**Assessment Plan/Updates:**

**Introduction Chemistry:**

In Introduction to Chemistry, a common exam is used. The exam is used as pre and post test, and at the end of semester we’ll do concept analysis. Faculty might see the need to change their approach of teaching certain concepts, or share their success in teaching specific topics. There will be changes made in the next semester exam if needed. Difficulties, or concepts with greater than 40% miss rates, are examined to determine the needed for curriculum changes. These changes may include added homework problem, worksheets, added instructions, or laboratory experiment to reinforce the concepts that are not producing the desired level of performance during assessment. To make sure we stay on the path and have clear view of our curriculum, we will do blind American Chemical Society (ACS) exam every 3-5 years. A blind test is given where neither the student nor the instructor has seen the exam prior to the time when the exam is administered.

**General Chemistry:**

In General chemistry I and II, American Chemical Society (ACS) exams are used as pre and post test for assessment tools. The post tests show nearly a doubling of the pre test results. Using exams from the ACS, a nationally known organization allows insight into the success of our curriculum, and currently, we have been very successful. On average, our students have performed at norm, if not above norm. Occasionally, the pretest for General Chemistry II is the ACS final given for General Chemistry I. This was done in an effort to spot weaknesses in the General Chemistry I knowledge by the students starting their semester in General Chemistry II. An attempt to minimize these weaknesses by additional instruction then can done in an effort to improve the success of the students taking the course.

**Organic Chemistry:**

In Organic Chemistry two types of assessment is performed:

1) Internal diagnostic study: Measure teaching efficiency.

2) American Chemical Society Exams: these exams are given as finals for Organic I and II. These give insight into how our curriculum compares to other institution on a national level.