

## CHEMISTRY Core Competencies

**Learning Outcome:**

Critical Thinking: Students will be able to examine, critique and synthesize information in order to arrive at reasoned conclusions.

**Outcome Measure:**

ETS Proficiency Profile Exam

**Criteria for Success (how do you judge if the students have met your standards):**

70% of the students will be marginal or proficient at Level 2 Reading/Critical Thinking.

**Aligned with DQP Learning Areas (circle one or more but not all five):**

1. Specialized Knowledge
2. Broad Integrative Knowledge
3. Intellectual Skills/Core Competencies
4. Applied and Collaborative Learning, and
5. Civic and Global Learning

**Longitudinal Data:**

	Percentage of Students Marginal or Proficient					
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
ETS Proficiency Profile Level 2 Reading	84.6%	90.5%	95.2%	96.0%	88.2%	95.0%

**Conclusions Drawn from Data:**

The criteria for success have been met for the six past academic years. Students are able to examine, critique and synthesize information in order to arrive at reasoned conclusions.

**Changes to be Made Based on Data:**

No changes to program.

**Rubric Used**

No rubric. We use the ETS Proficiency Profile test results.

## CHEMISTRY Core Competencies

**Learning Outcome:**

Written: Students will be able to effectively express ideas and information to others through written communication.

**Outcome Measure:**

ETS Proficiency Profile Exam

**Criteria for Success (how do you judge if the students have met your standards):**

80% of the students will be marginal or proficient at Level 2 Writing.

**Aligned with DQP Learning Areas (circle one or more but not all five):**

1. Specialized Knowledge
2. Broad Integrative Knowledge
3. Intellectual Skills/Core Competencies
4. Applied and Collaborative Learning, and
5. Civic and Global Learning

**Longitudinal Data:**

	Percentage of Students Marginal or Proficient					
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
<b>ETS Proficiency Profile Level 2 Writing</b>	<b>76.9%</b>	<b>85.7%</b>	<b>95.2%</b>	<b>88.0%</b>	<b>82.4%</b>	<b>90.0%</b>

**Conclusions Drawn from Data:**

The criteria for success were met in all years except for 2013-14, when 76.9% of the students were marginal or proficient at Level 2 Writing, just below the 80% criteria for success. Overall, students are able to effectively express ideas and information to others through written communication.

**Changes to be Made Based on Data:**

No changes to program.

**Rubric Used**

No rubric. We use the ETS Proficiency Profile test results.

## CHEMISTRY Core Competencies

**Learning Outcome:**

Quantitative Reasoning: Students will be able to solve problems that are quantitative in nature.

**Outcome Measure:**

ETS Proficiency Profile Exam

**Outcome Measure:**

ETS Proficiency Profile Exam

**Criteria for Success (how do you judge if the students have met your standards):**

90% of the students will be marginal or proficient at Level 2 Math.

**Aligned with DQP Learning Areas (circle one or more but not all five):**

1. Specialized Knowledge
2. Broad Integrative Knowledge
3. Intellectual Skills/Core Competencies
4. Applied and Collaborative Learning, and
5. Civic and Global Learning

**Longitudinal Data:**

	Percentage of Students Marginal or Proficient					
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
<b>ETS Proficiency Profile Level 2 Math</b>	<b>84.6%</b>	<b>95.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>94.1%</b>	<b>95.0%</b>

**Conclusions Drawn from Data:**

The criteria for success were met in all years except for 2013-14, when 84.6% of the students were marginal or proficient at Level 2 Math. Overall, students are able to solve problems that are quantitative in nature.

**Changes to be Made Based on Data:**

No changes to program.

**Rubric Used**

No rubric. We use the ETS Proficiency Profile test results.