| Assurance of Student Learning | | | | |
|-------------------------------------|--|--|--|--|
| 2018-2019 | | | | |
| Ogden | School of Engineering and Applied Sciences | | | |
| Computer Information Technology 555 | | | | |

| Use this page to list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed in the subsequent pages. | | | | | |
|--|---|-----|---------|--|--|
| Student Lea | rning Outcome 1: Validation of student mastery of CIT technical domains | | | | |
| Instrument 1 | | | | | |
| Instrument 1 | DIRECT measures of student learning | | | | |
| Instrument 2 | | | | | |
| Instrument 3 | | | | | |
| Based on your | results, circle or highlight whether the program met the goal Student Learning Outcome 1. | Met | Not Met | | |
| Student Lea | rning Outcome 2: Examination of student mastery of CIT technical domains | | | | |
| Instrument 1 | DIRECT measures of student learning | | | | |
| Instrument 2 | | | | | |
| Instrument 3 | | | | | |
| Based on your | results, circle or highlight whether the program met the goal Student Learning Outcome 2. | Met | Not Met | | |

| | | Student Learning Outcom | ne 1 | | | | |
|---|---|--|--|---|-------------------|--|--|
| Student Learning Outcome | Validation of student mastery of CIT technical domains | | | | | | |
| Measurement Instrument 1 | DIRECT measure of student learning: All CIT students are given six assessments in the entry course CIT 300, then again in the exit course AMS 490. The assessments, which are similar to certification exams, cover the technical domains of database, hardware, networks, programming, security, and technology management. Scores are associated with each student, which allows for pairwise comparison. Eve 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. The rest (seven courses) are elective. 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 validate student mastery of the CIT technical domains through an aggregate gain score of CIT technical domain assessments. | | | | | | |
| Criteria for Student Success | For success, a minimum aggregate percentage gain score of 30% should be achieved. | | | | | | |
| Program Success Target for this Measurement | | An aggregate percentage gain score of 36% was achieved. Percent of Program Achieving Tar | | t As an aggregate, 100% of the program achieved the target. | | | |
| Methods | networks, progra Percentage gain Student Count: Max gain score Min gain score Avg gain score Std Dev: It should be note | 2 %: 154 %: -2 | hese scores were then compared to their er lerived: an be attributed to students discounting the | ntry assessmen | ts in CIT300. | | |
| Based on your results, circle or | highlight whether | the program met the goal Student Learning Ou | itcome 1. | Met | Not Met | | |
| | aise domain scores ctions, including 11 | actions planned for program improvement. The ac s was to create and offer new courses on a regula new (On Demand) courses: | | ered 14 section | s. In the fall of | | |
| CIT 412. ADVANCED SYSTEMS AR | | | | | | | |
| CIT 414. ADVANCED SYSTEMS AR | CHITECTURE II | | | | | | |

CIT 432. ADVANCED SYSTEMS DEVELOPMENT I CIT 456. SYSTEMS ANALYSIS & DESIGN I CIT 458. SYSTEMS ANALYSIS & DESIGN II CIT 472. ADVANCED TELECOMMUNICATIONS I CIT 486. KNOWLEDGE MANAGEMENT CIT 492. TECHNOLOGY MANAGEMENT I

Another strategy the program took to raise domain scores was to hire a full-time faculty member, which replaced adjunct instruction in 300-level CIT courses.

Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)

Because the program did not collect student learning outcome data before it was transitioned from University College to Ogden, and because it took several years to develop the capstone class and get students through that pipeline, there is no follow-up data yet available.

| | | Student Learning Outcome | e 2 | | | | |
|----------------------------------|--|---|---|--|---------|--|--|
| Student Learning Outcome | Examination of student mastery of CIT technical domains | | | | | | |
| Measurement Instrument 1 | 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 domain assessment score average could indicate issues in that domain's curriculum or delivery. As a result, we also validate student mastery of the CIT technical domains through a satisfactory individual CIT technical domain assessment averages. | | | | | | |
| Criteria for Student Success | For success, a minimum average gain score for any specific domain will be greater than 15%. | | | | | | |
| Program Success Target for this | s Measurement | The lowest individual domain percentage gain score was 21%, which exceeds target. | Percent of Program Achieving Target | All domain asse averaged bette gain score. | | | |
| Methods | database, hardw | e %: 69 %: 21 | logy management. These scores were then | | - | | |
| Based on your results, circle or | highlight whether | • the program met the goal Student Learning Out | tcome 2. | Met | Not Met | | |

Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)

A strategy the program took to raise domain scores was to create and offer new courses on a regular basis. In the fall of 2014, the program offered 14 sections. In the fall of 2019, the program offered 28 sections, including 11 new (On Demand) courses:

CIT 302. WEB DEVELOPMENT CIT 352. DATABASE ADMINISTRATION II CIT 372. TELECOMMUNICATIONS II CIT 412. ADVANCED SYSTEMS ARCHITECTURE I CIT 414. ADVANCED SYSTEMS ARCHITECTURE II CIT 432. ADVANCED SYSTEMS DEVELOPMENT I CIT 456. SYSTEMS ANALYSIS & DESIGN I CIT 458. SYSTEMS ANALYSIS & DESIGN II CIT 472. ADVANCED TELECOMMUNICATIONS I CIT 486. KNOWLEDGE MANAGEMENT CIT 492. TECHNOLOGY MANAGEMENT I

Another strategy the program took to raise domain scores was to hire a full-time faculty member, which replaced adjunct instruction in 300-level CIT courses.

Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)

Because the program did not collect student learning outcome data before it was transition from University College to Ogden, and because it took several years to develop the capstone class and get students through that pipeline, there is no follow-up data yet available.