Outcome Assessment Timeline

Academic Programs

Engineering

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| **APR /SLO 3-Year Cycle** | **2021-2024** |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| ENGR101 - INTRODUCTION TO ENGINEERING CAREERS | Student will examine the various fields of engineering and submit a written report or oral report. (ENGR101;ISLO2) | Fall 2022 | Spring 2023 |
| Student will analyze the educational requirement for a BS in engineering and construct a flow chart mapping course sequence including prerequisites. (ENGR101;ISLO4) | Fall 2022 | Spring 2023 |
| ENGR110 - ENGINEERING DESIGN AND GRAPHICS | Students will analyze engineering data from different physical situations and recognize the underlying engineering design concepts required to solve problems. (ENGR110;ISLO5) | Spring 2023 | Fall 2023 |
| Students will effectively communicate their ideas with the others by suggesting, assessing, and contrasting different approaches to the in class engineering design problems and homework assignments. (ENGR110;ISLO1) | Spring 2023 | Fall 2023 |
| ENGR120C - ENGINEERING PROBLEM ANALYSIS-CC LANGUAGE | Students will analyze engineering data from different physical situations and recognize the underlying engineering programming concepts required to solve problems. (ENGR120C;ISLO5) | Fall 2022 | Spring 2023 |
| Students will effectively communicate their ideas with the others by suggesting, assessing, and contrasting different approaches to the class programming problems and homework assignments. (ENGR120C;ISLO1) | Fall 2022 | Spring 2023 |
| Students will formulate and analyze engineering problems visually and mathematically by translating words into mathematical equations and diagrams, then write a computer program to solve the problem. (ENGR120C;ISLO6) | Fall 2022 | Spring 2023 |
| ENGR250 - ENGINEERING STATICS | Students will effectively communicate their ideas with the others by suggesting, assessing, and contrasting different approaches to the in class problems and homework assignments. (ENGR250:ISLO5) | Fall 2022 | Spring 2023 |
| Students will analyze engineering data from different physical situations and recognize the underlying engineering concepts. (ENGR250;ISLO5) | Fall 2022 | Spring 2023 |
| Students will formulate and analyze engineering problems visually and mathematically by translating words into mathematical equations and diagrams, then find quantitative solutions. (ENGR250;ISLO6) | Fall 2022 | Spring 2023 |
| ENGR251 - ENGINEERING DYNAMICS | Students will effectively communicate their ideas with the others by suggesting, assessing, and contrasting different approaches to the in class problems and homework assignments. (ENGR251;ISLO4) | Spring 2023 | Fall 2023 |
| Students will analyze engineering data from different physical situations and recognize the underlying engineering concepts. (ENGR251;ISLO5) | Spring 2023 | Fall 2023 |
| Students will formulate and analyze engineering problems visually and mathematically by translating words into mathematical equations and diagrams, then find the quantitative solutions. (ENGR251;ISLO6) | Spring 2023 | Fall 2023 |
| ENGR270 - ELECTRICAL CIRCUITS | Students will effectively communicate their ideas with the others by suggesting, assessing, and contrasting different approaches to the in class problems and homework assignments. (ENGR270;ISLO1) | Spring 2023 | Fall 2023 |
| Students will formulate and analyze engineering problems visually and mathematically by translating words into mathematical equations and diagrams, then find the quantitative solutions. (ENGR270;ISLO6) | Spring 2023 | Fall 2023 |
| Students will analyze engineering data from different physical situations and recognize the underlying engineering concepts. (ENGR270;ISLO5) | Spring 2023 | Fall 2023 |
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| **Program** | **Program-Level Student Learning Outcome (PSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| Engineering 01565 Associate in Science | Develop mathematical skills, acquire engineering knowledge, and practice applying these skills and knowledge to engineering problems. | 2017 - 2020 | Fall 2020Fall 2024 |