

Five-Year Assessment and Program Evaluation Report

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B. Academic Major/Program

1. Results of any licensure examination

Over the past three year period two students (graduates) past the Professional Engineering Examination (PE), while 6 students were successful in passing the Fundamentals of Engineering Examination (FE).

2. Accreditation reviews

The last accreditation review for the program was in 2000. The result of the review was excellent without any concerns or weaknesses. The program was therefore granted the six (6) year maximum accreditation allowed by the Accreditation Board for Engineering and Technology (ABET).

3. Internal program reviews (outside consultant)

The program was given excellent review by an outside consultant. his comments and suggestions were incorporated in the self-study document sent to ABET. Prior to that the program/department was reviewed by the Commission on Southern Association of Colleges and Schools. In this review each program was asked to delineate work assigned to graduate students for classes at the 600 levels that enroll both undergraduate and graduate students. Graduate students were required to do more difficult assignments and additional exam qualities.

4. Retention and graduation rates

Over the past 3 years the retention rate and graduation rates were about 70%. For those students in the junior and senior years of their matriculation, the graduation rates were 100% over the past three years.

Table 1 Retention and graduation rates in BioE Program

Year	Number of New Students Recruited	Retention	Graduation
2001	16	50%	7
2002	8	63%	7
2003	12	50%	6
2004	14	60%	3
2005	6	100%	7
Average		65%	6

5. Graduates (alumni surveys)

All graduates are gainfully employed and most are engaged in life-long learning. Alumni surveys have been met with great satisfaction and comments to include some models such as RUSLE and HECRAS have been adopted.

6. Continuous education and employment

Most of our graduates (51%) have gone to graduate school. In the past three years, three have completed the PhD degree with three that are Ph.D. candidates. There are several students that are pursuing the M.S. degrees. All others are gainfully employed and are performing very well in such that many employers are now seeking graduates from our program.

7. Results of employer surveys (if available)

This shows satisfaction of employers but there is a concern about communication skills, defining a problem, and problem analysis.

8. Evaluation of student experiences

Many students who have been on internships/summer employment express positive experience. While some were concerned that they were not challenged in the area of their major courses, they said the experience was good and rewarding. Experiences were with private and governmental organizations. Some students were exposed to international experience and recommend that all students should have such experience. The SAES and the COE strongly encouraged globalizing the curriculums and for students to experience the international flavor of education as well as cultures of other countries.