Outcome Assessment Timeline

Academic Programs

Architecture

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| **APR /SLO 3-Year Cycle** | **2016-2019** |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| **ARCH 101** | ARCH 101 SLO #1 The student will be able to present their design solutions explaining rationale for their decision making. | Fall 2018 | Fall 2019 |
| ARCH 101 SLO #2 The student will be able to analyze theories and principles of design to formulate solutions to architectural design problems. | Fall 2018 | Fall 2019 |
| ARCH 101 SLO #3 The student will be able to communicate their design intent graphically as well as three-dimensionally. | Fall 2018 | Fall 2019 |
| **ARCH 110** | ARCH 110 SLO #1 Student will be given a three-dimensional object, be able to apply concepts of proportion and scale, and create a finished sketch that will accurately suggest the form of the object. | Fall 2018 | Fall 2019 |
| ARCH 110 SLO #2 Student will be given a three-dimensional scenario, be able to synthesize the elements of a composition and develop them into a drawing within a given time frame. | Fall 2018 | Fall 2019 |
| **ARCH 112** | ARCH 112 SLO #1 Student will be able to synthesize the elements of composition and develop them into a finished rendering. | Fall 2018 | Fall 2019 |
| ARCH 112 SLO #2 Student will be given examples of the elements of entourage, represent these elements in proper scale, line tone, and compose them in a completed rendering. | Fall 2018 | Fall 2019 |
| **ARCH 115** | ARCH 115 SLO #1 The student will be able to develop graphic drawings that will communicate the design intentions of the student. | Fall 2018 | Fall 2019 |
| ARCH 115 SLO #2 The student will be able to analyze plans and elevations and develop accurate three-dimensional drawings that will describe the design. | Fall 2018 | Fall 2019 |
| **ARCH 150** | ARCH 150 SLO #1 Student will be able to present their design concepts through oral presentation which will include justifications for design decisions through their analysis and synthesis of data. | Fall 2018 | Fall 2019 |
| ARCH 150 SLO #2 The student will be able to formulate design solutions based upon analysis of program requirements and design problem solving strategies. | Fall 2018 | Fall 2019 |
| **ARCH 151** | ARCH 151 SLO #1 The student will be able to make an oral presentation of their design solutions explaining rationale for their decision making. | Spring 2019 | Fall 2019 |
| ARCH 151 SLO #2 The student will be able to utilize theories and principles of design to formulate solutions to architectural design problems. | Spring 2019 | Fall 2019 |
| **ARCH 165** | ARCH 165 SLO #1 Student will be given a building scenario, determine the principle drawings and organization necessary for a set of construction documents. | Spring 2019 | Fall 2019 |
| ARCH 165 SLO #2 Student will be given appropriate instructions for a particular construction detail and produce a detailed drawing suitable for use in a set of architectural construction documents. | Spring 2019 | Fall 2019 |
| **ARCH 200** | ARCH 200 SLO #1 Student will be given a design project and will correctly demonstrate the use of all the AutoCAD commands in order to complete an architectural drawing. | Fall 2018 | Fall 2019 |
| ARCH 200 SLO #2 The student will demonstrate how to properly layer and electronically cross-reference architectural drawings using AutoCAD. | Fall 2018 | Fall 2019 |
| **ARCH 201** | ARCH 201 SLO #1 Student will be able to develop fully parametric building information models utilizing bidirectional associativity and manage the evolution of a project into construction documents. | Spring 2019 | Fall 2019 |
| ARCH 201 SLO #2 Student will be able to develop BIM models while incorporating BIM best practice techniques using Revit. | Spring 2019 | Fall 2019 |
| **ARCH 204**Note: This course has not been offered since Spring 2012. Faculty will discuss course discontinuance during Spring 2019 term. | ARCH 204 SLO #1 Student will analyze a buildings climatic response due to building orientation and climate region using Revit. | Spring 2012 | Fall 2019 |
| ARCH 201 SLO #2 Student will develop an energy inventory for a building using the energy analysis tools in Revit. | Spring 2012 | Fall 2019 |
| **ARCH 208** | ARCH 208 SLO #1 Student will identify and describe prehistorical architecture through 18th century architecture. | Fall 2018 | Fall 2019 |
| ARCH 208 SLO #2 Student will identify and describe the influences and forces that most critically impacted the design and building practices of past cultures and societies. | Fall 2018 | Fall 2019 |
| **ARCH 209**Note: This course has not been offered since Spring 2012. Faculty will discuss course discontinuance during Spring 2019 term. | ARCH 209 SLO #1 Student will be able to measure horizontal distances within an accuracy of plus or minus two inches utilizing measuring tapes, plum bobs, and surveyor’s pins.  | Spring 2012 | Fall 2019 |
| **ARCH 210** | ARCH 210 SLO #1 Student will identify and describe the elements of early 18th century architecture and the Industrial Revolution through end of 20th century architecture. | Spring 2019 | Fall 2019 |
| ARCH 210 SLO #2 Student will demonstrate an understanding of the influences and forces that most critically impact the design and building practices of both the past and the present. | Spring 2019 | Fall 2019 |
| **ARCH 222** | ARCH 222 SLO #1 Student will be able to calculate heat loss through given building envelope and climate conditions. | Spring 2019 | Fall 2019 |
| ARCH 222 SLO #2 Student will make specific architectural recommendations based on an analysis of climate data. | Spring 2019 | Fall 2019 |
| **ARCH 235** | ARCH 235 SLO #1 Student will be able to calculate the stresses within the shape and the resultant horizontal shear developed within the form given concepts of stress and strain and a specific loading condition on a particular structural shape. | Fall 2018 | Fall 2019 |
| ARCH 235 SLO #2 Student will be able to calculate the maximum bending moments and resultant deformation in beams given concepts of shear, bending, and loading conditions. | Fall 2018 | Fall 2019 |
| **ARCH 252** | ARCH 252 SLO #1 The student will be able to orally present their design project and explain the rationale for their design decisions. | Fall 2018 | Fall 2019 |
| ARCH 252 SLO #2 The student will be able to employ the principles and theories of architectural design and develop solutions for an architectural problem. | Fall 2018 | Fall 2019 |
| **ARCH 253** | ARCH 253 SLO #1 The student will be able to analyze, evaluate, and synthesize information and develop solutions to an architectural problem. | Spring 2019 | Fall 2019 |
| ARCH 253 SLO #2 The student will be able to orally present their design solutions emphasizing rationale for their design choices. | Spring 2019 | Fall 2019 |
| **ARCH 265** | ARCH 265 SLO #1 Student will be able to identify, evaluate, and select proper construction methods and materials. | Fall 2018 | Fall 2019 |
| ARCH 265 SLO #2 The student will be able to develop construction documents that reflect proper relationships between building elements. | Fall 2018 | Fall 2019 |
| **ARCH 266** | ARCH 266 SLO #1 Students will be able to identify, evaluate, and select proper construction methods and materials. | Spring 2019 | Fall 2019 |
| ARCH 266 SLO #2 The student will be able to develop construction documents that reflect proper relationships between building elements. | Spring 2019 | Fall 2019 |
| **ARCH 299**Note: This course has not been offered since Spring 2016. SLOs were last measured in Spring 2012. | Student will be able to synthesize the elements of composition and develop them into a finished rendering. | Spring 2012 | Fall 2019 |
| Student will be given examples of the elements of entourage, represent these elements in proper scale, line tone, and compose them in a completed rendering. | Spring 2012 | Fall 2019 |
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|  |  | **Measure/Collect Data** | **Discuss & Plan** |
| **Program** | **Program-Level Student Learning Outcome (PSLO)** | 2016-2019 | Fall 2019 |
| Architecture Associate in Arts Transfer 1940 | Major Code: 1940 PSLO #1 Develop critical thinking skills in a problem/project-based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions. Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students. Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects. Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity. Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession. | 2016-2019 | Fall 2019 |
| Architecture Technology AS CTE 2840 | Major Code: 2840 PSLO #1 Develop critical thinking skills in a problem/project-based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions. Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students. Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects. Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity. Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession. | 2016-2019 | Fall 2019 |
| Architecture Technology – Certificate of Achievement A2842 | Major Code: A2842 PSLO #1 Develop critical thinking skills in a problem/project-based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions. Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students. Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects. Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity. Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession. | 2016-2019 | Fall 2019 |