/UWF Joint Program in Electrical and Computer Engineering.
♦ This is a wonderful program. I was glad to attend. The small classes made it a wonderful atmosphere. Students learned to work in groups outside of class to help each other do well in the class. The teaching by all the professors was excellent. They knew their subjects.
♦ I believe the program is very sound. It has prepared me very well for both engineering employment as well as graduate school.
♦ Major projects in the “real world” have a large number and type of supporting documents (i.e. Custom Specification, Details Design Doc., Software Requirement Spec, Interface Requirement, etc.). The closest course to giving me any insight to engineering “documentation” was Software Engineering I from the Computer Science Department. UWF needs to do more on “Documentation” classes.
♦ Need Masters level degree offered for Computer Engineer. August 1998 I Quit Dynetics to enter the M.S.E.E. program in Gainesville, Fl. That is why I marked (F) for #2. However, all other answers refer to my period of employment at Dynetics, Inc., including #2 ©
B. SUMMARY OF EMPLOYER SURVEY

B.1 Fall 2004 Survey Results

Sent: 25      Received: 2
2004 Survey

Please rate your level of agreement with each of the following statements by circling the number in the column of your response:

The graduates of the UF/UWF Joint Program in Electrical & Computer Engineering are well prepared to:

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and</td>
<td>2 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>engineering skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>design systems, components or processes to</td>
<td>2 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>meet my employer's needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>1 (50%)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>understand my professional and ethical</td>
<td>1 (50%)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>responsibilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>understand the impact of engineering solutions</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>in a global societal context</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>apply the techniques, skills and modern</td>
<td>2 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
<tr>
<td>engineering tools necessary for good</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>engineering practice</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>understand contemporary engineering issues</td>
<td>2 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>2 (100%)</td>
</tr>
</tbody>
</table>

2. What do you consider to be the greatest strength of our undergraduate program?  
   Student faculty ratio  
   Small class sizes = better mentoring of students  
   What do you consider to be the greatest weakness of our undergraduate program?  
   Facilities  
   Outdated lab equipment

4. What one or two specific curriculum changes would you recommend? Why?  
   More electives, make electronics II a 4 credit course  
   Technical writing requirements, excellent communication skills are a must have

Appendix VI - 12
B.2 Fall 2001 Survey Results

Date Sent: 8/29/01 Number Sent: 15 Number of Response 7

1. Please rate your level of agreement with each of the following statements by circling the number in the column of your response: Highly recommended by firms, which have graduates

The graduates of the UF/UWF Joint Program in Florida Electrical and Computer Engineering program are well prepared to:

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>4 (66%)</td>
<td>1 (17%)</td>
<td>1 (17%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer’s needs</td>
<td>1 (17%)</td>
<td>4 (66%)</td>
<td>0</td>
<td>0</td>
<td>1 (17%)</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>1 (17%)</td>
<td>2 (33%)</td>
<td>1 (17%)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>Understand my professional and ethical responsibilities</td>
<td>3 (50%)</td>
<td>2 (33%)</td>
<td>0</td>
<td>0</td>
<td>1 (17%)</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>Understand the impact of engineering solutions in a global societal context</td>
<td>1 (17%)</td>
<td>4 (66%)</td>
<td>0</td>
<td>0</td>
<td>1 (17%)</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>2 (33%)</td>
<td>3 (50%)</td>
<td>1 (17%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>Understand contemporary engineering issues</td>
<td>0</td>
<td>6 (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
</tbody>
</table>

2. What do you consider to be the greatest strength of our undergraduate program?

The students are mature and well suited for our company.

- Quality professors & instructors.
- Excellent campus & scholastic atmosphere relationship with Univ. of Florida
- Small size classes allows for individual attention.
- Affiliation with UF.
- Source of qualified engineers for industry and government in a region where recruitment is difficult.

3. What do you consider to be the greatest weakness of our undergraduate program?

Lack of facilities to facilitate growth.

- This is a common problem the students have not been exposed to the national electric code and medium voltage systems. Most universities are not set up to help teach the students design.
- Size. A larger program will offer greater flexibility.
- Lack of practical experience by the professors.
- Inflexibility in working with employers for student internships.
- Students in the graduate program here display weaker analytical skills than the students from other colleges.

4. What one or two specific curriculum changes would you recommend? Why?

Exclusive of the existing curriculum, add other discipline(s) which provide immediate job opportunities in the region.

Appendix VI - 13
• Make power systems and a power design project.
• More EE electives. More EE communication electives.
  Curriculum changes not necessary. More selective entrance requirements may permit more complete exploitation of existing curriculum.

MISSION STATEMENT OF THE JOINT PROGRAM

No Changes 4  Changes 2  No Response

• Change which serve the needs of …..to serves the needs of interested students.
• The students are well trained in digital systems. Maybe add section for power systems.

2. PROGRAM OBJECTIVES FOR ELECTRICAL ENGINEERING

No Changes 2  Changes 1  No Response 2

• Students should have take EIT prior to graduation.
• More power systems. Make students take EIT prior to finishing school.
• Growth will be beneficial.

3 PROGRAM OBJECTIVES FOR COMPUTER ENGINEERING

No Changes 6  Changes 0  No Response 1

4. RELATION TO THE JOINT PROGRAM

2 EAC Member/Employer; 1 Employer; 3 Employer/Co-op Employer; 1 Graduate Program Director
B.2 Spring 1999 Survey Results

Date Sent: 2/18/99  Number Sent: 54  Number of Response 7

Please rate your level of agreement with each of the following statements by circling the number in the column of your response:

The graduates of the UF/UWF Joint Program in Florida Electrical and Computer Engineering program are well prepared to:

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>3 (43%)</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer's needs</td>
<td>3 (43%)</td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>3 (43%)</td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>understand my professional and ethical responsibilities</td>
<td>4 (57%)</td>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>understand the impact of engineering solutions in a global societal context</td>
<td>2 (29%)</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>13%</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>3 (43%)</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>understand contemporary engineering issues</td>
<td>3 (47%)</td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

2. What do you consider to be the greatest strength of our undergraduate program?
   - Elec. Eng. Theory
   - Object oriented programming
   - Working in different groups of people. Challenging projects

3. What do you consider to be the greatest weakness of our undergraduate program?
   - No hands on experience for most graduates
   - Need more hands on experience in the program

4. What one or two specific curriculum changes would you recommend? Why?
   - Require more design projects for hands on experience. Require more writing skills and communication skills.
   - Emphasize software design before implementation.
   - Make C programming a required course.

Appendix VI - 15
C. SUMMARY OF ENGINEERING ADVISORY COUNCIL SURVEYS

C.1 Spring 2006 Survey Results

Date Sent: 01/24/06  Number Sent: 33  Number of Response: 4

Please rate your level of agreement with each of the following Educational objectives by checking the column of your response by a mark, x

<table>
<thead>
<tr>
<th>#</th>
<th>Accomplishments of our educational objectives</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a.</td>
<td>Develop electrical engineering solutions either individually or through interdisciplinary teams within a global and societal context.</td>
<td>1 (25%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>2 (50%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>1b</td>
<td>Develop computer engineering solutions either individually or through interdisciplinary teams and act accordingly within a global and societal context.</td>
<td>1 (25%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>2 (50%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>2.</td>
<td>Professionally and ethically, engage in technical or business activity through engineering ability, communication skills, and knowledge.</td>
<td>1 (25%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>2 (50%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>3.</td>
<td>Continue professional growth through post-graduate education, continuing education, or professional activity.</td>
<td>2 (50%)</td>
<td>0</td>
<td>0</td>
<td>2 (50%)</td>
<td>5 (100%)</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Contribute to the Northwest Florida regional economic development.</td>
<td>1 (25%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>2 (50%)</td>
<td>4 (100%)</td>
</tr>
</tbody>
</table>

2. Do you think that our educational objectives (as listed above) are sound, sufficient, achievable and appropriate to the practice of electrical and computer engineering? 3 (60%) YES 2 (40%) NO, suggest changes. If NO, what changes and/or modifications would you suggest?

Consider modifying
Continue professional growth and life-long learning through post-graduate education, continuing education, or professional activity.

- I know it may be splitting hairs, but if this is the formal statement of educational objectives, you may want to consider the following changes:
- 1a Original: Develop electrical engineering solutions either individually or through interdisciplinary teams within a global and societal context.
- 1a Alternate: Develop electrical engineering solutions both individually and through interdisciplinary teams within a global and societal context.

Rationale: In today’s environment (for too many reasons to describe here) being able to function effectively in a team is essential. The original statement implies it is acceptable for the student to learn how to work either individually or in a team, when in reality, when they leave UWF, they should be fully capable and experienced in working with both.

1. 1.b Original: Develop computer engineering solutions either individually or through interdisciplinary teams and act accordingly within a global and societal context.
2. 1.b Alternate: Develop computer engineering solutions either individually or through interdisciplinary teams and act accordingly within a global and societal context.
3. I currently have no UWF graduates under my supervision. I have had UWF graduates in my prior positions, and found them to be well prepared to function in the EE and CompE technical areas.

Do you have any suggestions for improving our curriculum (courses, laboratories, computer facilities) so that we could better meet our objectives?
- Make sure the laboratories and curriculum provide a wide range of applications, e.g. Component design, chemical process control, mechanical process control, statistical control, power distribution, etc. Also, graduates should be familiar with general business and project management concepts.

Continue improving and promoting the facilities and classes at the FWB campus.
- Continue working with Government and private industry personnel in the Eglin AFB area to determine additional course requirements and focus.
Not at this time

Continue to evolve curriculum to stay abreast of new software engineering languages and techniques.

4. What do you consider to be the greatest strengths and/or weakness of our undergraduate programs? Candidates graduate with a good academic background. This could be improved by developing co-op programs or internships with local businesses so that students understand their application of the academics to the daily work environment. While I have not attended a UWF class in quite a while, I attended the university, the smaller class sizes were a major strength. From what I understand, class sizes are still relatively small. If that is still the cases, I would say small class sizes are strength.

Strong academic skills and ready to function in the workplace.

While I do not have any EEs working for me I do have 4 of UWF computer science graduates working under my supervision. I am a graduate of State University of New York at Buffalo with a BSEE. I would note that while we currently have only hired CS graduates, some of the best programmers I have worked with have come from the Electrical Engineering and other Engineering disciplines. Much of the programming we do is very technical in nature and EES generally have a better grasp of the physical principles and constrains of the systems we are writing code for. I would suggest that perhaps your EE program could emphasize the opportunities Ees have as programmers.
C.2  Spring 2005 Survey Results
Summary of Emailed Questions to EAC
Spring 2005

1. What are the strengths of our graduates?
   - Can’t Answer
   - Hardworking, teamwork skills
   - I believe UWF graduates have had access to more individual attention that students at other schools and therefore can receive a better education.

2. What areas can be improved?
   - Can’t Answer
   - Technical writing skills
   - Don’t know – haven’t been a student or worked with a student recently.

3. What areas are most/least important to your company/the Northwest Florida region?
   - Electrical Engineers, Computer Science, Mechanical, Systems
   - N/A
   - Engineering, Business, Scientific/Technical

4. What additional experiences/preparations do you value?
   - Intern experience is valuable (experience can distinguish a new grad from others)
   - Problem solving skills, using knowledge from a combination of classes to accomplish a design
   - Managing and completing projects in which students must apply principles of the course of study, evidence that the student can apply principles creatively and successfully, some appreciation of safety and environmental impacts of their work.

5. What on-the-job training do you provide?
   - The majority of our training is OJT through assigned work tasks with a mentor as guidance
   - N/A
   - Safety training, business system training, project handling

6. Do you foresee any changes in the mission statement and goals of the UF/UWF Joint Programs?
   - Can’t answer. I don’t know the current mission statement.
   - No
   - Only if necessary to incorporate the values above.

7. Do you see and changes that may need to be made or considered with the program objectives? If so, what would be your suggestion?
   - None at this time.
   - The Computer Engineering program objectives should be converted into the format of the objectives for Electrical Engineering (bulleted list as opposed to paragraph format)
   - Only if necessary to incorporate the values above.

8. Do you see any changes that may need to be made or considered with the program outcomes? If so, what would be your suggestion?
   - None at this time.
   - No
   - Only if necessary to incorporate the values above.
9. Do you see any other issues that may need to be discussed? Is consideration being given to addition of other programs? If so, what area(s)?

- The requirements for honors graduation after the program is turned over to UWF need to be addressed because current UWF requirements for honors graduation is just GPA without any kind of project. I believe that the project requirements should remain in effect because it enhances the meaning of graduation with honors and is an excellent learning opportunity for students. Also, the UWF honors GPA cutoffs are different from that of UF and the GPA is based off of a student’s overall GPA rather than their departmental GPA. The impact of these changes needs to be discussed and resolved as soon as possible because there are students currently at UWF who will be graduation with UWF engineering degrees.

- I think the department should aggressively pursue interdisciplinary opportunities with other UWF departments and regional institutions. Push the envelope – why not developmental interfaces with communications, music, chemistry, biology, business, agriculture, or even other industries?
From: Carlan, Charles [mailto:Charles.Carlan@hatchmott.com]
Sent: Monday, January 31, 2005 2:49 PM
To: Sherry Whitlock
Subject: RE: REMINDER: Engineering Advisory Council Meeting/Feb. 4

Sherry: The reason I did not respond to the quality of graduates is that we haven't hired any. We offer civil, structural and environmental engineering. I did suggest that we add civil as soon as possible.

From: Hayes, Robert B [mailto:robert.b.hayes@boeing.com]
Sent: Wednesday, February 02,2005 6:32 AM
To: Sherry Whitlock
Subject: RE: EAC meeting questions

Sherry,

These are also a bit late. Sorry. See you on Friday.

Robert

-----Original Message-----
From: Sherry Whitlock [mailto:swhitloc@uwf.edu]
Sent: Tuesday, January 18, 2005 4:26 PM
To: Hayes, Robert B
Subject: FW: EAC meeting questions

Dear Members,

The following questions need your consideration. Please send me your answers to these questions. Also in the previous e-mail your choice(s) by rank on another engineering field you would prefer offered at this institution. Include rationale for each choice.

1. What are the strengths of our graduates? Can't answer
2. What areas can be improved? Can't answer
3. What areas are most/least important to your company/the Northwest Florida region? Electrical Engineers, Computer Science, Mechanical, Systems
4. What additional experiences/preparations do you value? Intern experience is valuable (experience can distinguish a new grad from others)
5. What on-the-job training do you provide? The majority of our training is OJT through assigned work tasks with a mentor as guidance
6. Do you foresee any changes in the mission statement and the goals of the UF/UWF Joint Programs? Can't answer. I don't know the current mission statement
7. Do you see any changes that may need to be made or considered with the program objectives? If so, what would be your suggestion? None at this time
8. Do you see any changes that may need to be made or considered with the program outcomes? If so, what would be your suggestion? None at this time
9. Do you see any other issues that may need to be discussed? Is consideration being given to addition of other programs? If so, what area(s)?

Sherry,

Slightly late, but here are my responses to these questions

Robert

-----Original Message-----
From: Sherry Whitlock [mailto:swhitloc@uwf.edu]
Sent: Tuesday, January 18, 2005 4:24 PM
To: Hayes, Robert B
Subject: FW: EAC meeting (Feb. 4) and survey

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Hello Robert,

The EAC will be having a meeting on February 4. The topics will be 1) New Engineering programs, 2) Accreditations and program feedback, 3) update on campaign.

UWF should plan to add a new engineering program. Please list and give rationale in order of preference.

Engineering Program: 1) Systems Engineering 2) Mechanical Engineering 3)

Rational: Large need in industry for Systems engineers; Mechanical Engineering is a local need that is a good compliment to round out the current programs.

From: Laura Solari [mailto:lfs4@students.uwf.edu]
Sent: Thursday, January 20, 2005 3:13 PM
To: Sherry Whitlock
Subject: RE: EAC meeting questions

Sherry,

The questions are answered below. I can not guarantee that I answered the same way on the hardcopy.

1. What are the strengths of our graduates?
   hardworking, teamwork skills

2. What areas can be improved?
   technical writing skills

3. What areas are most/least important to your company/the Northwest Florida region?
   n/a

4. What additional experiences/preparations do you value?
   problem solving skills, using knowledge from a combination of classes to accomplish a design

5. What on-the-job training do you provide?
   n/a

6. Do you foresee any changes in the mission statement and the goals of the UF/UWF Joint Programs?
   no

7. Do you see any changes that may need to be made or considered with the program objectives? If so, what would be your suggestion?
   The Computer Engineering program objectives should be converted into the format of the objectives for Electrical Engineering (bulleted list as opposed to paragraph format).

8. Do you see any changes that may need to be made or considered with the program outcomes? If so, what would be your suggestion?
   no

9. Do you see any other issues that may need to be discussed?
   The requirements for honors graduation after the program is turned over to UWF need to be addressed because the current UWF requirement for honors graduation is just GPA without any kind of project. I believe that the project requirement should remain in effect because it enhances the meaning of graduation with honors and is an excellent learning opportunity.

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for students. Also, the UWF honors GPA cutoffs are different from that of UF and the GPA is based off of a student's overall GPA rather than their departmental GPA. The impact of these changes needs to be discussed and resolved as soon as possible because there are students currently at UWF who will be graduating with UWF engineering degrees.

Laura Solari
-----Original Message-----
From: Sherry Whitlock
Sent: Thu 1/20/2005 10:11 AM
To: Laura Solari
Cc: 
Subject: RE: EAC meeting questions

The Director would like a soft copy of your answers. Is that possible?

From: Laura Solari [mailto:lfs4@students.uwf.edu]
Sent: Tuesday, January 18, 2005 3:12 PM
To: Sherry Whitlock
Subject: RE: EAC meeting questions

Sherry,

Below are my answers to the EAC questions. I answered the other questions on the hardcopy that was mailed to me.

Future engineering programs in preferred order:

1. Mechanical Engineering - This is the second most popular engineering discipline (next to Electrical Engineering), so it would be most likely to attract the most students. It would benefit our existing engineering programs the most by providing additional resources for our robotics program. An aerospace program could spawn from it in the future.

2. Environmental Engineering - Existing environmental laboratories and professors could be utilized. This would enhance UWF's growing environmental science programs. This is a relatively new engineering discipline that is generally offered at larger universities, so UWF, a smaller school, may attract students who want the small-school atmosphere.

3. Chemical Engineering - This is one of the more popular engineering disciplines. Many existing chemistry laboratories and professors could be utilized, and the program would supplement UWF's existing chemistry program.

Laura Solari

From: Skinner, Tom [mailto:Tom.Skinner@reichhold.com]
Sent: Tuesday, January 18, 2005 5:23 PM
To: 'Sherry Whitlock'
Subject: RE: EAC meeting questions

What are the strengths of our graduates? I believe UWF Graduates have had access to more individual attention that students at other schools and therefore can receive a better education.

2. What areas can be improved? Don't know - haven't been a student or worked with a student recently.

3. What areas are most/least important to your company/the Northwest Florida region? Engineering, Business, Scientific/Technical

4. What additional experiences/preparations do you value? Managing and completing projects in which students must apply principles of the course of study, evidence that the student can apply the principles creatively and successfully, some appreciation of safety and environmental impacts of their work

5. What on-the-job training do you provide? Safety training, business system training, project handling

6. Do you foresee any changes in the mission statement and the goals of the UF/UWF Joint Programs? Only if necessary to incorporate the values above.

7. Do you see any changes that may need to be made or considered with the program objectives? If so, what would be your suggestion? Only if necessary to incorporate the values above.

8. Do you see any changes that may need to be made or considered with the program outcomes? If so, what would be your suggestion? Only if necessary to incorporate the values above.

Appendix VI - 22
9. Do you see any other issues that may need to be discussed? I think the department should aggressively pursue interdisciplinary opportunities with other UWF departments and regional institutions. Push the envelope - why not developmental interfaces with communications, music, chemistry, biology, business, agriculture, or even other industries?

Tom Skinner
Technical Manager
Reichhold, Inc
425 S. Pace Blvd
Pensacola, FL 32591
USA
Phone: 850-433-7621 x-311
Fax: 850-444-7652

From: Skinner, Tom [mailto:Tom.Skinner@reichhold.com]
Sent: Friday, January 14, 2005 6:05 PM
To: 'Sherry Whitlock'
Subject: RE: EAC meeting (Feb. 4) and survey

Brief responses below. am planning to attend.

Hello Everyone,

The EAC will be having a meeting on February 4.
The topics will be 1) New Engineering programs, 2) Accreditations and program feedback, 3) update on campaign.

UWF should plan to add a new engineering program. Please list and give rationale in order of preference.

Engineering Program: 1) Mechanical ________________
                        2) Chemical ________________
                        3) Biotech ________________

Rational: Mechanical would have good interdisciplinary potential with electrical; chemical has good interdisciplinary potential with electrical, computer and chemistry; and biotech is hot with synergies with chemistry, biology, and UF Agricultural at PJC Milton Campus.

Please confirm your attendance at the meeting for the Engineering Advisory Council (EAC) on February 4, 2005. The meeting will begin at 8:00 a.m. and end at approximately 9:00 a.m. (coffee and doughnuts will be available).

DIRECTIONS:

PENSACOLA: UWF distance learning classroom, building 70, room 106
(from University Pkwy campus stop light take a right and then a left at the next light.
After the red gas pumps on the left, take the next left which is the engineering

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duplicating parking lot 33. If lot is full, you can park across the street in lot 37 which is in front of the soccer field.)

Car tags will not be needed on the Pensacola campus for this meeting. (Ticket writing will be suspended from 8am to 10am for P'cola campus, lot 33 and 37). If you do receive a ticket, please send it to me, and I will take care of it.

or

FWB:UWF distance learning classroom, building 7, room 703

Car tags will not be needed on the FWB campus for this meeting. When entering campus, turn left and park in front of building 6. You will see a sign that reads "computer lab," leading you behind building 6, and that is where building 7 is located. Room 703 is on the 1st floor. If you do receive a ticket, please send it to me, and I will take care of it.

Attached are the minutes from the last meeting of Feb. 6, 2004, and the agenda for the meeting. Please RSVP at 474-3410 or e-mail:swhitloc@uwf.edu by Tuesday, Feb. 1, 2005.

Sincerely,

Sherry Whitlock
Academic Advisor
Electrical and Computer Engr.
Building 70, Room 116
11000 University Parkway
Pensacola, FL 32514-5754
850/474-3410
866/340-5886 (Toll Free)
www.ece.uwf.edu

(softcopy location: c/form.ltr.ABEToutcome.newmajor.EACanswers.05)
C.3 Fall 2002 Survey Results

Date Sent: 9/24/02
Number Sent: 
Number of Responses 4

1. Please rate your level of agreement with each of the following statements by circling the number in the column of your response: Highly recommended by firms which have graduates.

The graduates of the UF/UWF Joint Program in Florida Electrical and Computer Engineering program are well prepared to: 4 responses

<table>
<thead>
<tr>
<th>Ability</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply knowledge of mathematics, science, and engineering skills</td>
<td>1 (25%)</td>
<td>3 (75%)</td>
<td>0 (%)</td>
<td>0</td>
<td>0</td>
<td>0 (0%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>design systems, components or processes to meet my employer's needs</td>
<td>1 (25%)</td>
<td>3 (75%)</td>
<td>0 (%)</td>
<td>0</td>
<td>0</td>
<td>0 (0%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>function on multi-disciplinary teams</td>
<td>1 (25%)</td>
<td>2 (50%)</td>
<td>0 (%)</td>
<td>0</td>
<td>0</td>
<td>1 (25%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>understand my professional and ethical responsibilities</td>
<td>1 (25%)</td>
<td>3 (75%)</td>
<td>0 (%)</td>
<td>0</td>
<td>0</td>
<td>0 (0%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>understand the impact of engineering solutions in a global societal context</td>
<td>0 (%)</td>
<td>2 (50%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>1 (25%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>apply the techniques, skills and modern engineering tools necessary for good engineering practice</td>
<td>0 (%)</td>
<td>3 (75%)</td>
<td>0 (%)</td>
<td>0</td>
<td>0</td>
<td>1 (25%)</td>
<td>4 (100%)</td>
</tr>
<tr>
<td>understand contemporary engineering issues</td>
<td>0 (%)</td>
<td>2 (50%)</td>
<td>1 (25%)</td>
<td>0</td>
<td>0</td>
<td>1 (25%)</td>
<td>4 (100%)</td>
</tr>
</tbody>
</table>

5. What do you consider to be the greatest strength of our undergraduate program?
   ♦ Mature graduate.
   ♦ Broad cross section of students, ex military.
   ♦ Strong background.
   ♦ Simply the fact that an undergraduate engineering program is offered in a small community. Now students can get a BS Engr., get a job, & continue engineering studies at the graduate level.

6. What do you consider to be the greatest weakness of our undergraduate program?
   ♦ Lack of other engineering disciplines...mechanical, civil, chemical.
   ♦ Power
   ♦ Trying to build a great technical reputation amongst established technical community with strong allegiance to Auburn, UF, MSU, etc.

7. What one or two specific curriculum changes would you recommend? Why?
   ♦ Computer Engineering – An overview of the real-time software development process (CMM/SEI) (System Engineering).
   ♦ Electrical Engineering – An overview of electrical systems development process (CMMI)
SUMMARY OF ENGINEERING ADVISORY COUNCIL SURVEY
QUESTIONNAIRES FOR PROGRAM OBJECTIVES

Changes No Changes (6) No Response (6)

MISSION STATEMENT OR THE JOINT PROGRAM
No comments

Changes No Changes (5) No Response (6)

1. PROGRAM OBJECTIVES FOR ELECTRICAL ENGINEERING
   • Possible enhancement of program to include training on software applications currently utilized by employers for graduates.
   • Cannot emphasize the importance of general physics, chemistry knowledge.

Changes No Changes (5) No Response (6)

2. PROGRAM OBJECTIVES FOR COMPUTER ENGINEERING
   • Same as above
   • Same as above

4. Relation to the Joint Program
   EAC Member (4) Employer (2) Co-op Employer (1)