

# Assessment: Assessment Plan

## Degree Program - ENG - Bioengineering (MS)

**CIP Code:** 14.0501.00

**Degree Program Coordinator:** Brandon Weeks

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**Modality:** Face-to-Face

### Student Learning Outcome: Core Knowledge

Students will demonstrate advanced knowledge in a core area consistent with the focus of the program

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 06/15/2015

#### Assessment Methods

**Thesis -** A rubric will be used to evaluate the theses for Core Knowledge  
(Active)

**Criterion:** 80% of the theses will achieve or exceed the metric 4 (on a scale of 1-5 in rubric)

**Schedule:** During their final year if thesis option student

**Master's Comprehensive Exam -** Master's Comprehensive Exam A rubric will be used to evaluate the master's comprehensive exams for Core Knowledge  
(Active)

**Criterion:** 80% of the master's comprehensive exams will achieve or exceed the metric 4 (on a scale of 1-5 in rubric)

**Schedule:** In final year if coursework option MS

**Course Level Assessment -** Independent grades in associated classes (Active)

**Criterion:** Students must maintain at least a 3.0

### Student Learning Outcome: Research Methods and Analysis

Students will demonstrate quantitative and qualitative skills in the design, analysis, and presentation of research projects that is consistent with the focus of the program

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 06/15/2015

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## Assessment Methods

**Thesis** - A rubric will be used to evaluate the theses for Research Methods and Analysis (Active)

**Criterion:** 80% of the theses will achieve or exceed the metric 4 (on a scale of 1-5 in rubric)

**Schedule:** Annually

**Master's Comprehensive Exam** - Master's Comprehensive Exam A rubric will be used to evaluate the master's comprehensive exams for Research Methods and Analysis (Active)

**Criterion:** 80% of the master's comprehensive exams will achieve or exceed the metric 4 (on a scale of 1-5 in rubric)

**Schedule:** Annually

**Student Projects** - Based on students who do research in the laboratory related to thesis options. (Active)

**Criterion:** 90% of the students doing research will have one of the following upon graduation: Peer reviewed publication, oral presentation at a national conference or a published conference proceeding.

**Schedule:** Upon graduation

## Student Learning Outcome: Scholarly Communication

Students will become better written and oral communicators as consistent with the focus of the program

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 06/15/2015

## Assessment Methods

**Thesis** - A rubric will be used to evaluate the theses for Scholarly Communication (Active)

**Criterion:** Students must defend their research project in both written and oral delivery with a passing grade

**Schedule:** Final year

**Master's Comprehensive Exam** - Master's Comprehensive Exam A rubric will be used to evaluate the master's comprehensive exams for Scholarly Communication (Active)

**Criterion:** 80% of the master's comprehensive exams will achieve or exceed the metric 4 (on a scale of 1-5 in rubric)

**Schedule:** Final year

## Student Learning Outcome: Professionalism

Students will know and participate in the intellectual and organizational aspects of the profession as applicable to the program

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**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 06/15/2015

## *Assessment Methods*

**Professional Development Activities** - Students are expected to attend seminars related to bioengineering in various departments.  
(Active)

**Criterion:** 100% of the students will attend seminars in interdisciplinary programs.

**Schedule:** Annually