

Course Student Learning Outcomes Assessment

CMPR 120 Introduction to Programming

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General Information (Course Student Learning Outcomes Assessment)

Standing Requirements

📖 Course Description

Introduction to programming concepts including data types mathematical operations elementary input/output and the basic control structures of sequence selection iteration and functions. Program design techniques utilizing structured and object-oriented methodologies will be emphasized.

📖 Course Student Learning Outcomes

CMPR 120 Introduction to Programming Outcome Set

Outcome	
Outcome	Mapping
Outcome 1 Students will develop the skills to create solutions (algorithms) to programming problems.	Institutional Student Learning Outcomes: Communicate 1, Learn 2, Learn 3, Think 1, Think 2
Outcome 2 Given multiple solutions (algorithms) to a programming problem, students will evaluate which solutions are most efficient.	Institutional Student Learning Outcomes: Communicate 1, Learn 1
Outcome 3 Students will demonstrate an awareness of the implications of software privacy and the ethics of generating their own solutions to programming projects.	Institutional Student Learning Outcomes: Communicate 1, Learn 3, Think 3

2014-2015 Assessment Cycle

Measurements

Outcomes and Measures

CMPR 120 Introduction to Programming Outcome Set

Outcome

Outcome 1

Students will develop the skills to create solutions (algorithms) to programming problems.

▼ **Measure: SLO #1**
Course level; Direct - Other

Description of Measurement Tool: Project #4;: E-commerce app

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70%.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Outcome 2

Given multiple solutions (algorithms) to a programming problem, students will evaluate which solutions are most efficient.

▼ **Measure: SLO #2**
Course level; Direct - Other

Description of Measurement Tool: Project #3: simple data entry for small businesses.

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70%.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Outcome 3

Students will demonstrate an awareness of the implications of software privacy and the ethics of generating their own solutions to programming projects.

▼ **Measure: SLO #3**
Course level; Direct - Exam

Description of Measurement Tool: 7 questions on the Final exam address this issue.

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70% on selected questions.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Findings

Finding per Measure

CMPR 120 Introduction to Programming Outcome Set

Outcome

Outcome 1

Students will develop the skills to create solutions (algorithms) to programming problems.

▼ **Measure: SLO #1**
Course level; Direct - Other

Description of Measurement Tool: Project #4;; E-commerce app

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70%.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Findings for SLO #1

Summary of Findings: Out of the 33 students who completed CS120 (40 started), 90% received full credit on this homework project.

Results: Criteria for Success Achievement Status: Met

Analysis of Findings: Since most students have never programmed before, this is exceptional.

Recommendations: This is about 7% higher than last year so I am pleased with this outcome.

Outcome 2

Given multiple solutions (algorithms) to a programming problem, students will evaluate which solutions are most efficient.

▼ **Measure: SLO #2**
Course level; Direct - Other

Description of Measurement Tool: Project #3: simple data entry for small businesses.

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70%.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Findings for SLO #2

Summary of Findings: Nearly 82% of the students showed very good analytical and critical analysis skills on this assignment given there are many solutions.

Results: Criteria for Success Achievement Status: Met

Analysis of Findings: This is about average for transfer students but is 6% lower than last year for some reason.

Recommendations: I will add another training video to my website on this lesson so students can listen to this challenge as many times as needed.

Outcome 3

Students will demonstrate an awareness of the implications of software privacy and the ethics of generating their own solutions to programming projects.

▼ **Measure: SLO #3**
Course level; Direct - Exam

Description of Measurement Tool: 7 questions on the Final exam address this issue.

Criteria for Success: Individual & Collective Student Criterion: 70% of students score at least 70% on selected questions.

Cycle of Assessment: Fall 2014

Who is Responsible for Assessment Activity?: Department Chair and Instructor

Findings for SLO #3

Summary of Findings: 66% of the students got all of these questions right. The range of scores was 50-78%.

Results: Criteria for Success Achievement Status: Met

Analysis of Findings: This is not good. Students need to understand the implications of copyright infringement.

Recommendations: Selected readings will be required next time and a quiz on this issue will be created to heightened their awareness of piracy and ethics in business.

Overall Recommendations

No text specified

 **Plans of Action**

 **Status Reports**

2013-2014 Assessment Cycle

 **Measurements**

 **Findings**

 **Plans of Action**

 **Status Reports**

2012-2013 Assessment Cycle

 **Measurements**

 **Findings**

 **Plans of Action**

 **Status Reports**