Assessment: Assessment Plan

TEXAS TECH UNIVERSITY
Office *of the* Provost
Office *of* Planning & Assessment

Degree Program - AS - Chemistry (BA)

CIP Code: 40.0501.00
Disciplinary Accrediting Body: American Chemical Society
Degree Program Coordinator: Bill Poirier
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Program Purpose Statement: The Bachelor of Arts in chemistry has a curriculum primarily designed for the student who is interested in using an undergraduate major in chemistry as the background for a career in which extensive training in chemistry is either valuable or essential.

Modality: Face-to-Face

Student Learning Outcome: proficiency in laboratory skills

Graduates from this program will demonstrate proficiency in laboratory skills (including knowledge of safety and ethics).

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 06/15/2015

Assessment Methods

Capstone Assignment/Project - The assessment will be based on a capstone laboratory-based course, which will offer a variety of assessment methods. The assessment methods in the capstone laboratory course will evaluate laboratory skills using a technical written report of a laboratory project. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017. More details can be found in the related document. (Active)

Criterion: To be determined

Related Documents:
Revision of Degree Assessments

Capstone Assignment/Project - The assessment will be based on a capstone laboratory-based course, which will offer a variety of assessment methods. The assessment methods in the capstone laboratory course will evaluate safe laboratory skills using a written report documenting a full safety analysis prior to commencing the laboratory based project. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017. More details can be found in the related document. (Active)

Criterion: To be determined

Capstone Assignment/Project - The assessment will be based on a capstone laboratory-based course, which will offer a variety of assessment methods. The assessment methods in the capstone laboratory course will be used evaluate the ability to utilize appropriate analytical characterization. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017. More details can be found in the related document. (Active)

Criterion: To be determined

Student Learning Outcome: Marketability

Graduates from this program will be able to obtain positions in industry, sales, professional schools, or any other areas for which chemistry is an essential knowledge base.

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Outcome Status: Active
Outcome Type: Student Learning
Start Date: 08/01/2017

Assessment Methods

The marketability of the student will be assessed mainly by an exit interview. A standardized interview survey is under development and is tentatively scheduled to be administered using a web based platform starting in fall 2016. More details can be found in the related document (Active)

Criterion: To be determined

The long term marketability of the student will be assessed by a three year post graduation survey. A standardized survey is under development and is tentatively scheduled to be administered using a web based platform starting in fall 2017. More details can be found in the related document.

(Active)

Criterion: To be determined

Student Learning Outcome: Strong Content Knowledge

Graduates from this program will demonstrate content knowledge in five of the traditional sub-disciplines of chemistry and their applicable labs: analytical, biochemistry, inorganic, organic, and physical chemistry, including both small molecules and macromolecules and undergraduate research as appropriate. The curriculum also includes experiences that develop student skills essential for their effective performance as scientific professionals. Development of competence in other critical skills necessary for a professional chemist, include: Problem Solving Skills, Chemical Literature and Information Management Skills, Laboratory Safety Skills, Communication Skills, Team Skills, and Ethics. The assessments are performed within individual courses and through capstone courses and labs, as described in other sections of this document.

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 08/01/2017

Assessment Methods

Capstone Assignment/Project - - The assessment will be based on a capstone classroom course, which will offer a variety of assessment methods. The assessment methods in the capstone course will evaluate communication via a technical oral presentation. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017. More details can be found in the related document. (Active)

Criterion: To be determined

Capstone Assignment/Project - The assessment will be based on a capstone classroom course, which will offer a variety of assessment methods. The assessment methods in the capstone course will evaluate communication literacy using a technical writing project. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017. (Active)

Criterion: To be determined

Capstone Assignment/Project - Global competency will be assessed based on a capstone classroom course, which will offer a variety of assessment methods. This course is under development by the undergraduate curriculum committee and is scheduled to start fall 2017 (Active)

Criterion: To be determined

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Exam - Students will demonstrate mastery of subject content and problem solving ability in the program. Global content assessment will be undertaken by nationally normalized examination in General, Analytical, Organic, Physical and Inorganic Chemistry that are available from the American Chemical Society which are administered in the appropriate courses. (Active)