

PROGRAM ASSESSMENT PLAN ~ 2013-14 through 2018-19

This document only needs to be updated when changes are made.

UNIT	COLLEGE OF ARTS AND SCIENCES
Department (if applicable)	CHEMISTRY
Degree/Program	Associate of Arts/Laboratory Science
Date Prepared	May 2017
Date Revised	5/24/17

PROGRAM MISSION

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Consistent with the mission of the University and the College of Arts and Sciences, the Department of Chemistry is dedicated to providing a broad spectrum of undergraduate students with the necessary understanding of chemical principles to become successful, contributing members of their social, professional and./or occupational communities.

Students entering chemistry come from diverse backgrounds and will apply their acquired chemical skills in equally diverse occupations. The Department of Chemistry addresses this diversity by focusing on individual student needs and goals through personal advising, small class sizes, individual instruction, hands-on experience with scientific instrumentation, and guided undergraduate research in analytical, biochemical, inorganic, organic, physical, and interdisciplinary areas. The Chemistry Department faculty is itself diverse and exemplifies commitment to learning and contributing by engaging in scientific research, presenting and publishing as well as volunteering to improve the quality of living in the larger Topeka community.

Beginning courses are designed to give the student an awareness and understanding of scientific chemical principles and problems. Advanced courses are planned to meet the specialized needs of students interested in graduate work, employment in private or public laboratories, teaching, medicine and health related professional fields. In total, the program provides graduates with the appropriate knowledge and skill foundation in preparation for graduate study, professional schools, careers in education, and/or chemical laboratories.

PROGRAM STUDENT LEARNING OUTCOMES (PSLO)

If the program has more than 6 PSLO, hit "Tab" in the last cell to add another row. Cells will expand to accommodate text.

Upon completion of the program students will be able to:

PSLO 1	Demonstrate a mastery of a broad set of chemical knowledge concerning the fundamentals in the basic areas of the discipline (analytical, biological, inorganic, organic, and physical chemistry) as appropriate for the individual major.
PSLO 2	Demonstrate an operating knowledge of a variety of modern scientific instrumentation and computational methods to analyze chemicals and chemical processes.
PSLO 3	Demonstrate safe chemical practices, including waste handling and safety equipment.

CURRICULUM MAP (Alignment)

List all courses required for program majors and indicate, where applicable, (using the following key) the PSLO with which they are associated.

T = Taught

X = Taught and Assessed

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A = Assessed						
<i>If the program has more than 6 PSLO, "Copy and Paste" rows from this table below the existing table, beginning with the row numbering the PSLO.</i>						
Required Courses	PSLO 1	PSLO 2	PSLO 3	PSLO 4	PSLO 5	PSLO 6
CH151 w/lab	X	T	X			
CH152 w/lab	X	X	T			
CH340	X					
CH342	T	X	T			

ASSESSMENT MEASURES (Method)						
<i>Indicate (mark with an X) the type of assessment used to evaluate each PSLO. Check as many boxes as apply. Programs should use at least 2 direct measures for each PSLO.</i>						
<i>If the program has more than 6 PSLO, "Copy and Paste" rows from this table below the existing table, beginning with the row numbering the PSLO.</i>						
	PSLO 1	PSLO 2	PSLO 3	PSLO 4	PSLO 5	PSLO 6
DIRECT						
Portfolio						
Performance Assessment (Art, Music, Theatre, etc.)						
Performance Assessment (Off campus experience – Clinical, Internship, Practicum, etc.)						
Professional Credentialing Exam						
Major Field Test or National Exam	X					
Course Embedded Assignment			X			
Project Evaluation (e.g. research)						
Course Grades	X	X				
Other ~ Lab Experiments/Reports		X				
INDIRECT						
Surveys						
Exit Interviews/Focus Groups						
Other – Chemistry Laboratory Accident Reports			X			

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THRESHOLD OF STUDENT SUCCESS

For each PSLO, list each measure separately and indicate the threshold of student achievement considered acceptable.

(example: 75% of students will receive B or better) - see Assessment Plan Guide for additional instructions.

Hit :Tab" in the last cell to add another row. Cells will expand to accommodate text.

PSLO	MEASURE	THRESHOLD
1	Major Field Test	Class average at the 50 th national percentile
	Course Grades	Course Average GPA 2.5
2	Course Grades	Lab Course Average GPA 2.5
	Lab Experiments/Reports	Average grade of 75% for lab report for those labs using data acquisition and analysis
3	Course Embedded Assignment	Average grade of 75% for "Safety Quiz" in CH 151
	Chemistry Laboratory Accident Reports	No more than 1% of laboratory students reporting a minor accident and/or injury. No major accidents or injuries.

DATA COLLECTION CALENDAR

Indicate how often assessment data are collected for each PSLO.

S=every semester

Y=every year

2=every other year

3=every 3 years, (etc.)

O-Other (please explain)

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	Frequency of Data Collection
PSLO 1	S
PSLO 2	S
PSLO 3	S

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ANALYSIS AND REPORTING CALENDAR

Indicate (mark with an X) the years in which each PSLO was/will be analyzed and reported.
Cycle will repeat after Year 6.

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	PSLO 1	PSLO 2	PSLO 3	PSLO 4	PSLO 5	PSLO 6
Year 1/2013-14	X					
Year 2/2014-15		X				
Year 3/2015-16			X			
Year 4/2016-17	X					
Year 5/2017-18		X				
Year 6/2018-19			X			

If field experiences are a significant part of the program, explicitly address how validity and reliability of the evaluation instrument is ensured.

Cell will expand to accommodate text.

NA

STAKEHOLDER INVOLVEMENT

Describe how stakeholders (faculty, students, alumni, advisory boards, community, etc.) are involved in the development, implementation, periodic review and continuous improvement of the Assessment Plan.

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Faculty are asked to review current WU department PSLOs and those from other institutions and provide input. Faculty are also asked to review and provide input on assessment for each PSLO.

PROGRAM ASSESSMENT PLAN REVIEW CYCLE

Indicate (mark with an X in column 2) the year(s) in which this Program Assessment Plan will be reviewed and indicate in column 3 (when applicable) when changes are made and addressed in the appropriate year's annual report.

Cycle repeats after Year 6.

	Program Assessment Plan Review	Were changes made and addressed in the Annual Report? <u>Yes</u> or <u>No</u> (update when applicable)
Year 1/2013-14	X	N
Year 2/2014-15		
Year 3/2015-16		
Year 4/2016-17	X (NEXT REVIEW IN 2022-23)	Yes
Year 5/2017-18		
Year 6/2018-19		