

Assessment Plan

Student Learning Outcomes

Applied Computer Science and Information Systems (BS)

Mission: The Applied Computer Science and Information Systems program provides affordable undergraduate education that successfully prepares students for a global and technically advanced society. Through scholarship, creative expression and service, we further contribute to the intellectual, economic, and cultural fabric of society.

Outcome: Concepts

Articulate basic concepts in programming, database, networking, and computational theory

Outcome Status: Active

Outcome Type: Academic Program Learning

Start Date: 05/10/2011

Specific Assessments

Comprehensive Exam - COMP 475 Comprehensive Exam assessing concepts in programming, database, networking, and computation theory. (Active)

Criterion: At least 75% of students will score at least 70% in at least 3 of the 4 content areas listed.

Schedule: At least every other year, beginning Spring 2012

Related Documents:

[Syllabus COMP475 Senior Capstone](#)

Course Exam - COMP230- Discrete & Formal Lang: Final Exam Embedded questions (document attached) will be used to assess computational theory. The following areas of computational theory will be assessed:

A: Solve for the result of a given recursive algorithm

B: Apply basic traversal algorithms to specific trees.

C: Accurately translate among logic networks and Boolean expressions

D: Solve whether a given string will be accepted by a finite state machine

E: Solve for the result of a given Turing machine.

F: Create a Turing machine to compute a function.

Students are deemed competent if they score 75% or higher on subsets of questions devoted to the above areas. (Active)

Criterion: At least 75% of majors will be competent in each area.

Schedule: At least every other year.

Related Documents:

[Assessment_Guide_259_Final_Sp11.doc](#)

[Syllabus - COMP230 Discrete Structures and Formal Languages](#)

[Syllabus -Addendum COMP 230](#)

Course Exam - COMP 119: We develop competence in logic and flowcharting to support the course outcome of "Utilize flowcharting symbols and pseudo code to solve computing problems."

This is assessed with embedded questions in the final exam.

This course outcome primarily supports the programming component of the Concepts program outcome.

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In addition to this assessment, we also conduct a pre-test at the beginning of the semester. We also assess other skills (Math and Algebra) that do not directly map into this assessment plan. (Active)

Criterion: At the end of the semester over 75% of students scoring better than 75% in Logic & Flowcharts.

Schedule: At least every two years

Related Documents:

[Survey_pt_Fin_d2l.csv](#)

[Syllabus - COMP119 Introduction to Computing and Problem Solving](#)

[Syllabus -Addendum COMP 119](#)

[119 Pretest Fall 2011](#)

Course Assignment(s) - COMP255 Database Design:

These course outcomes primarily support the Data Base component of the Concepts program outcome.

3 Course Objectives:

A: Conceptual Data Models assessed with embedded question 35 on Test 2

B: SQL - DDL assessed with embedded questions 24-26 Test 2

C: SQL - DML assessed with embedded questions 28-34 Test 2 (Active)

Criterion: At least 75% of students score above 75%

Schedule: At least every other year.

Related Documents:

[Syllabus - COMP255 Database Design](#)

[Syllabus -Addendum COMP 255](#)

Course Exam - COMP200 Fundamentals of Networking

3 selected assessments

These course outcomes primarily support the Networking component of the Concepts program outcome.

#1. Define the layers of the TCP/IP protocol Stack

#3. Describe the general layout of the Internet and operation of the Internet

#4. Describe the structure and layout of a Local Area Network

These are assessed with embedded questions in the final exam (Active)

Criterion: At least 75% of students score above 75%

Schedule: At least every other year.

Related Documents:

[Syllabus - COMP200 Fundamentals of Networking](#)

[Syllabus - Addendum COMP 200](#)

Course Exam - COMP 160 This course outcome primarily supports the Programming component of the Concepts program outcome.

Course Objective #2: Understand the way a high level programming language works.

This is assessed with a set of embedded questions in the final exam. (Active)

Criterion: Criterion: At least 75% of students score above 75% on the set of embedded questions.

Schedule: Schedule: At least every other year.

Related Documents:

[Syllabus - COMP160 Programming I](#)

[Syllabus - Addendum COMP 160](#)

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Course Assignment(s) - COMP 202 addresses basic concepts in the use of hardware and some script programming.

The course objectives are:

1. Create partitions on real and virtual storage devices
2. Install and configure operating systems and application software
3. Configure the OS environments, and implement user access and security
4. Write simple shell scripts to perform routine systems administration tasks (Active)

Criterion: At least 75% of students Succeed at at least 75% of the objectives

Schedule: At least every-other year

Outcome: Apply

Apply information to solve basic problems in programming, database, networking, and computational theory

Outcome Status: Active

Outcome Type: Academic Program Learning

Start Date: 05/10/2011

Specific Assessments

Course Assignment(s) - COMP 160:

Course Objective #3 "Code, compile, debug, test and output elementary to intermediate level programs using a high level programming language."

This Course objective primarily supports the Programming component of the Apply program outcome.

This is assessed with a set of programming assignments. (Active)

Criterion: At least 75% of students successfully complete at least 75% of the assignments

Schedule: Data gathered at least every other year.

Related Documents:

[Syllabus - Addendum COMP 160](#)

[Syllabus - Addendum COMP 160](#)

[Programming Assignment - Branching](#)

Capstone Assignment/Project - COMP475: Senior capstone project (Active)

Criterion: At least 75% of student projects evaluated as successful.

Schedule: At least every other year, beginning Spring 2012

Related Documents:

[Syllabus COMP475 Senior Capstone](#)

Course Assignment(s) - COMP 255: Assessment of database design skill using homework assignments (consisting of a DB project design and implementation) (Active)

Criterion: At least 75% of students develop satisfactory assignments.

Schedule: At least every-other year

Outcome: Writing

Demonstrate the ability to clearly communicate ideas in writing

Outcome Status: Active

Outcome Type: Academic Program Learning

Start Date: 05/10/2011

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Specific Assessments

Course Assignment(s) - COMP 220 Writing Assignment
(Active)

Criterion: At least 75% Score at least 3 on at least 4 of the 5 categories
On the Writing Rubric.

Schedule: At least every other year.

Related Documents:

[WE Rubric](#)

[Syllabus COMP 220 Contemporary Issues in computing](#)

Other - COMP 304 : Writing assignment (Active)

Criterion: At least 75% Score at least 3 on at least 4 of the 5 categories on the Writing Rubric.

Schedule: At least every other year

Other - COMP 405 : Writing assignment (Active)

Criterion: At least 75% Score at least 3 on at least 4 of the 5 categories on the Writing Rubric.

Schedule: At least every other year

Outcome: Verbal

Demonstrate the ability to clearly communicate ideas verbally

Outcome Status: Active

Outcome Type: Academic Program Learning

Start Date: 05/10/2011

Specific Assessments

Course Assignment(s) - 220: Student oral presentation. Speaking in front of class & use of slides/visual aids. (Active)

Criterion: At least 75% of students score at a 3 or above on at least 5 of the 6 standards on the Oral Communication (OC) Rubric.

Schedule: At least every other year.

Related Documents:

[Oral Communication \(OC\) Rubric](#)

[Syllabus COMP 220 Contemporary Issues in computing](#)

Capstone Assignment/Project - COMP475: Student oral presentation. Speaking in front of class & use of visual aids. (Active)

Criterion: At least 75% of students score at a 3 or above on at least 5 of the 6 standards on the Oral Communication (OC)

Rubric.

Schedule: At least every other year.

Related Documents:

[Oral Communication \(OC\) Rubric](#)

[Syllabus COMP475 Senior Capstone](#)

Outcome: Teamwork

Demonstrate the ability to effectively work in a team

Outcome Status: Active

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Outcome Type: Academic Program Learning

Start Date: 05/10/2011

Specific Assessments

Course Assignment(s) - COMP 220 Work productively in teams for group presentations (Active)

Criterion: At least 75% of students score at least an average of 2.5 (equally weighted over the 8 categories) on the Teamwork Rubric

Schedule: At least every other year.

Related Documents:

[Teamwork Rubric](#)

Other - COMP 255 Teamwork Work productively in teams on a project (Active)

Criterion: At least 75% of students score at least an average of 2.5 (equally weighted over the 8 categories) on the Teamwork Rubric

Schedule: At least every other year

Course Assignment(s) - COMP 305: Work productively in teams for one or more group assignments. (Active)

Criterion: At least 75% of students score at least an average of 2.5 (equally weighted over the 8 categories) on the peer evaluation Teamwork Rubric.

Related Documents:

[COMP305_peer_GroupRubric.doc](#)

Rubric - COMP 475 Teamwork Survey Rubric (Active)

Criterion: A formal teamwork survey for students to evaluate their teammates. The evaluation was based on the 8 categories in the standard department teamwork rubric. The overall evaluation is that a student falls below the standard if rated below the top 2 scores in at least 3 of the 8 categories.

Schedule: ideally at least every other year

Related Documents:

[Teamwork Rubric](#)

Outcome: Ethics

Demonstrate the ability to think critically regarding ethical issues related to technology use in society

Outcome Status: Active

Outcome Type: Academic Program Learning

Start Date: 05/10/2011

Specific Assessments

Course Assignment(s) - COMP220: Paper addressing the ethical issues of a relevant topic. (Active)

Criterion: At least 75% of students exhibit sound critical thinking regarding ethical issues related to the use of technology in society.

Schedule: At least every other year.

Related Documents:

[Paper Ethics Rubric](#)

[Syllabus COMP 220 Contemporary Issues in computing](#)

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Course Assignment(s) - COMP 475 Capstone Assignment focused on the ACM code of Ethics, and relating parts of this code to ethical theories (e.g., Kantianism, Utilitarianism, etc.). (Active)