

—IE Measures—  
 Department Chair: **Dr. Glenn Cunningham**  
 Date Submitted: **July 2000**  
 Department Name: **Chemistry**  
 Participating Faculty: **Drs. Ballantyne, Belfield, Cunningham, Clausen, Elsheimer, Hampton, Geiger, Kujiawa, Madsen, Matsui, McGee, Miles, Phanstiel, Price, Richardson, Fookes**

**Program Name & CIP Code: Forensic Science, CIP #43.0106      Level (U or G): Bachelor**

*Example of Linkage between Expanded Statement of Institutional Purpose,  
 Departmental/Program Intended Outcomes/Objectives, Assessment Criteria and Procedures,  
 Results, and Use of Results at our University*

Expanded Statement of Institutional Purpose	Departmental/Program Intended Outcomes/Objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
Mission Statement:  The Department of Chemistry seeks to expand the unique and nationally recognized B.S. Forensic Science Program into graduate level education. The current Chemistry/Biochemistry chemes will extend into Forensic Anthropology and Forensic Technology activities to match the national professional needs.	1. 70% of graduates in Forensic Science will pass the American Board of Criminalists exam.	1. Students in their final year will take the National Examination of the American Board of Criminalists.	1. This is a new test that will be taken by Forensic Science students for the first time in the Fall of 1999.	1. No results in the current cycle.

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Expanded Statement of Institutional Purpose	Departmental/Program Intended Outcomes/Objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
<p>Vision Statement:            The program has a multidisciplinary mission to provide an outstanding educational experience for future forensic scientists.</p>	<p>2. Eighty percent of graduates will demonstrate abilities in three skill areas: (a) to plan and to conduct a scientific investigation within a crime laboratory context, (b) to analyze the results of a scientific investigation and to draw conclusions as to the validity of the data, and (c) to submit a report of the investigation, methodology and conclusions in a manner acceptable to the Court.</p>	<p>2. (a) All students will complete a six hundred hour internship in an accredited ASCLAD laboratory, working under the supervision of an experienced Senior Forensic Scientist. The supervisor submits a written assessment of the student's performance in three selected skill areas mentioned in column 2.</p>	<p>2. (a) Assessment based upon a scale of 0-5 conducted by the professional supervisor            Percentage of students' achievement level in skill areas (a), (b), and (c) mentioned in column 2 on scale of 0-5 (based upon previous twelve months data):            0 1 2 3 4 5            (a) 0 0 0 4 10 86            (b) 0 0 0 0 15 85            (c) 0 0 5 0 15 80</p>	<p>2 (a) Data reviewed by faculty. The results confirm the relevance of the curriculum in meeting the professional needs of forensic scientists. Internship assessment provided to Human Resources division, if requested, at recruitment. Objectives met. We will continue the monitoring process.</p>
	<p>2. (b) All students write a paper upon a research/investigative topic, styled upon the American Academy of Forensic Sciences Journal guidelines. The review of the three selected skill areas mentioned in column 2, by the supervisor and faculty is scored on a 0-5 scale.</p>	<p>2. (b) Conclusions: students have limited skills in drawing conclusions from data recorded; literacy skills must be improved.</p>	<p>Assessment by lab supervisor (scale is 0-4):            0 1 2 3 4            (a) 0 0 0 25 75            (b) 0 0 25 25 50            (c) 5 10 10 25 50</p>	<p>2 (b) Faculty have instituted measures to improve both analytical skills and literacy values using seminars and detailed reports of laboratory exercises.</p>

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Expanded Statement of Institutional Purpose	Departmental/Program Intended Outcomes/Objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
	<p>3. Students will comprehend the ethical and legal issues essential to their career paths. It is anticipated that seventy percent of graduates will meet professional standards on the first attempt.</p>	<p>3.(a) Student understanding of the ethical and legal issues of the profession will be evaluated by a panel of Forensic Science experts upon interview with the student. Candidate's knowledge of issues concerning analysis of controlled substances is the topic utilized.</p> <p>3. (b) All students undertake a review of current legal issues and prepare a presentation for assessment by a three member Forensic Science forum each semester beginning with Fall 1999.</p>	<p>3. (a) 100% (42 candidates) were assessed as competent.</p> <p>3. (b) New procedures waiver sought.</p>	<p>3 (a) Faculty will continue to monitor student performance as a value benchmark of subject matter presented in the program.</p> <p>3 (b) Objectives are being met. Faculty continues the monitoring process.</p>