

## Physics and Engineering 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):

75% 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			
	2012-13	2013-14	2014-15	2015-16
ETS Proficiency Profile Level 2 Critical Thinking	100%	100%	75%	77%

### Conclusions Drawn from Data:

Students are hitting the benchmark.

### Changes to be Made Based on Data:

The last two years the data has been lower than the previous two. We need to look into the questions on the assessment to try to identify if this is due to small sample size or if something else is happening in the curriculum.

### Rubric Used

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

## Physics and Engineering 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):**

75% 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 at Marginal or Proficient			
	2012-13	2013-14	2014-15	2015-16
ETS Proficiency Profile Level 2 Writing	100%	100%	75%	62%

**Conclusions Drawn from Data:**

Students are hitting the benchmark. However in the most recent year they missed the target (this is a matter of a single student difference because of the small sample size).

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

The department needs to review this data along side the writing data from senior seminar (see the other core competency file). We need to look into the questions on the assessment to try to identify if this is due to small sample size or if something else is happening in the curriculum.

**Rubric Used**

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

## Physics and Engineering Core Competencies

### Learning Outcome:

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

### Outcome Measure:

ETS Proficiency Profile Exam

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

95% of the students will be marginal or proficient at Level 2 Mathematics

### 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 at Marginal or Proficient			
	2012-13	2013-14	2014-15	2015-16
ETS Proficiency Profile Level 2 Mathematics	100%	100%	100%	100%

### Conclusions Drawn from Data:

The students hit the benchmark.

### Changes to be Made Based on Data:

None.

### Rubric Used

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