Expected Outcomes: Fundamental Understanding

Auburn graduates with a major in Medical Technology or Laboratory Technology (Dept. of Chemistry and Biochemistry) will have a basic understanding of the fundamental laws of nature and the ability to apply them to real-world situations

Related typical general education outcomes:

2  Analytical and Critical Reading
7  Written Communication

Assessment methods

Method: Departmental exam

Auburn graduates with a Major in Medical Technology and Laboratory (Department of Chemistry and Biochemistry) will take a certification exam after completing their clinical internship off campus to determine if they have a basic understanding of the fundamental laws of nature and the ability to apply them to real-world situations.

Findings:

60% were extremely well-prepared in basic and general knowledge with 40% well-prepared and 0% not well-prepared. These percentages have increased from 2009: 0% extremely well prepared, 60% well-prepared and 40% not prepared.

How did you use findings for improvement?

The findings from 2009 were used in 2010 to: rewrite lectures, rewrite lab exercises and create ways for students to involve themselves in learning outside the class time.

Additional comments:

As one can see, the exam scores went up and improvements were made.

Method: Exit Interview

Auburn graduates with a major in Laboratory and Medical Technology (Department of Chemistry ad Biochemistry) will do an exit interview where they will assess if they have a basic understanding of the fundamental laws of nature ad the ability to apply them to real-world situations.

Findings:

58% were extremely well-prepared in basic and general knowledge with 33.1% well-prepared; and 8% were somewhat prepared.

How did you use findings for improvement?

These findings show improvements from 2011 so no improvements were necessary..

Additional comments:
Instructional videos have been made of the laboratory experiments which must be viewed prior to coming to the lab. This should give students a better fundamental understanding.

### Expected Outcomes: Problem-solving skills

Students will acquire problem-solving skills that are related to a broad spectrum of careers.

**Related typical general education outcomes:**

- Analytical and Critical Reading
- Ability to Solve Open-Ended Problems
- Scientific Literacy

**Assessment methods**

**Method:** Exit Interview

Auburn graduates with a major in Laboratory and Medical Technology (Department of Chemistry and Biochemistry) will do an exit interview where they will assess if they have a basic understanding of the fundamental laws of nature and the ability to apply them to real-world situations.

**Findings:**

58% were extremely well-prepared and 33% were well-prepared, 8% were prepared. None thought they were not prepared well in problem-solving skills.

**How did you use findings for improvement?**

More opportunities were made available for the students in 2010 to teach younger students some of the same problem-solving skills the Auburn LABT/MEDT students learned by involving them in outreach opportunities through the College of Science and Mathematics. The same opportunities still exist for 2011/2012.

**Additional comments:**

None

### Expected Outcomes: Laboratory Experience

Auburn graduates in Laboratory and Medical Technology (Dept. of Chemistry and Biochemistry) will acquire relevant experience, techniques and skills for safely working in a laboratory environment.

**Related typical general education outcomes:**

- Scientific Literacy

**Assessment methods**

**Method:** Exit Interview

Auburn graduates with a major in Laboratory and Medical Technology (Department of Chemistry and Biochemistry) will do an exit interview where they will assess if they have a basic understanding of the fundamental laws of nature and the ability to apply them to real-world situations.

**Findings:**
67% were extremely well-prepared to work safely in a clinical laboratory while 33% were well-prepared. None thought they were not well-prepared.

**How did you use findings for improvement?**

Improvement was made by finding more creative ways of giving lab experiences similar to clinical laboratory settings to simulate real world experiences. Instructional videos have been made for all the labs, including laboratory safety. To prove increased knowledge, video quizzes were also instituted.

**Additional comments:**

None