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| Program-Level Learning Outcome (e.g. Students will describe the impact of various cultures on American cuisine.) | Assessment Measure(s) and Where Implemented in Curriculum – Description of Instrument(s)/ process(es) used to measure results and indication of where the assessment will be collected in curriculum. (e.g. Essay on Cultural influences on American cuisine in CUIS 1300.) | Targets- Level of Success Expected(e.g. 80% of students score 2.5 or better on rubric for essay on cultures and cuisine.) |
| PLO #1The students will be able todesign, develop, and implement a relational database based on the requirements of thestakeholders. | Course Project in ITSE 2309-Database Programming-SQL. This assessment evaluates a student’s ability to design a multiple table database that is normalized to at least third normal form, contains primary and foreign keys (if applicable) and is populated with relevant datasets. | 80% of students score 2.5 or better on project rubric |
| PLO #2The students will be able toprepare design specificationsand functional documents fordatabase projects based on therequirements of thestakeholders. | Final Project in ITSE 1346-Database Theory and Design. This assessment requires students to take stakeholder requirements for a database project into consideration in order to prepare design specifications, employ data modelling, and create a database functional design document that resolves a business need in the project scenario. | 80% of students score 2.5 or better on project rubric |
| PLO #3The students will be able to describe optimization methods database systems for performance efficiency based on the requirements of the stakeholders.  | Case project A in ITSE 2354-Advanced Oracle PL/SQL. This assessment evaluates the student’s ability to effectively describe optimization methods of database systems for performance efficiency and pose conclusions that demonstrate their critical thinking skills given stakeholder requirements | 73% of students score 2.5 or better on Case Project A rubric |
| PLO #4The students will be able to test and identify challenges and issues involving database performance and devise solutions to correct the issues. | Case project B in ITSE 2354-Advanced Oracle PL/SQL. This assessment evaluates the student’s ability to apply skills to identify performance issues in an existing database and to devise solutions that correct the issues and optimize database performance. | 73% of students score 2.5 or better on Case Project B rubric |
| PLO #5The students will be able to devise and implement security plans with procedures to protect databases. | Unit Project on database security in ITSE 1346-Database Theory and Design. This assessment evaluates the student’s ability to evaluate the environment of a physical database (i.e. hardware and software) for security vulnerabilities then devise plans and procedures to protect databases using SQL and functional design/requirements documents. | 80% of students score 2.5 or better on project rubric |

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| Assessment DataSpring 2023 | Assessment DataFall 2023 |
| 77% of students (10 out of 13) scored 2.5 or better.  | 90% of students (9 out of 11) scored 2.5 or better.  |
| 68% of students (13 out of 19) scored 2.5 or better.  | 90% of students (18 out of 21) scored 2.5 or better.  |
| Not taught in Spring, 2023. | 75% of students (6 out of 8) scored 2.5 or better.  |
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