Writing and critical thinking: Lash & Petkus

1. Provide a detailed description of the assignment(s) utilized to measure Effective Communication.

Effective communication will be assessed in multiple places in the CSC curriculum:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course** | **When** | **Who** | **Description** | **How Collected** |
| CSC2300 | F2020/CSC2300 | James Petkus | Student will respond to a prompt that requires analysis of the tradeoffs of a specific architectural component. | Rubric TBD |
| CSC4350 | F2020/CSC4350 | David Lash | Students will analyze an ethical dilemma caused by a real-life failure in Software Engineering ethics. | Rubric – Attached |

1. Provide a detailed description of the assignment(s) utilized to measure Critical Thinking.

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| --- | --- | --- | --- | --- |
| **Course** | When | **Who** | **Description** | **How Collected** |
| CSC3610 | F2020/CSC3610 | David Lash | Develop a computing problem to solved a specific problem and evaluate its complexity and algorithmic design choices. | A Standardized CSC3610 Midterm question will be used (see attachment) |

During a CSC3610 exam, students will be asked to analyze an assess and solve a problem that may have several different potential solutions.

1. Provide a detailed description of the assignment(s) utilized to measure Oral Communication (undergraduate students only).

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| **Course** | When | **Who** | **Description** | **How Collected** |
| CSC4990 | S2021/CSC4990 | David Lash | Students will be asked to give oral presentations that describe their project status | A rubric will be use (see attachment) |

**CSC Assessment - Kajjumba**

1. **PROPOSED NEW CURRICULAR/PEDAGOGICAL CHANGES RELATED TO OUTCOME 1:**

**The following changes should be completed next year:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ABET Criteria** | **Course and Semester** | **Parties Responsible** | **Change** |
| A - apply knowledge of computing | CSC4500/F2020 | **Wotaka Kajjumba** | During CSC4500 a database design problem (ERD) will be assigned to each individual that requires them to analyze the problem and build the appropriate tables, triggers, view, and indexes. |
| **I -** use current techniques, skills, and tools | During CSC2650 (Object  Oriented Programming ) , CSC4500 | **Wotaka Kajjumba** | During CSC2650 an exam question will evaluate student proficiency with Git.  During CSC4500 students will demonstrate the skill by individually connect to a database using a framework (e.g., node.js or flask, or ruby on rails). |

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| **K -** apply design and development principles in the construction of software systems of varying complexity | CSC4500 | Wotaka Kajjumba | CSC4500 should develop an assignment that requires the design and analysis of a database and construct it. | Rubric Attached |

**CSC Assessment - Lash**

**The following changes should be completed next year:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ABET Criteria** | **Course and Semester** | **Parties Responsible** | **Description** | **How Collected** |
| **D -** effectively on teams | **S2021/CSC4900** | **David Lash** | During CSC4990 the measure should be refined to assess the team roles, individual contribution and team cohesion. | F2021 Rubric |
| **F –** Communicate with wide audience | F2020/CSC4350 | **David Lash** | During CSC4350 a specific writing sample should be collected that requires a draft and completed paper.  During CSC4990 presentation assessments should be collected that require individual contribution | F2021 – A specific rubric TBD that assesses individual presentations. |

1. **PROPOSED NEW CURRICULAR/PEDAGOGICAL CHANGES RELATED TO OUTCOME 1:**

**The following changes should be completed next year:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ABET Criteria** | **Course and Semester** | **Parties Responsible** | **Description** | **How Measured** |
| **B -** analyze a problem, and identify and define the computing requirements | F2020/CSC4350 | David Lash | How Measured: During CSC4350 student will be required to develop a requirements analysis. | Rubric |
| **C -** design, implement, and evaluate a computer-based system | F2020/CSC3610 | David Lash | A Homework during this class can be used to show students can solve a problem of various complexity. | HW CSC3610 |
| **J -** algorithmic principles, and computer science theory in the modeling and design of computer-based systems | F2020/CSC3610 | David Lash | A specific exam question needs to be developed that requires analysis, solution and explanation of design choices | A Standardized CSC3610 Midterm question will be used |
| **ABET Criteria** | **Course and Semester** | **Parties Responsible** | **Description** | **How Measured** |
| E - professional, ethical, legal, security and social issues | F2020/CSC4350 | David Lash | During CSC4350 students will be required to answer a prompt about ethical dilemma. This paper will include a draft and final paper. | Rubric attached |
| H - continuing professional development | S2021/CSC4990 | David Lash | A prompt needs to be developed during CSC4990 that enables students to reflect and comment | TBD – Dec 2020 for collection S2021 |
| G - the local and global impact of computing | F2020/CSC4350 | David Lash | The prompt during the ethical dilemma should include an analyze of the impact on society. | Rubric attached |

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| **Course** | When | **Who** | **Description** | **How Collected** |
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**What to provide:**

I need the rubric you used and a rolled up analysis of the data. For example here is a sample of last year:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **What data sources were used** | **When were data collected** | **Indicator** | **Percent of students earning good or exemplary** | **2019-2020 Mean (sd)** | **2018-2019 Mean** | **2017-2018**  **Mean** |
| CSC4500 project | Fall 2019 | b) - analyze a problem, and identify and define the computing requirements | 100 | 3.5 (0.51) | 3.22 | 3.14 |
| CSC4990 capstone project | Spring 2020 | c)design and implement  c) dem. comprehension | 42%  45% | 3.23 (1.36)  N/A | 3.11 | 3.23 |
| CSC4500 project | Fall 2019 | g) Global impact | 70 | 3.1 (0.86) | 2.94 | 3.04 |
| CSC4990 capstone project | Spring 2020 | k) | 100 | 3.6 (0.55) | 2.89 | 3.27 |