Mission / Purpose

The mission of the department is to provide a broad-based, high-quality education in computer science.

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

SLO 4: ABET SO a - apply knowledge of computing
An ability to apply knowledge of computing and mathematics appropriate to the discipline.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 403 Student Outcomes
CS 403 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 403 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 426 Student Outcomes
CS 426 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 426 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 457 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome a - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

**M 4:** **Metrics from CS 475**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 475 Student Outcomes
- CS 475 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
- 2012-2013 CS 475 Student Outcomes

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome b - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

**SLO 5:** **ABET SO b - ability to analyze a problem**
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

**Connected Document**
- BSCS Computer Science Curriculum Map

**Related Measures**

**M 1:** **Metrics from CS 403**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 403 Student Outcomes
- CS 403 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
- 2012-2013 CS 403 Student Outcomes

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome b - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

**M 2:** **Metrics from CS 426**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 426 Student Outcomes
- CS 426 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
- 2012-2013 CS 426 Student Outcomes

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome b - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

**M 3:** **Metrics from CS 457**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other
ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other

SLO 6: ABET SO c - ability to design and implement
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome c - Assessment Results**

*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It wa...

**M 3: Metrics from CS 457**

Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457

Source of Evidence: Academic direct measure of learning - other

**Connected Documents**

- 2012-2013 CS 457 Student Outcomes
- CS 457 Student Outcomes Data

**Target:**

Per UA policy, there is no predefined target for this measure

**Connected Document**

- 2012-2013 CS 457 Student Outcomes

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

For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome c - Assessment Results**

*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It wa...

**M 4: Metrics from CS 475**

Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475

Source of Evidence: Academic direct measure of learning - other

**Connected Documents**

- 2012-2013 CS 475 Student Outcomes
- CS 475 Student Outcomes Data

**Target:**

Per UA policy, there is no predefined target for this measure

**Connected Document**

- 2012-2013 CS 475 Student Outcomes

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

For full information, see the Details of Action Plans section of this report.

**SLO 7: ABET SO d - ability to function in teams**

An ability to function effectively on teams to accomplish a common goal.

**Connected Document**

- BSCS Computer Science Curriculum Map

**Related Measures**

**M 5: Metrics from CS 495**

Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495

Source of Evidence: Project, either individual or group

**Connected Documents**

- 2012-2013 CS 495 Student Outcomes
- CS 495 Student Outcomes Data

**Target:**

Per UA policy, there is no predefined target for this measure

**Connected Document**

- 2012-2013 CS 495 Student Outcomes

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

For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome d - Assessment Results**

*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d. At th...

**SLO 8: ABET SO e - understand ethical/legal/social issues**

An understanding of professional, ethical, legal, security and social issues and responsibilities.

**Connected Document**
SLO 9: ABET SO e - ability to communicate
An ability to communicate effectively with a range of audiences.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures
M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 495 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome e - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e. At th...

SLO 10: ABET SO g - analyze local/global impacts
An ability to analyze the local and global impact of computing on individuals, organizations, and society.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures
M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 495 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome f - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 457 Student Outcomes

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome f - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At th...
M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome g - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At th...

SLO 11: ABET SO h - recognize need for lifelong learning
Recognition of the need for and an ability to engage in continuing professional development.

Connected Document
BSCS Computer Science Curriculum Map

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome h - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At th...

SLO 12: ABET SO i - ability to use current techniques
An ability to use current techniques, skills, and tools necessary for computing practice.

Connected Document
BSCS Computer Science Curriculum Map

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome i - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At th...

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Target:
Per UA policy, there is no predefined target for this measure

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

**SLO 13: ABET SO j - ability to apply foundational principles**
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

Source of Evidence: Academic direct measure of learning - other

**M 1: Metrics from CS 403**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403

Source of Evidence: Academic direct measure of learning - other

**M 2: Metrics from CS 426**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426

Source of Evidence: Academic direct measure of learning - other

**M 4: Metrics from CS 475**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475

Source of Evidence: Academic direct measure of learning - other
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome j - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

**SLO 14: ABET SO k - ability to construct software systems**
An ability to apply design and development principles in the construction of software systems of varying complexity

**Related Measures**

**M 5: Metrics from CS 495**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

**Connected Documents**
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Other Outcomes, with Any Associations and Related Measures, Targets, Findings, and Action Plans**

**OthOtcm 1: Program Quality**
The program will improve and sustain a high level of recognized quality

**OthOtcm 2: Program Optimum Enrollment**
The program will build and sustain an optimal level of annual program enrollments and degree completions

**OthOtcm 3: Program Highly Valued**
The program will be highly valued by its program graduates and other key constituencies it serves

**Details of Action Plans for This Cycle (by Established cycle, then alpha)**

**ABET CAC Student Outcome a - Assessment Results**
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

*Established in Cycle: 2011-2012*
*Implementation Status: Planned*
*Priority: High*

**Relationships (Measure | Outcome/Objective):**
- **Measure:** Metrics from CS 403 | **Outcome/Objective:** ABET SO a - apply knowledge of computing
- **Measure:** Metrics from CS 426 | **Outcome/Objective:** ABET SO a - apply knowledge of computing
- **Measure:** Metrics from CS 457 | **Outcome/Objective:** ABET SO a - apply knowledge of computing
- **Measure:** Metrics from CS 475 | **Outcome/Objective:** ABET SO a - apply knowledge of computing

**Connected Documents**
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

**ABET CAC Student Outcome b - Assessment Results**
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

*Established in Cycle: 2011-2012*
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 403 | Outcome/Objective: ABET SO b - ability to analyze a problem
Measure: Metrics from CS 426 | Outcome/Objective: ABET SO b - ability to analyze a problem
Measure: Metrics from CS 457 | Outcome/Objective: ABET SO b - ability to analyze a problem
Measure: Metrics from CS 475 | Outcome/Objective: ABET SO b - ability to analyze a problem

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

ABET CAC Student Outcome c - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It was felt that student performance in this area, "an ability to design, implement, and evaluate a computer-based system, process, component or program to meet desired needs," was weak. The faculty were presented with this information at the May 2012 faculty meeting. The Fall retreat (August 2012) will focus on ways to improvement student performance in this area.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 403 | Outcome/Objective: ABET SO c - ability to design and implement
Measure: Metrics from CS 426 | Outcome/Objective: ABET SO c - ability to design and implement
Measure: Metrics from CS 457 | Outcome/Objective: ABET SO c - ability to design and implement
Measure: Metrics from CS 475 | Outcome/Objective: ABET SO c - ability to design and implement

Implementation Description: Fall Faculty Retreat will identify ideas for implementation, and adopt these ideas as appropriate.

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

ABET CAC Student Outcome d - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET SO d - ability to function in teams

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

ABET CAC Student Outcome e - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET SO e - understand ethical/legal/social issues

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

ABET CAC Student Outcome f - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.
Measure: Metrics from CS 426 | Outcome/Objective: ABET SO j - ability to apply foundational principles
Measure: Metrics from CS 475 | Outcome/Objective: ABET SO j - ability to apply foundational principles

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

ABET CAC Student Outcome k - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High
Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET SO k - ability to construct software systems

Connected Documents
2011-2012 Assessment Committee Report
2012-2013 Assessment Committee Report

Improve analysis skills
The theoretical courses (CS 360, 403, 470/475) in the curriculum indicate that students do not necessarily have a solid grasp of the theoretical foundations of the discipline. In the upcoming year (2013-2014 AY), emphasis will be placed on ensuring these concepts are not only delivered in 360/403/470/475 but also emphasized in other computing courses.

Established in Cycle: 2012-2013
Implementation Status: Planned
Priority: High
Implementation Description: Re-examination of emphasis areas within existing courses in the curriculum.
Responsible Person/Group: All CS faculty teaching in the undergraduate program
Additional Resources: None
Mission / Purpose

The mission of the department is to provide a broad-based, high-quality education in computer science.

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

SLO 4: ABET SO a - apply knowledge of computing
An ability to apply knowledge of computing and mathematics appropriate to the discipline.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 403 Student Outcomes
CS 403 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 403 Student Outcomes

Finding (2012-2013) - Target: Met
Performance on this measure in Fall 2012 was 51%. This was the lowest of all four courses measuring this outcome (average was 68.2%). This is also lower than what was seen last year in CS 403.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 426 Student Outcomes
CS 426 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 426 Student Outcomes

Finding (2012-2013) - Target: Met
Performance on this measure was 76% in Spring 2012, compared with 84% in 2011. Both of these numbers are above the average for all four courses of 68%.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data
Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 457 Student Outcomes

Finding (2012-2013) - Target: Met
Performance in Spring 2013 was at 69%, right at the average across all four courses measuring this outcome. It is slightly lower than what was observed last year.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 475 Student Outcomes
CS 475 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 475 Student Outcomes

Finding (2012-2013) - Target: Met
Performance this past year was at 72%, roughly unchanged from the previous year.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

SLO 5: ABET SO b - ability to analyze a problem
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 403 Student Outcomes
CS 403 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 403 Student Outcomes

Finding (2012-2013) - Target: Met
Performance on this measure was basically unchanged from last year. It was 63% this year and 66% last year. Lower performance was seen in CS 475, and the average performance for this measure was 60.2% across all courses.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

Improve analysis skills
Established in Cycle: 2012-2013
The theoretical courses (CS 360, 403, 470/475) in the curriculum indicate that students do not necessarily have a solid grasp of...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other
Target:
Per UA policy, there is no predefined target for this measure

Finding (2012-2013) - Target: Met
Performance on this outcome in Spring 2013 was 75%. This number was significantly higher than the average across all four courses where this was measured.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Target:
Per UA policy, there is no predefined target for this measure

Finding (2012-2013) - Target: Met
Performance in Spring 2013 was at 75%, slightly below last year’s observations but considerably higher than the average for this measure across all four courses.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other

Target:
Per UA policy, there is no predefined target for this measure

Finding (2012-2013) - Target: Met
Performance this past year was 47% and 41%, significantly lower than the 65% reported last year. This was discussed in detail by both the assessment committee and the faculty.

Finding (2012-2013) - Target: Met
Performance this past year was 47% and 41%, significantly lower than the 65% reported last year. This was discussed in detail by both the assessment committee and the faculty.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

Improve analysis skills
Established in Cycle: 2012-2013
The theoretical courses (CS 360, 403, 470/475) in the curriculum indicate that students do not necessarily have a solid grasp of...

SLO 6: ABET SO c - ability to design and implement
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
Related Measures

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 403 Student Outcomes
CS 403 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 403 Student Outcomes

Finding (2012-2013) - Target: Met
Performance on this measure in Fall 2012 was 70%, compared to 63% in Fall 2011. The average performance for this measure across all courses was 79.4%.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome c - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It was...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 426 Student Outcomes
CS 426 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 426 Student Outcomes

Finding (2012-2013) - Target: Met
Performance in Spring 2013 was at the 75% level, slightly above the overall average of 70% across all four courses.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome c - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It was...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 457 Student Outcomes

Finding (2012-2013) - Target: Met
Performance was 76% in Spring 2013, basically unchanged from the previous year. It is slightly above the average for all courses measuring this outcome.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome c - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It was...

M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other
Target:
Per UA policy, there is no predefined target for this measure

Finding (2012-2013) - Target: Met
Performance this past year was 71% and 60%. This was not that different from last year's value of 70%.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome c - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c.

SLO 7: ABET SO d - ability to function in teams
An ability to function effectively on teams to accomplish a common goal.

Related Measures
M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Finding (2012-2013) - Target: Met
Performance this past year was 98% and 92%, not that different from what was seen the past year (94% and 95%).

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome d - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d.

SLO 8: ABET SO e - understand ethical/legal/social issues
An understanding of professional, ethical, legal, security and social issues and responsibilities.

Related Measures
M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Finding (2012-2013) - Target: Met
Performance this past year was 87% and 88%, almost identical to last year and well above thresholds.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome e - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e.
SLO 9: ABET SO f - ability to communicate
An ability to communicate effectively with a range of audiences.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Documents
2012-2013 CS 457 Student Outcomes
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 457 Student Outcomes

Finding (2012-2013) - Target: Met
Performance this year was evaluated as a "Pass" (unique situations arose during the semester). It will return to a regular (numeric) score in future years.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 495 Student Outcomes

Finding (2012-2013) - Target: Met
Performance this past year was 91%, well above thresholds.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

SLO 10: ABET SO g - analyze local/global impacts
An ability to analyze the local and global impact of computing on individuals, organizations, and society.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Documents
2012-2013 CS 495 Student Outcomes
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Connected Document
2012-2013 CS 495 Student Outcomes

Finding (2012-2013) - Target: Met
Performance was 87% and 91%. Again, very similar to last year and well above expectations.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.
**ABET CAC Student Outcome g - Assessment Results**  
*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At th...

**SLO 11:** ABET SO h - recognize need for lifelong learning
- Recognition of the need for and an ability to engage in continuing professional development.

**Connected Document**  
[BSCS Computer Science Curriculum Map](#)

**Related Measures**

**M 5: Metrics from CS 495**
- Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
- Source of Evidence: Project, either individual or group

**Connected Documents**
- [2012-2013 CS 495 Student Outcomes](#)
- [CS 495 Student Outcomes Data](#)

**Target:**  
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**
- Performance was reported at 100%. It was not measured in the previous year.

**Related Action Plans (by Established cycle, then alpha):**  
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome h - Assessment Results**  
*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At th...

**SLO 12:** ABET SO i - ability to use current techniques
- An ability to use current techniques, skills, and tools necessary for computing practice.

**Connected Document**  
[BSCS Computer Science Curriculum Map](#)

**Related Measures**

**M 3: Metrics from CS 457**
- Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
- Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- [2012-2013 CS 457 Student Outcomes](#)
- [CS 457 Student Outcomes Data](#)

**Target:**  
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**
- Performance was 80% in Spring 2013, compared to 90% the previous year. These numbers are still well above the threshold for acceptability.

**Related Action Plans (by Established cycle, then alpha):**  
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome i - Assessment Results**  
*Established in Cycle: 2011-2012*

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At th...

**M 5: Metrics from CS 495**
- Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
- Source of Evidence: Project, either individual or group

**Connected Documents**
- [2012-2013 CS 495 Student Outcomes](#)
- [CS 495 Student Outcomes Data](#)

**Target:**  
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**
Performance was reported at 71% and 65% this past year. It was not measured in previous years.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome i - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At th...

**SLO 13: ABET SO j - ability to apply foundational principles**
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

[CS]

**Connected Document**
BSCS Computer Science Curriculum Map

**Related Measures**

**M 1: Metrics from CS 403**
Exams, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 403 Student Outcomes
- CS 403 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
2012-2013 CS 403 Student Outcomes

**Finding (2012-2013) - Target: Met**
Performance on this measure in Fall 2012 was 80%, compared with 85% in Fall 2011. This is significantly higher than the three-course average of 68% for this measure.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome j - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

**M 2: Metrics from CS 426**
Exams, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 426 Student Outcomes
- CS 426 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
2012-2013 CS 426 Student Outcomes

**Finding (2012-2013) - Target: Met**
Performance in Spring 2013 was at the 63% level, slightly below the average for this measure across all three courses.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**M 4: Metrics from CS 475**
Exams, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other

**Connected Documents**
- 2012-2013 CS 475 Student Outcomes
- CS 475 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
2012-2013 CS 475 Student Outcomes

**Finding (2012-2013) - Target: Met**
Performance this past year was 71% and 60%, compared to 68% last year. No significant differences were noted.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome j - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

**SLO 14: ABET SO k - ability to construct software systems**
An ability to apply design and development principles in the construction of software systems of varying complexity

**Connected Document**
[BSCS Computer Science Curriculum Map](#)

**Related Measures**

**M 5: Metrics from CS 495**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

**Related Documents**
[2012-2013 CS 495 Student Outcomes](#)
[CS 495 Student Outcomes Data](#)

**Target:**
Per UA policy, there is no predefined target for this measure

**Connected Document**
[2012-2013 CS 495 Student Outcomes](#)

**Finding (2012-2013) - Target: Met**
Performance was reported at 88% and 81% this past year, roughly equivalent to the numbers seen in the previous year.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome k - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At th...

**Other Outcomes, with Any Associations and Related Measures, Targets, Findings, and Action Plans**

**OthOtcm 1: Program Quality**
The program will improve and sustain a high level of recognized quality

**Related Measures**

**M 6: Program Quality - Average ACT**
Program Quality Measure - Tracks the average ACT score (composite) for students pursuing a B.S. in Computer Science
Source of Evidence: Standardized test of subject matter knowledge

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**
Average ACT scores for the program continue to increase. The five-year numbers (2009 to 2013) are currently 25.78, 25.87, 26.65, 27.00 and 27.06. An increase in quality from 25.78 to 27.06 (over a full point on the ACT)

**M 7: Program Quality - Career Center**
Program Quality - tracks the placement of our B.S. in computer science graduates via information from the Career Center
Source of Evidence: Academic direct measure of learning - other

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**
Career Center numbers for students graduating with a B.S. degree in Computer Science for 2012 indicate an average starting salary of $63,000.

**OthOtcm 2: Program Optimum Enrollment**
The program will build and sustain an optimal level of annual program enrollments and degree completions

**Related Measures**

**M 8: Program Optimum Enrollment - enrollment**
Program Optimum Enrollment - count of the undergraduate majors enrolled in the B.S. program in Computer Science
Source of Evidence: Academic direct measure of learning - other

**Target:**
Per UA policy, there is no predefined target for this measure
**Finding (2012-2013) - Target: Met**

Enrollment numbers for the B.S. program in computer science over the last five years (Fall 2009 to Fall 2013) show numbers of 209, 237, 292, 404 and 469. This represents more than a doubling in enrollment over the last five years.

**M 9: Program Optimum Enrollment - graduation**

Program Optimum Enrollment - tracks the number of graduates from the B.S. program in Computer Science

Source of Evidence: Academic direct measure of learning - other

Target:
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**

Graduation numbers for the B.S. program in computer science over the last four years (2010 to 2013) show 25, 19, 25 and 32 students graduating from the program.

**OthOtcm 3: Program Highly Valued**

The program will be highly valued by its program graduates and other key constituencies it serves

Related Measures

**M 10: Program Highly Valued - Senior Exit Interviews**

Program Highly Valued - information received from senior exit interviews

Source of Evidence: Exit interviews with grads/program completers

Target:
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**

Senior exit interviews for students completing the B.S. degree in computer science are performed every semester. This past year, students especially noted the improvement in the quality and activity of the department's student organization (ACM - Association for Computing Machinery) and the upgrades made to the undergraduate laboratory/lounge.

**M 11: Program Highly Valued - Coop reviews**

Program Highly Valued - assessment of the reports submitted by students and employers associated with their cooperative educational experiences

Source of Evidence: Employer survey, incl. perceptions of the program

Target:
Per UA policy, there is no predefined target for this measure

**Finding (2012-2013) - Target: Met**

The department regularly has a half-dozen to dozen students participating in cooperative education in any given semester. Work reports are submitted by the students and employers, and reviewed by both the Cooperative Education Office at UA and the department. Reports submitted to the department indicate that the program is highly valued by the students. They perceive it as an excellent opportunity to further their education.

**Details of Action Plans for This Cycle (by Established cycle, then alpha)**

**ABET CAC Student Outcome a - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012

Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):

- Measure: Metrics from CS 403 | Outcome/Objective: ABET SO a - apply knowledge of computing
- Measure: Metrics from CS 426 | Outcome/Objective: ABET SO a - apply knowledge of computing
- Measure: Metrics from CS 457 | Outcome/Objective: ABET SO a - apply knowledge of computing
- Measure: Metrics from CS 475 | Outcome/Objective: ABET SO a - apply knowledge of computing

Connected Documents

- 2011-2012 Assessment Committee Report
- 2012-2013 Assessment Committee Report

**ABET CAC Student Outcome b - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012

Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):
ABET CAC Student Outcome c - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
- Measure: Metrics from CS 403 | Outcome/Objective: ABET SO c - ability to design and implement
- Measure: Metrics from CS 426 | Outcome/Objective: ABET SO c - ability to design and implement
- Measure: Metrics from CS 457 | Outcome/Objective: ABET SO c - ability to design and implement
- Measure: Metrics from CS 475 | Outcome/Objective: ABET SO c - ability to design and implement

Implementation Description: Fall Faculty Retreat will identify ideas for implementation, and adopt these ideas as appropriate.

Connected Documents
- 2011-2012 Assessment Committee Report
- 2012-2013 Assessment Committee Report

ABET CAC Student Outcome d - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
- Measure: Metrics from CS 495 | Outcome/Objective: ABET SO d - ability to function in teams

Connected Documents
- 2011-2012 Assessment Committee Report
- 2012-2013 Assessment Committee Report

ABET CAC Student Outcome e - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
- Measure: Metrics from CS 495 | Outcome/Objective: ABET SO e - understand ethical/lastal/social issues

Connected Documents
- 2011-2012 Assessment Committee Report
- 2012-2013 Assessment Committee Report

ABET CAC Student Outcome f - Assessment Results
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

The Departmental Assessment Committee met in Spring 2013 to review the last set of assessment data. Recommendations were made to the faculty at the end-of-the-semester faculty meeting in early May 2013. Specific details regarding these recommendations can be found in the 2012-2013 assessment committee report.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High
Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET SO k - ability to construct software systems

Improve analysis skills
The theoretical courses (CS 360, 403, 470/475) in the curriculum indicate that students do not necessarily have a solid grasp of the theoretical foundations of the discipline. In the upcoming year (2013-2014 AY), emphasis will be placed on ensuring these concepts are not only delivered in 360/403/470/475 but also emphasized in other computing courses.

Established in Cycle: 2012-2013
Implementation Status: Planned
Priority: High
Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 403 | Outcome/Objective: ABET SO b - ability to analyze a problem
Measure: Metrics from CS 475 | Outcome/Objective: ABET SO b - ability to analyze a problem

Implementation Description: Re-examination of emphasis areas within existing courses in the curriculum.
Responsible Person/Group: All CS faculty teaching in the undergraduate program
Additional Resources: None
Mission / Purpose
The mission of the department is to provide a broad-based, high-quality education in computer science.

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

SLO 1: ABET CAC Student Outcome a
An ability to apply knowledge of computing and mathematics appropriate to the discipline.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other

Connected Document
CS 403 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance on this measure in Fall 2011 was scored at 59%

Of all the metrics gathered from CS 403, this was the lowest-scoring metric. The average across all courses for this student outcome was 74%. Metrics from the other courses indicated significantly better performance with respect to this student outcome.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other

Connected Document
CS 426 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 84% in Spring 2011 and 80% in Fall 2011

Performance is higher than the average performance for this outcome across all four courses (403, 426, 457 and 475).

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Document
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 78% in Spring 2011.

Performance is higher than the average performance for this outcome across all four courses (403, 426, 457 and 475).

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475.
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 475 Student Outcomes Data
Target:
Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 70%.
This score was slightly lower than the average, and correlated with a low score from our other theory course (403).
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome a - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At th...

SLO 2: ABET CAC Student Outcome b
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
Connected Document
BSCS Computer Science Curriculum Map
Related Measures
M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403.
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 403 Student Outcomes Data
Target:
Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance on this measure in Fall 2011 was score at 65%.
The average across all courses for this student outcome was 73%. Student performance regarding this outcome was weakest in the two theory courses (403 and 475).
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At th...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426.
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 426 Student Outcomes Data
Target:
Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 82% in Spring 2011 and 70% in Fall 2011.
Performance in this course was similar to the average seen across all courses (73%)
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.
ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At the... M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 457 Student Outcomes Data
Target: Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 83% in Spring 2011
Student performance seems solid in CS 457 with respect to the measurement of all applicable outcomes
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome b - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At the... M 4: Metrics from CS 475
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 475 Student Outcomes Data
Target: Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 65%
Again, this score was slightly lower than the average seen across all courses. It, along with our other theory course, had the same basic student performance.
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome c - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. At the... SLO 3: ABET CAC Student Outcome c
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
Connected Document
BSCS Computer Science Curriculum Map
Related Measures
M 1: Metrics from CS 403
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 403
Source of Evidence: Academic direct measure of learning - other
Connected Document
CS 403 Student Outcomes Data
Target: Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Performance on this measure in Fall 2011 was score at 63%
The average across all courses for this student outcome was 71%. Performance regarding this student outcome seemed consistent across all courses.
Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426

Source of Evidence: Academic direct measure of learning - other

**Connected Document**
CS 426 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
Performance regarding this outcome was listed as 67% in Spring 2011 and 76% in Fall 2011

Performance with respect to this student outcome was the lowest of any of the outcomes for CS 426. However, it was still approximately equal to the average score over all courses measuring this outcome.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome c - Assessment Results**
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It wa...

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**M 3: Metrics from CS 457**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457

Source of Evidence: Academic direct measure of learning - other

**Connected Document**
CS 457 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
Performance regarding this outcome was listed as 78% in Spring 2011

While not as strong an indicator of solid performance, compared to student outcomes (a) and (b), performance is still solid regarding achievement of this outcome.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome c - Assessment Results**
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It wa...

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**M 4: Metrics from CS 475**
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 475

Source of Evidence: Academic direct measure of learning - other

**Connected Document**
CS 475 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
Performance regarding this outcome was listed as 70%

Performance regarding this student outcome was right at the average across all courses.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the Details of Action Plans section of this report.

**ABET CAC Student Outcome c - Assessment Results**
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It wa...

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**SLO 4: ABET CAC Student Outcome d**
An ability to function effectively on teams to accomplish a common goal.

**Connected Document**
BSCS Computer Science Curriculum Map

**Related Measures**

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**M 5: Metrics from CS 495**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495

Source of Evidence: Project, either individual or group

**Connected Document**
CS 495 Student Outcomes Data

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
This was measured in both Spring and Fall, with scores of 94% and 95% for the two semesters.

There is no evidence that students in our program are not enabled to attain this outcome.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome d - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d. At th...

**SLO 5: ABET CAC Student Outcome e**
An understanding of professional, ethical, legal, security and social issues and responsibilities.

**Connected Document**
[BSCS Computer Science Curriculum Map](#)

**Related Measures**

**M 5: Metrics from CS 495**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495

**Source of Evidence:** Project, either individual or group

**Connected Document**
[CS 495 Student Outcomes Data](#)

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
Analysis in CS 495 showed 87% and 88% of students achieved this outcome. There is not a concern regarding our program enabling this outcome.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome e - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e. At th...

**SLO 6: ABET CAC Student Outcome f**
An ability to communicate effectively with a range of audiences.

**Connected Document**
[BSCS Computer Science Curriculum Map](#)

**Related Measures**

**M 3: Metrics from CS 457**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457

**Source of Evidence:** Academic direct measure of learning - other

**Connected Document**
[CS 457 Student Outcomes Data](#)

**Target:**
Per UA policy, there is no predefined target for this measure

**Finding (2011-2012) - Target: Met**
Performance regarding this outcome was listed as 90% in Spring 2011

CS 457 is one of two "W" courses in the curriculum, and writing is emphasized throughout the course. Based on the data gathered, it appears that students in this class are demonstrating appropriate behavior with regard to communication abilities.

**Related Action Plans (by Established cycle, then alpha):**
For full information, see the *Details of Action Plans* section of this report.

**ABET CAC Student Outcome f - Assessment Results**
*Established in Cycle: 2011-2012*
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At th...

**M 5: Metrics from CS 495**
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495

**Source of Evidence:** Project, either individual or group

**Connected Document**
[CS 495 Student Outcomes Data](#)

**Target:**
Per UA policy, there is no predefined target for this measure
Finding (2011-2012) - Target: Met
Student performance regarding this outcome was at 93% (both semesters) for CS 495. It should be noted that CS 495 is one of our two designed "W-courses".

Given the performance in this course as well as CS 457 (our other W-course), it appears that we are enabling this outcome for our students.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome f - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At th...

SLO 7: ABET CAC Student Outcome g
An ability to analyze the local and global impact of computing on individuals, organizations, and society.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Document
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Evaluation of this outcome in CS 495 yielded scores of 87% and 89%.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome g - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At th...

SLO 8: ABET CAC Student Outcome h
Recognition of the need for and an ability to engage in continuing professional development.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Document
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
This outcome was not measured during the Spring 2011 semester. It was captured in the Fall 2011 offering. Evidence shows that 100% of our students recognized the need to engage in continuing professional development, and demonstrated this through their actions with the capstone course.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome h - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At th...

SLO 9: ABET CAC Student Outcome i
An ability to use current techniques, skills, and tools necessary for computing practice.

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other
Target: Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 90% in Spring 2011

Students scored highly regarding their use of current database tools and techniques, thus providing support to the achievement of student outcome (i)

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome i - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At th...

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Target: Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Evidence was not captured during the Spring offering. The Fall offering resulted in a score of 83% for this outcome. This measure was slightly lower than that seen in CS 457 (the other course measuring the outcome), but still acceptable.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome i - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At th...

SLO 10: ABET CAC Student Outcome j
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. [CS]

Target: Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance on this measure in Fall 2011 was score at 86%. This was the area that CS 403 students did the best (with respect to the four student outcomes that were measured). Scores in this course were significantly higher than scores in the other theory course (475), yet this outcome was probably the one that focused most on the theoretical aspects of computing.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome j - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

M 2: Metrics from CS 426
Exam questions, homework questions, project evaluations, student interviews, and/or individual presentations from CS 426
Source of Evidence: Academic direct measure of learning - other
Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 80% in Spring 2011 and 76% in Fall 2011

Performance regarding this outcome was equivalent to what was seen in other courses and the average across all courses measuring this outcome.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome j - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

M 3: Metrics from CS 457
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 457
Source of Evidence: Academic direct measure of learning - other

Connected Document
CS 457 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Performance regarding this outcome was listed as 68%

Performance in this class was the lowest seen for this student outcome. It is interesting to note that this outcome focuses on the theoretical foundations, and this course is a pure theory course. However, the other theoretical course that measures this outcome had significantly higher scores.

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome j - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At th...

SLO 11: ABET CAC Student Outcome k
An ability to apply design and development principles in the construction of software systems of varying complexity

Connected Document
BSCS Computer Science Curriculum Map

Related Measures

M 5: Metrics from CS 495
Exam questions, homework questions, project evaluations, student interviews, W-assignment assessments and/or individual presentations from CS 495
Source of Evidence: Project, either individual or group

Connected Document
CS 495 Student Outcomes Data

Target:
Per UA policy, there is no predefined target for this measure

Finding (2011-2012) - Target: Met
Scores were captured of 88% and 84% for the two semesters. It is apparent that student are able to successfully apply design and development principles to the construction of software systems (as measured by our capstone course).

Related Action Plans (by Established cycle, then alpha):
For full information, see the Details of Action Plans section of this report.

ABET CAC Student Outcome k - Assessment Results
Established in Cycle: 2011-2012
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At th...
The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome a. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

**ABET CAC Student Outcome b - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome b. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

**ABET CAC Student Outcome c - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome c. It was felt that student performance in this area, "an ability to design, implement, and evaluate a computer-based system, process, component or program to meet desired needs," was weak. The faculty were presented with this information at the May 2012 faculty meeting. The Fall retreat (August 2012) will focus on ways to improve student performance in this area.

**ABET CAC Student Outcome d - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome d. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

**ABET CAC Student Outcome e - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome e. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

**ABET CAC Student Outcome f - Assessment Results**

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome f. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.
ABET CAC Student Outcome g - Assessment Results

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome g. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 457 | Outcome/Objective: ABET CAC Student Outcome f
Measure: Metrics from CS 495 | Outcome/Objective: ABET CAC Student Outcome f

Connected Document
2011-2012 Assessment Committee Report

ABET CAC Student Outcome h - Assessment Results

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome h. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET CAC Student Outcome g

Connected Document
2011-2012 Assessment Committee Report

ABET CAC Student Outcome i - Assessment Results

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome i. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 457 | Outcome/Objective: ABET CAC Student Outcome i
Measure: Metrics from CS 495 | Outcome/Objective: ABET CAC Student Outcome i

Connected Document
2011-2012 Assessment Committee Report

ABET CAC Student Outcome j - Assessment Results

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome j. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 403 | Outcome/Objective: ABET CAC Student Outcome j
Measure: Metrics from CS 426 | Outcome/Objective: ABET CAC Student Outcome j
Measure: Metrics from CS 475 | Outcome/Objective: ABET CAC Student Outcome j

Connected Document
2011-2012 Assessment Committee Report

ABET CAC Student Outcome k - Assessment Results

The Departmental Assessment Committee met in April, 2012 and reviewed the materials regarding ABET CAC Student Outcome k. At this time, they had no recommendations for improvement regarding this outcome. Specific target levels of achievement for this outcome will be identified at the Fall 2012 Faculty Retreat.

Established in Cycle: 2011-2012
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
Measure: Metrics from CS 495 | Outcome/Objective: ABET CAC Student Outcome k

Connected Document
2011-2012 Assessment Committee Report