

# University of Louisiana at Lafayette

## Detailed Assessment Report 2015-2016 Systems Technology MS

As of: 11/18/2016 11:33 AM CENTRAL

(Includes those Action Plans with Budget Amounts marked *One-Time, Recurring, No Request.*)

### Mission / Purpose

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The M.S. in Systems Technology degree program promotes excellence in graduate education, research, scholarly pursuits, and community service by imparting advanced knowledge of the discipline and related research skills. The theoretical knowledge and research skills obtained in this program prepare students for scholarly endeavors, which will develop knowledge within the discipline. The Systems Technology program is designed to equip students with the knowledge, skills, and cutting-edge tools to develop solutions to complex systems problems in a diversity of industries.

### Goals

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#### **G 1: Systems Technology**

### Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

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#### **SLO 1: General Knowledge of Systems Technology**

The student will understand the conceptual and theoretical frameworks of systems technology.

#### Related Measures

##### **M 1: Oral Defense**

Each student is required to either write a thesis or do a project. In either case, an oral defense is required. The committee asks probing questions in order to evaluate the student's breadth of knowledge, depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Presentation, either individual or group

##### **Target:**

The average score for all students will be 3.0 or higher.

##### **Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 4.25.

##### **Related Action Plans (by Established cycle, then alpha):**

##### **Measure of Graduates Scores in Oral Defense**

STEC is now in it's second semester with 15 students enrolled in the program. Reporting measurements for this objective are expected to be available at the end of the Fall semester of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in their oral defense.

**Established in Cycle:** 2014-2015

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Oral Defense | **Outcome/Objective:** General Knowledge of Systems Technology

**Projected Completion Date:** 06/2016

**Responsible Person/Group:** ITEC Graduate Committee

**SLO 2: Demonstration of Specialized Knowledge**

Student will identify current trends in the area of systems technology.

**Related Measures**

**M 1: Oral Defense**

Each student is required to either write a thesis or do a project. In either case, an oral defense is required. The committee asks probing questions in order to evaluate the student's breadth of knowledge, depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Presentation, either individual or group

**Target:**

The average score for all students will be 3.0 or higher.

**Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 4.25.

**Related Action Plans (by Established cycle, then alpha):**

**Measure of Graduates Scores in Specialized Knowledge**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 with specialized knowledge.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Oral Defense | **Outcome/Objective:** Demonstration of Specialized Knowledge

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in specialized knowledge and compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

**M 2: Evaluation of Thesis or Report Document**

The thesis or report document will be evaluated by the student's committee in the case of thesis option and by the major advisor in the case of project option using a rubric to determine the student's depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Senior thesis or culminating major project

**Target:**

The average score for all students will be 3.0 or higher.

**Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 4.

**Related Action Plans (by Established cycle, then alpha):**

**Measure of Graduates Scores in Depth of Knowledge from Thesis/Report**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in their depth of knowledge, ability to solve practical problems and ability to conduct rigorous research based on their Thesis or Final Project Report.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Evaluation of Thesis or Report Document |

**Outcome/Objective:** Demonstration of Specialized Knowledge

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in their depth of knowledge, ability to solve practical problems and ability to conduct rigorous research. These scores will be compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

### **SLO 3: Practical Problem Solving Skills**

An ability to demonstrate competence in solving practical problems in systems technology.

#### Related Measures

##### **M 1: Oral Defense**

Each student is required to either write a thesis or do a project. In either case, an oral defense is required. The committee asks probing questions in order to evaluate the student's breadth of knowledge, depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Presentation, either individual or group

##### **Target:**

The average score for all students will be 3.0 or higher.

##### Finding (2015-2016) - Target: Met

The average score for two students graduated in Spring 16 was 5.

#### Related Action Plans (by Established cycle, then alpha):

##### **Measure of Graduates Scores in Practical Problem Solving Skills**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in their practical problem solving skills.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Oral Defense | **Outcome/Objective:** Practical Problem Solving Skills

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in their practical problem solving skills and compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

## **M 2: Evaluation of Thesis or Report Document**

The thesis or report document will be evaluated by the student's committee in the case of thesis option and by the major advisor in the case of project option using a rubric to determine the student's depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Senior thesis or culminating major project

### **Target:**

The average score for all students will be 3.0 or higher.

### **Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 5.

### **Related Action Plans (by Established cycle, then alpha):**

#### **Measure of Graduates Scores in Problem Solving Skills from Thesis/Report**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in problem solving skills based on their thesis or final project report.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

#### **Relationships (Measure | Outcome/Objective):**

**Measure:** Evaluation of Thesis or Report Document |

**Outcome/Objective:** Practical Problem Solving Skills

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in their problem solving skills based on their thesis or final project report and compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

## **SLO 4: Research Skills**

Students will display advanced reading, research, oral and written communication skills through a rigorous research approach.

### **Related Measures**

#### **M 1: Oral Defense**

Each student is required to either write a thesis or do a project. In either case, an oral defense is required. The committee asks probing questions in order to evaluate the student's breadth of knowledge, depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Presentation, either individual or group

### **Target:**

The average score for all students will be 3.0 or higher.

### **Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 3.

### **Related Action Plans (by Established cycle, then alpha):**

#### **Measure of Graduates Scores in Research Skills**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in research skills.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Oral Defense | **Outcome/Objective:** Research Skills

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in research skills and compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

### **M 2: Evaluation of Thesis or Report Document**

The thesis or report document will be evaluated by the student's committee in the case of thesis option and by the major advisor in the case of project option using a rubric to determine the student's depth of knowledge, ability to solve practical problems, and ability to conduct rigorous research. The student's performance on each outcome is rated on a scale of 1 - 5, with 5 being the best score.

Source of Evidence: Senior thesis or culminating major project

#### **Target:**

The average score for all students will be 3.0 or higher.

#### **Finding (2015-2016) - Target: Met**

The average score for two students graduated in Spring 16 was 3.

#### **Related Action Plans (by Established cycle, then alpha):**

##### **Measure of Graduates Scores in Research Skills from Thesis/Report**

This is a new program and will not have reporting measurements until Fall of 2015. The action plan is to measure the number of graduates completing the Systems Technology program with a score of 3 out of 5 in their research skills based on their thesis or final project report.

**Established in Cycle:** 2013-2014

**Implementation Status:** Planned

**Priority:** High

**Relationships (Measure | Outcome/Objective):**

**Measure:** Evaluation of Thesis or Report Document |  
**Outcome/Objective:** Research Skills

**Implementation Description:** Data will be gathered on the number of graduates with a score of 3 or better in their research skills based on their thesis or final project report and compared to those with less than 3.

**Responsible Person/Group:** ITEC Graduate Committee

## **Analysis Questions and Analysis Answers**

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### **How were assessment results shared and evaluated within the unit?**

Annual report is shared with the graduate faculty.

**Identify which action plans [created in prior cycle(s)] were implemented in this current cycle. For each of these implemented plans, were there any measurable or perceivable**

**effects? How, if at all, did the findings appear to be affected by the implemented action plan?**

The program is only in its fifth semester. At this point, only two students graduated and all action plans are in place. the data will be evaluated for further changes for current action plans.

**What has the unit learned from the current assessment cycle? What is working well, and what is working less well in achieving desired outcomes?**

The program is only in its fifth semester. At this point, goals have been met.