

## Industry and Technology Institutional (ILO), Program (PLO), and Course (SLO) Alignment

Use the checklists provided to evaluate your SLO statements. Please add or revise PLO and SLO statements directly on this form.  
Or, if you prefer to make changes on the electronic version contact your Facilitators (Pati Fairchild or SueEllen Warren) or your Division Administrative Assistant (Denise Spurlock) to have the grid emailed to you. When SLO, PLO and ILO alignment changes are made, please make changes in red. Return the completed grid to your Facilitator by Friday, Nov 8<sup>th</sup>

|   |  |   |   |                                      |  |   |
|---|--|---|---|--------------------------------------|--|---|
| <b>Program: Architecture</b>  | <b>Number of Courses:</b><br><b>13</b> | <b>Date Updated:</b>                            | <b>Submitted by:</b><br>Michael Stallings |                                      |  |   |
| <b>ILO Rating Rubric</b><br><b>4</b> - A major focus of the course. Direct instruction is provided. Students are evaluated multiple times (and possibly in various ways) throughout the course.<br><b>3</b> - An important part of the course. Some direct instruction is provided and students are evaluated on the concepts once or twice within the course.<br><b>2</b> - Only a minor focus of the course. Some instruction is given in the area but students are not formally evaluated on the concepts.<br><b>1</b> - May be tangentially part of the class, but is not directly taught or evaluated or is not part of the course at all.   |  |   |   |                                      |  |   |
| <b>Institutional Learning Outcomes (ILOs)</b>   | I. Content Knowledge                   | II. Critical, Creative, and Analytical Thinking | III. Communication and Comprehension      | IV. Professional and Personal Growth | V. Community and Collaboration                     | VI. Information and Technology Literacy |
| <b>Overall Rating</b><br><small>Rate each from 1-4 based on above rubric.</small>   | 4                                      | 3   | 3   | 3                                    | 1  | 4                                       |
| <b>Program Level SLOs</b> A minimum of 3 and maximum of 6 PLOs. There are, however, exceptions. For example, if department faculty have developed one or two comprehensive PLO statements that reflect the program mission and covers the major components and the overarching goals of the program, they may present them to their Dean and Facilitator for approval as is. In cases where the facilitator or dean or faculty disagree with the rigor of the statements, the PLO statement will be forwarded to the Assessment of Learning Committee (ALC) for review and recommendations.<br><i>Include PLO #, Short Title, and PLO statement. Example: PLO #2 Ethics and Professionalism</i> |  |   |   |                                      | <b>ILOs to Course Alignment</b><br>(Rate each 1-4) |   |
|   |  |   |   |                                      | I  | II                                      |
|   |  |   |   |                                      | III  | VI                                      |
|   |  |   |   |                                      | V  | I                                       |
| <b>PLO #1 Construction Documents</b> Upon completion of the Architecture Program, a student will be able to design a building and draw the construction documents and specifications necessary for contractors to build it.   |  |   |   |                                      | 4  | 3                                       |
| <b>PLO #2 Design Drawings</b> Upon completion of the Architecture Program, a student will be able to create conceptual diagrams that illustrate the main idea in the solution of the design problem given to the student.   |  |   |   |                                      | 3  | 4                                       |
| <b>PLO #3 Computer Software</b> Upon completion of the Architecture Program, a student will be able to use various computer software to generate various kinds of drawings to show the process of a project from Design Sketches, Massing Models, Building Perspectives and Construction Documents.   |  |   |   |                                      | 4  | 2                                       |
|   |  |   |   |                                      | 3  | 3                                       |
|   |  |   |   |                                      | 2  | 4                                       |





| <b>Course Level SLOs</b><br>Minimum of 3 and maximum of 6 SLOs.<br><i>Include SLO #, Short Title, and SLO Statement</i><br><i>Example: Math 170 SLO #3 Vectors and Complex Numbers</i>  | <b>Course to PLO Alignment</b><br><i>Mark with an X if you will use the course when assessing your PLO.</i> |    |    | <b>ILOs to Course Alignment</b><br>(Rate each 1-4) |    |     |    |   |    |
|---|---|----|----|--|----|-----|----|---|----|
|   | P1  | P2 | P3 | I  | II | III | IV | V | VI |
| <b>ARCH 125 Advanced Three-Dimensional Architectural Computer Aided Design: SLO #1 Animating a Design</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate the knowledge of a parametric based computer Aided Design software enough to be able to animate a “fly-around” and “walk-through” animated sequence of the proposed building design. BIM (Building Information Modeling) analyzing components of the software will be taught to reinforce the various structural, material and environmental conscious aspects of the design. | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |
| <b>ARCH 125 Advanced Three-Dimensional Architectural Computer Aided Design: SLO #2</b>  |   |    |    |  |    |     |    |   |    |
| <b>ARCH 125 Advanced Three-Dimensional Architectural Computer Aided Design: SLO #3</b>  |   |    |    |  |    |     |    |   |    |
| <b>ARCH 150A Architectural Drafting I: SLO #1 Lines and Lettering</b> Upon completion of a beginning course of study in architecture drawing, a student will develop an architectural drawing technique of Lines and Lettering to create a series of drawings.  | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |
| <b>ARCH 150A Architectural Drafting I: SLO #2 Graphic Instructions</b> Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD System; will use proper graphic techniques to complete instructions.  | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |
| <b>ARCH 150A Architectural Drafting I: SLO #3 Spatial Organization</b> Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.   | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |
| <b>ARCH 150A Architectural Drafting I: SLO #4 Graphic Technique</b> Given lecture explanation and graphic examples of architectural drawing line values and line types, students will correctly apply that graphic technique to their project drawings.   | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |

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|---|---|----|----|--|----|-----|----|---|----|
|   | P1  | P2 | P3 | I  | II | III | IV | V | VI |
| <b>ARCH 150B Architectural Drafting II: SLO #1 Two-Story House</b> Upon completion of this advanced course, the student will be able to draw all of the construction documents for a two story house on AutoCAD software.   | X   |    |    | 4  | 3  | 2   | 2  | 1 | 4  |
| <b>ARCH 150B Architectural Drafting II: SLO #2 Model</b> Upon completion of this class, a student will be able to build a massing model from the drawings they create.  | X   |    |    | 3  | 2  | 3   | 3  | 1 | 3  |
| <b>ARCH 150B Architectural Drafting II: SLO #3 Stair Design</b> Upon completion of this course a student will be able to design, calculate and draw a stairway for a pre-described area of space given to them. They will meet all current Building Codes related to stair design.  | X   |    |    | 4  | 3  | 3   | 2  | 1 | 3  |
| <b>ARCH 158 Structure Analysis - Timber: SLO #1 Beams and Lateral Bracing</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate the knowledge of the function of structural components in residential buildings. Students will be able to calculate the size of beams, columns and lateral bracing systems of light framed wood structures. | X   |    |    | 4  | 4  | 2   | 3  | 1 | 4  |
| <b>ARCH 158 Structure Analysis - Timber: SLO#2 Graphic Techniques</b> Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD system; will use proper graphic techniques to complete instructions.   | X   |    |    | 4  | 4  | 2   | 3  | 1 | 4  |
| <b>ARCH 158 Structure Analysis - Timber: SLO#3 Spatial Organization</b> Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.  | X   |    |    | 4  | 4  | 2   | 3  | 1 | 4  |

| <b>Course Level SLOs</b><br>Minimum of 3 and maximum of 6 SLOs.<br>Include SLO #, Short Title, and SLO Statement<br>Example: Math 170 SLO #3 Vectors and Complex Numbers   | <b>Course to PLO Alignment</b><br>Mark with an X if you will use the course when assessing your PLO. |    |    | <b>ILOs to Course Alignment</b><br>(Rate each 1-4) |    |     |    |   |    |
|--|--|----|----|--|----|-----|----|---|----|
|  | P1   | P2 | P3 | I  | II | III | IV | V | VI |
| <b>ARCH 170 Architectural Graphic Techniques: SLO #1 Graphic Tools</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate the ability to delineate the entourage necessary to illustrate an architectural presentation drawing. The student will be knowledgeable in the use of various graphic tools that architects use in their office to delineate presentation drawings. |  | X  |    | 4  | 3  | 4   | 3  | 2 | 2  |
| <b>ARCH 170 Architectural Graphic Techniques: SLO #2 Orthographic Projection</b> Given lecture material, students will be able to orthographically project elevation and section views of buildings from plan views of said building.  |  | X  |    | 3  | 3  | 3   | 3  | 1 | 3  |
| <b>ARCH 170 Architectural Graphic Techniques: SLO #3 Illumination</b> Given lecture material, handouts and classroom discussion, students will be able to illuminate objects in plan, elevation and perspective so as to show materials in illuminated form as well as showing shade and shadow forms.   |  | X  |    | 4  | 3  | 4   | 3  | 1 | 3  |
| <b>ARCH 171 Architectural Three-Dimensional Illustrations: SLO #1 Three Dimensional Drawings</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate the ability to draw and delineate numerous three dimensional drawings such as Isometrics, Axonometrics, Obliques, One, Two and Three Point Perspectives.  |  | X  |    | 4  | 3  | 4   | 3  | 1 | 3  |
| <b>ARCH 171 Architectural Three-Dimensional Illustration: SLO#2 Graphic Techniques</b> Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD system; will use proper graphic techniques to complete instructions.   |  | X  |    | 4  | 3  | 3   | 3  | 1 | 3  |
| <b>ARCH 171 Architectural Three-Dimensional Illustration: SLO#3 Spatial Organization</b> Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.  |  | X  |    | 4  | 4  | 3   | 3  | 1 | 3  |

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|--|---|----|----|--|----|-----|----|---|----|
|  | P1  | P2 | P3 | I  | II | III | IV | V | VI |
| <b>ARCH 172 Architectural Color Rendering Techniques: SLO #1 Color Theory</b> Given lecture information, handouts and in-class discussions, students will be able to demonstrate knowledge of color theory that architectural illustrators use in various circumstances. Understanding where colors are on the color wheel is important to theoretical choices made for the selection of colors. |   | X  |    | 4  | 3  | 2   | 3  | 1 | 3  |
| <b>ARCH 172 Architectural Color Rendering Techniques: SLO #2 Use of Medium</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate and ability to illustrate architectural renderings with the following color mediums; color pencils, markers, water colors, pastels and various computer software.   |   | X  |    | 4  | 2  | 2   | 4  | 1 | 3  |
| <b>ARCH 172 Architectural Color Rendering Techniques: SLO #3 Composition of Color</b> Given lecture information, handouts and in-class discussion, students will be able to demonstrate and ability to mix colors to create Hue Schemes, (Monochromatic, Analogous, Complimentary, etc.) that will be the right colors for the building they are trying to illustrate.                           |   | X  |    | 4  | 2  | 2   | 3  | 1 | 3  |

