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Outcome Assessment Timeline

Academic Programs

Sustainable Energy Studies

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| **APR /SLO 4-Year Cycle** | **2022-2026** | | |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| **SES 101** | Analyze data obtained by smart meter and develop energy saving strategies. (SES 101; ISLO 5) | Fall 2022 | Spring 2023 |
| Identify natural and made-made environmental issues that affect climate change for local and world economies. (SES 101; ISLO 11) | Fall 2022 | Spring 2023 |
| Identify the technological skills and certifications required for careers in sustainability. (SES 101; ISLO 8) | Fall 2022 | Spring 2023 |
| Student will identify different areas of study in the field of sustainable practices. (SES 101; ISLO 3) | Fall 2022 | Spring 2023 |
| Apply energy codes and evaluate energy consumption of both existing and proposed construction using H.E.R.S rating system. (SES 101; ISLO 6) | Fall 2022 | Spring 2023 |
| **SES 102** | Calculate rate structures for utility providers. (SES 102; ISLO 6) | Fall 2022 | Spring 2023 |
| Conduct an appliance and lighting energy audit to determine energy usage. (SES 102; ISLO 13) | Fall 2022 | Spring 2023 |
| Differentiate the various electricity flow processes that exist between private, state, federal, and California Independent System Operators. (SES 102; ISLO 3) | Fall 2022 | Spring 2023 |
| **SES 105** | Analyze core content by writing brief checklists and one (1) 300 word essay. | Fall 2022 | Spring 2023 |
| Define and apply the basic green building code standards for a simple residential structure. | Fall 2022 | Spring 2023 |
| Define in writing the basic elements of a sustainable community. | Fall 2022 | Spring 2023 |
| **SES 110** | SES 110 SLO #1 The student will present the information they have acquired in report form and class discussion at class meetings. | Fall 2022 | Spring 2023 |
| SES 110 SLO #2 the student will evaluate each chapter that is assigned and provide a short written discussion on the subject covered in the text. | Fall 2022 | Spring 2023 |
| SES 110 SLO #3 student will collect data based on issued assignments and discussions in class and the text and solve them through analysis in written report form. | Fall 2022 | Spring 2023 |
| SES 110 SLO #4 the student will access the internet and library to identify a variety of resources that concern environmental issues the will enable him to respond to site conditions by written report and analysis. | Fall 2022 | Spring 2023 |
| SES 110 SLO #5 student will develop the necessary skills to use the existing technologies available to him to write, illustrate, discuss and demonstrate effectiveness in producing written reports and documents | Fall 2022 | Spring 2023 |
| SES 110 SLO #6 the student is to identify global environmental concerns that affect the local environment an present a written report that discusses those issues with regard to the community, nation, and world. | Fall 2022 | Spring 2023 |
| **SES 201** | SES 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. | Fall 2022 | Spring 2023 |
| SES 201 SLO #2 Student will, given a design problem, be able to develop BIM models while incorporating BIM best practices techniques using Revit Architecture. | Fall 2022 | Spring 2023 |
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|  | | | |  | **Measure/Collect Data** | **Discuss & Plan** |
| **Program** | **Program-Level Student Learning Outcome (PSLO)** |  |  |
| Sustainable Engergy Studies CA 2471 | 1.Student will demonstrate by written report how a home can be energy efficient with the natural and build environment. | 2022-2026 | Fall 2025 |
| 2.Student will convert text examples into hands on experience providing written documentation to substainate findings. | 2022-2026 | Fall 2025 |
| 3.Student will investigate and analysis a given problem and then provide a solution that fits a given set of criteria demonstrating his finding in a written report. | 2022-2026 | Fall 2025 |
| 4.Student will demonstrate knowledge of natural and man-made environmental issues that affect the global warming and world economy, analysis and assess those issues as they apply to the local and economic environment organized in a graphic and written report. | 2022-2026 | Fall 2025 |
| 5. Student will perform site analysis/reconnaisance, home energy audit and energy code complience to evaluate the energy efficiency of a given building, assessing the outcome of the study in comparision to given set data/criteria employing the use of a written and graphic report. | 2022-2026 | Fall 2025 |
| Sustainable Landscape Practices AS CTE 2612 | Graduates of this program will be able to perform a complete water audit and compile their results in a written format. | 2022-2026 | Fall 2025 |
| The graduate will be able to make recommendations for the programming and improvement of the irrigation system to save water and prevent water loss from the property. | 2022-2026 | Fall 2025 |
| When provided a set of landscape design drawing, the graduate of this program will analyze and recommend design, installation, and maintenance practices that are not only sustainable, but fall within the local codes of the City of Chula Vista. | 2022-2026 | Fall 2025 |