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| **California State University, Fresno**  **Lyles College of Engineering**  **Construction Management/Architectural Studies**  **Department/Program Assessment Coordinator: Michele Randel** |
| **Student Outcomes Assessment Plan (SOAP)** |
| Mission Statement |
| To educate in the principles of design and construction creating professionals that inspire the global community with innovative, sustainable, and collaborative interpretations of the built environment. |

## Institutional Learning Outcomes, Program Learning Outcomes/Goals, and SLO’s [a,b,c]

* 1. Institutional Learning Outcomes. Fresno State ILO’s are posted on the following webpage: <http://fresnostate.edu/academics/oie/assessment/fresno-state-assessment.html>
  2. Program Learning Outcomes (Also known as Goals) and related SLO’s

1. PLO A: **Communication and Design Representation** - Students will develop the ability to effectively communicate and collaborate architectural ideas, concepts, and solutions through written, oral, graphical, and digital media.
   1. SLO 1 - Create written, oral, and graphical presentations to express design concepts, solutions, and proposals.
   2. SLO 6 - Apply electronic-based technology to articulate the built environment.
2. PLO B: **Professional, Ethical, and Collaborative Practice** - Students will understand the professional standard of care in architecture and develop the ability to collaborate effectively and ethically in multidisciplinary teams.
   1. SLO 2 - Understand the impacts of ethics, fundamental business processes, and regulatory requirements on architectural practice.
   2. SLO 4 - Understand the basic materials and methods involved in the construction industry.
   3. SLO 5 - Understand the roles and responsibilities of participants in a multidisciplinary team.
   4. SLO 7 - Understand the regulatory requirements of health, safety, and welfare and how they influence the built environment.
3. PLO C: **Technical Knowledge and Integrated Building Systems -** Students will acquire and apply foundational knowledge of construction methods, materials, and multidisciplinary systems within the collaborative architectural design process.
   1. SLO 3 - Understand the basic principles of construction documents.
   2. SLO 4 - Understand the basic materials and methods involved in the construction industry.
   3. SLO 8 - Understand the basic principles of structural behavior.
   4. SLO 9 - Understand the basic principles of mechanical, electrical, and piping systems.
4. PLO D: **Contextual and Cultural Awareness** - Students will recognize the historical, cultural, and social contexts that shape the built environment and apply this knowledge to create responsive and meaningful designs.
   1. SLO 6 - Apply electronic-based technology to articulate the built environment.
   2. SLO 10 - Understanding the impact of historical, social, and cultural contexts on the built environment.

## Curriculum Map [d]: Courses in which SLO’s are addressed and evaluated

| Course | SLO 1 | SLO 2 | SLO 3 | SLO 4 | SLO 5 | SLO 6 | SLO 7 | SLO 8 | SLO 9 | SLO 10 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ARCH 17 |  |  |  | I |  |  |  |  |  |  |
| ARCH 20 |  |  | I |  |  |  |  |  |  |  |
| ARCH 33 |  |  |  |  |  |  |  |  |  | D |
| ARCH 50 |  |  |  |  |  |  | D |  |  |  |
| ARCH 105 |  |  |  |  |  |  |  | I |  |  |
| ARCH 132 | M |  |  |  |  |  |  |  |  |  |
| ARCH 138 |  |  |  |  |  | M |  |  |  |  |
| ARCH 140 |  |  |  |  |  |  |  |  | I |  |
| ARCH 178 |  | D |  |  |  |  |  |  |  |  |
| ARCH 180B |  |  |  |  | D |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

For courses in the major, using the abbreviations below, indicate which outcomes are introduced, which are developed, and which are mastered in that particular course.

| **I = Introduced** | **D = Developed** | **M=Mastered** |  |
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## SLO’s Mapped to Assessment Measures and Methods [e]

| Assessment Measure | Evaluation  Method | SLO 1 | SLO 2 | SLO 3 | SLO 4 | SLO 5 | SLO 6 | SLO 7 | SLO 8 | SLO 9 | SLO 10 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Final Project Presentation | Rubrics | X |  |  |  |  | X |  |  |  |  |
| Final Exam | Score |  | X | X | X |  |  | X |  | X | X |
| Survey | Criteria |  |  |  |  | X |  |  |  |  |  |
| Exam | Score |  |  |  |  |  |  |  | X |  |  |

## Assessment Measures: Description of Assignment and Method (rubric, criteria, etc.) used to evaluate the assignment [f]

* 1. Direct Measures (Department/Program must use a minimum of three different direct measures)

1. Final Exam in ARCH 140 is given to assess understanding of the basic principles of mechanical, electrical, and piping systems. Answer Keys with scoring is used for evaluation.

2. Final Presentation of research project in ARCH 138 to assess written, oral, and graphical presentations to express design concepts, solutions, and proposals. Rubric is used for evaluation.

3. Final Presentation of project in ARCH 132 to assess application of electronic-based technology to articulate the built environment. Rubric is used for evaluation.

* 1. Indirect Measures (Department/Program must use a minimum of one indirect measure)

1. Survey and reflection of team collaboration in ARCH 180B to assess the understanding of the roles and responsibilities of participants in a multidisciplinary team. Criteria is used for evaluation.

## Assessment Schedule/Timeline [g]

| Academic  Year | Measure | SLO 1 | SLO 2 | SLO 3 | SLO 4 | SLO 5 | SLO 6 | SLO 7 | SLO 8 | SLO 9 | SLO 10 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2023-2024 | Final Exam |  |  |  |  |  |  | X |  |  |  |
|  | Exam |  |  |  |  |  |  |  | X |  |  |
| 2024-2025 | Final Exam |  |  |  |  |  |  |  |  | X |  |
|  | Final Exam |  |  |  |  |  |  |  |  |  | X |
| 2025-2026 | Final Project Presentation | X |  |  |  |  |  |  |  |  |  |
|  | Final Exam |  | X |  |  |  |  |  |  |  |  |
| 2026-2027 | Final Exam |  |  | X |  |  |  |  |  |  |  |
|  | Final Exam |  |  |  | X |  |  |  |  |  |  |
| 2027-2028 | Final Exam |  |  |  |  | X |  |  |  |  |  |
|  | Quiz |  |  |  |  |  | X |  |  |  |  |
| 2028-2029 | Final Exam |  |  |  |  |  |  | X |  |  |  |
|  | Exam |  |  |  |  |  |  |  | X |  |  |

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| Closing the Loop [h,j,k] |
| **Fresno State Closing the Loop process is described immediately below.** |
| A major assessment report, which focuses on assessment activities carried out the previous academic year, is submitted in September of each academic year and evaluated by the Learning Assessment Team and Director of Assessment at Fresno State. |
| Program/Department Closing the Loop process: At this time all assessments have met the minimum standards. |