University of Louisiana at Lafayette

Detailed Assessment Report 2015-2016 Computer Engineering MS

As of: 11/17/2016 10:25 AM CENTRAL

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

Mission / Purpose

The primary purpose of the MS program in computer engineering is to prepare students for positions in industry and to prepare them for doctoral programs in computer engineering.

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

SLO 1: Understand and use computer hardware design concepts

Understand and use computer hardware design concepts.

Related Measures

M 1: Understand and use computer hardware design concepts

Students should be able to learn and apply fundamental concepts of computer design or very large scale integration.

These concepts are taught in courses such as CSCE 581 and CSCE 585 / CSCE 586.

The percentage of students who achieve Developing or Developed state on the rubric will indicate the degree of success of this outcome.

Source of Evidence: Project, either individual or group

Target:

At least 70% of the students must achieve Developed or Exemplary state on the evaluation rubric.

Finding (2015-2016) - Target: Met

This outcome was measured on CSCE 585 and CSCE 586 in 2015-2016.

In CSCE 585 (Fall 2015), more than 85% students achieved Developing or Developed state on the evaluation rubric. The target is met.

In CSCE 586 (Spring 2016) more than 90% students achieved Developing or Developed state on the evaluation rubric. The target is met.

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

Continued implementation

Continue the best practices of pedagogy, assessment, and evaluation as all goals were met successfully.

Established in Cycle: 2014-2015 Implementation Status: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Understand and use computer hardware design concepts | **Outcome/Objective:** Understand and use

computer hardware design concepts

Continued Implementation of Assessment

Continued Implementation of Assessment

Established in Cycle: 2015-2016 Implementation Status: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills Measure: Understand and use computer hardware design concepts | Outcome/Objective: Understand and use

computer hardware design concepts

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

SLO 2: Understand and use core concepts of computer architecture

Understand and use core concepts of computer architecture

Related Measures

M 2: Understand and use core concepts of computer architecture

Concepts of computer architecture are taught in courses such as CMPS 430 and CSCE 530. This outcome will be

assesses on the data from one of these courses at a time.

At least 75% of the students must achieve Developed or Exemplary state on the rubric Source of Evidence: Project, either individual or group

Target:

At least 75% of the students must achieve Developed or Exemplary state on the rubric.

Finding (2015-2016) - Target: Met

This outcome was measured on CMPS 430 and CSCE 530 in 2015-2016.

In CMPS 430 (Fall 2015), more than 73% of the students achieved Developed or Exemplary state on the evaluation rubric. Target for this course is met.

In CSCE 530 (Spring 2016), more than 80% of the students achieved Developed or Exemplary state on the evaluation rubric. Target for this course is met.

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

Action Plan

Do a detailed review of goals as well as their assessment and evaluation strategy in Fall 2014.

Established in Cycle: 2013-2014 Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Continued implementation

Continue the best practices of pedagogy, assessment, and evaluation as all goals were met successfully.

Established in Cycle: 2014-2015 **Implementation Status:** In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Continued Implementation of Assessment

Continued Implementation of Assessment

Established in Cycle: 2015-2016 **Implementation Status:** In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills Measure: Understand and use computer hardware design concepts | Outcome/Objective: Understand and use

computer hardware design concepts

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

SLO 3: Understand and use core concepts of operating system

Understand and use core concepts of operating system

Related Measures

M 3: Understand and use core concepts of operating system

Operating system concepts are taught in CMPS 455 and CSCE 555. This outcome will be assessed on the data from one of these courses a time.

At least 75% of the students must achieve Developed or Exemplary state on the rubric.

Source of Evidence: Project, either individual or group

Target:

At least 70% of the students must achieve Developed or Exemplary state on the rubric.

Finding (2015-2016) - Target: Met

This outcome was measured on presentation of research report in CSCE 555 in 2015. In CSCE 555 (Fall 2015), 83% of the students achieved Developed or Exemplary state on the evaluation rubric. Target for this course is met.

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

Action Plan

Do a detailed review of goals as well as their assessment and evaluation strategy in Fall 2014.

Established in Cycle: 2013-2014 Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

Continued implementation

Continue the best practices of pedagogy, assessment, and evaluation as all goals were met successfully.

Established in Cycle: 2014-2015 Implementation Status: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

Continued Implementation of Assessment

Continued Implementation of Assessment

Established in Cycle: 2015-2016 **Implementation Status**: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills Measure: Understand and use computer hardware design concepts | Outcome/Objective: Understand and use

computer hardware design concepts

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

SLO 4: Demonstrate communication Skills

Demonstrate communication Skills

Related Measures

M 4: Demonstrate communication Skills

Communication skills will be measured by assessing students written reports and oral presentations made in a core subject such as CMPS 455 or CSCE 555.

At least 75% of the students must achieve Developed or Exemplary state on the rubric.

Source of Evidence: Project, either individual or group

Target:

At least 70% of the students must achieve Developed or Exemplary state on evaluation rubric.

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

This outcome was measured on presentation of research report in CSCE 555 in 2015. In CSCE 555 (Fall 2015), 83% of the students achieved Developed or Exemplary state on the evaluation rubric. Target for this course is met.

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

Action Plan

Do a detailed review of goals as well as their assessment and evaluation strategy in Fall 2014.

Established in Cycle: 2013-2014 Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills

Continued implementation

Continue the best practices of pedagogy, assessment, and evaluation as all goals were met successfully.

Established in Cycle: 2014-2015 **Implementation Status**: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills

Continued Implementation of Assessment

Continued Implementation of Assessment

Established in Cycle: 2015-2016 Implementation Status: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: Demonstrate communication Skills |

Outcome/Objective: Demonstrate communication Skills Measure: Understand and use computer hardware design concepts | Outcome/Objective: Understand and use

computer hardware design concepts

Measure: Understand and use core concepts of computer architecture | **Outcome/Objective:** Understand and use core

concepts of computer architecture

Measure: Understand and use core concepts of operating system | **Outcome/Objective:** Understand and use core

concepts of operating system

Analysis Questions and Analysis Answers

How were assessment results shared and evaluated within the unit?

All faculty and staffs in CACS were emailed a copy of the detailed assessment report.

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?

Since all the targets were met in the last assessment cycle, no new action plans were created. Nevertheless, we followed the best practices we established in earlier assessment cycles and again all targets are met in this cycle.

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 outcomes are mapped to the required courses that are offered reguarly, and the data collected is more robust.