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| **Assurance of Student Learning Report**  **2023-2024** | | |
| Ogden | | *Replace this with your Department Name* |
| Computer Information Technology, 555 | | |
| Mark A. Revels, Ph. D. | | |
| ***Is this an online program***?  Yes  No | Please make sure the Program Learning Outcomes listed match those in CourseLeaf . Indicate verification here  Yes, they match! (If they don’t match, explain on this page under **Assessment Cycle)** | |

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| ***Use this page to list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed in the subsequent pages. Add more Outcomes as needed.*** | | | |
| **Program Student Learning Outcome 1:**  **Validation of individual student mastery of CIT technical domains.** | | | |
| **Instrument 1** | **DIRECT measures of student learning via assessment artifacts from CIT 490 Senior Research course.** | | |
| **Based on your results, check whether the program met the goal Student Learning Outcome 1.** | | **Met** | **Not Met** |
| **Program Student Learning Outcome 2: Examination of aggregate student mastery of CIT technical domains.** | | | |
| **Instrument 1** | **DIRECT measures of student learning via assessment artifacts from CIT 490 Senior Research course.** | | |
| **Based on your results, check whether the program met the goal Student Learning Outcome 2.** | | **Met** | **Not Met** |
| **Assessment Cycle Plan:** | | | |
| The program is concerned with the study of the theoretical foundations od [information](https://en.wikipedia.org/wiki/Information) and [technology](https://en.wikipedia.org/wiki/Technology) and their implementation and application in the [computer systems](https://en.wikipedia.org/wiki/Computer). Its activity ranges from fundamental concepts such as systems architectures, systems development and programming, databases, and networking and telecommunications to applied areas such as network administration and securities, database administration, and systems development. Given that this is mainly an online program, with few courses offered in-class, the program relies on measuring students’ knowledge of utilizing skills and knowledge from prior courses in their degree program throughout capstone CIT 490 Senior Research course. The course allows students to contribute original work and ideas of CIT concepts that culminate in documentation that demonstrates their learning and understanding of these concepts.  Program Learning Outcomes listed are hard to match those in CourseLeaf because ~75% of CIT students transfer with an AAS in IT, they only take four required courses, of which only three represent the technical domains: database, networks, and technology management concepts. The rest (seven courses) are assembled elective grab bag of courses from technical domains of which students are invited to pick among them. Thus, it is difficult to draw specific conclusions about individual domain assessment gain scores since different students take different electives that may or may not support learning in a specific domain. As a result, we also validate student mastery of the CIT technical domains through an aggregate gain score of CIT technical domain assessments. | | | |

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| **Program Student Learning Outcome** | | | | | |
| **Program Student Learning Outcome** | **Validation of individual student mastery of CIT technical domains.** | | | | |
| **Measurement Instrument 1** | DIRECT measure of student learning: All CIT students must take CIT 490 Senior Research course, which is similar to certification exams, cover the applied CIT areas of network administration and securities, database administration, and systems development. Scores are associated with each student. Even so, because ~75% of CIT students transfer with an AAS in IT, they only take four required courses, of which three represent the technical domains and the rest (seven courses) are elective that may or may not support learning in a specific domain. As a result, the program also validates student based on mastery learning assessment score mapped to CIT 490 course learning outcomes. | | | | |
| **Criteria for Student Success** | For success, a minimum of 70% score should be achieved. | | | | |
| **Program Success Target for this Measurement** | | 70% of the students should have a 75% score or better. | **Percent of Program Achieving Target** | 77.2% of students achieved the target. | |
| **Methods** | For the period, CIT learning domain assessments were delivered in CIT 490 Senior Research course, including:   * Networking and security: incorporating key computer security tools and practices from product conception, requirements, implementation, and evaluation, applying previous experiences from CIT 370, 372, 416, 472, 476, 482 and other classes. * Database administration: selecting a data science question and crafting an end-to-end data management process including transformation, exploration, modeling, and evaluation choices to answer that question, applying previous experiences from CIT 350, 352, 452, 454, 486, and other classes. * Systems development: applying software engineering and system design skills toward building or enabling a novel computing application applied to computing scenarios, applying previous experiences from CIT 330, 332, 432, and 436 other classes.   Student count: 44  Avg score: 80.32 %  Std deviation: 6.93  Student count above 75% score: 34 | | | | |
| **Based on your results, highlight whether the program met the goal Student Learning Outcome 1.** | | | | **Met** | **Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** | | | | | |
| DIRECT measure of student learning: All CIT students’ must take course, CIT 490 ssessments, which are similar to certification exams, cover the technical domains of networking and security, database administration, and systems development.  Continue for this action is scheduled for spring 2025. | | | | | |

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| **Program Student Learning Outcome 2** | | | | | |
| **Program Student Learning Outcome** | **Examination of aggregate student mastery of CIT technical domains.** | | | | |
| **Measurement Instrument 2** | DIRECT measure of student learning: It is difficult to draw specific conclusions about individual CIT domain assessment scores since different students take different electives that may or may not support learning in a specific domain. Even so, a significant change in an individual learning domain assessment score average could indicate issues in that domain’s curriculum or delivery. As a result, we also validate student mastery assessment of the CIT technical domains through an aggregate gain score sought out of the CIT 490 Senior Research course, including:   * Identify, formulate, and solve information technology problems. * Apply information technology design to produce solutions that meet specified needs with consideration of public safety and welfare, as well as cultural, social, and economic factors. * Communicate effectively with a range of audiences. * Recognize ethical and professional responsibilities and make informed judgments, which must consider the impact of information technology solutions in economic and societal contexts. * Develop and conduct appropriate experimentation, analyze and interpret data, and use judgment to draw conclusions. | | | | |
| **Criteria for Student Success** | For success, 70% score should be achieved. | | | | |
| **Program Success Target for this Measurement** | | 50% of the students should have an 80% score or better. | **Percent of Program Achieving Target** | 52.3% of students achieved the target. | |
| **Methods** | For the period, 44 students completed CIT 490 course learning outcomes assessments.  Student count: 44  Max gain score %: 95  Min gain score %: 70  Avg gain score % : 80.32  Median score %: 80  Std Dev: 6.93  Student count above 80% score: 23 | | | | |
| **Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.** | | | | **Met** | **Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** | | | | | |
| Follow-up for this action will be scheduled for spring 2025. | | | | | |

