

## MULTI-YEAR ASSESSMENT PLAN

Department: Chemistry  
Chair: Michael Everest

Program Learning Outcomes	21-22	22-23	23-24	24-25	25-26	26-27	Assessment methods and tools	Benchmarks	Who is in charge?	How the loop will be closed /has been closed?
1. Core Knowledge		X			X		Administer ACS exams annually. Analyze in detail on three-year cycle.	The average performance on ACS National Exams will be at least in the 60th percentile.	Department chair coordinates discussion and work among all chemistry faculty.	Item analysis of individual exams will be used by faculty teaching those courses to modify classroom and laboratory activities accordingly.
2. Experimental Design			X			X	Administer lab exam to seniors in Physical Chemistry Lab.	Students will demonstrate their understanding of basic experimental design in a senior level physical chemistry laboratory assessment instrument.	Instructor of CHM-133-1	Several changes at the curricular level that we hope will improve our students' ability to "think like scientists" in the context of designing experiments.
3. Christian Connection	X			X			Administer essay exam in senior seminar course.	Most students will attain at least an <i>average</i> score (according to our grading rubric) on their senior integration of faith and learning paper as graded by two department readers. 30% of students will attain a <i>strong</i> score or higher.	Instructor of CHM-195-1	We adjusted one assignment (in CHM-131) to provide our students an opportunity to develop the skill of writing about faith while addressing a secular audience.

Key Questions							Means of inquiry and evaluation		Who is in charge?	Data-guided recommendations
1. How can we achieve equitable outcomes in General Chemistry?	X						Track participation in PLTL. Track success in CHM-005, including disaggregated data.		CHM-005 Instructors and Department Chairperson	(forthcoming)
2. What is the best way to scaffold writing within the curriculum?		X					Comparison institutions. Department faculty.	Retreat to plan writing across the curriculum.	All faculty.	(forthcoming)
3. Is the department adequately funded?			X				Assess inflation of consumables and depreciation of capital equipment	Sigma-Aldrich catalog. Historic data collected by D. Marten. Capital equipment estimates.	Department Chairperson.	(forthcoming)
GE Projects							Means of inquiry and evaluation		Who is in charge?	Data-guided recommendations
1.N/A										

**Discussion/Comments/Reflections:**

**Departmental Program Review Retreats**

Date	Agenda	Decisions made	Participants
Summer 2020	We met six separate times rather than one long retreat.	What data to collect, what it meant, and what we wanted to do about it. All related to six-year report.	All faculty.

Notes:

1. Adjust the Multi-Year Assessment Plan to your department six-year assessment cycle.

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2. Align your program-level assessment with the institutional or General Education assessment whenever possible: e.g., if your department has outcome aligned with the Quantitative Literacy ILO it should be assessed in the 2016-2017 academic year, etc.