

Instructional Program Review Report

Sierra College, 2013-14

Department/Program Name: Construction and Energy Technologies (Formerly CTR)

Date Submitted: TBD

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Ideally, the writing of a Program Review Report should be a collaborative process of full-time and part time faculty as well as the appropriate educational administrator, instructional assistants, classified staff members and students who have an interest in the present and future vision of the program at all sites throughout the district. The Program Review Committee needs as much information as possible concerning the present and future of the program to assess and recommend the resources needed to keep the program viable and robust.

Please attach your Department Statistics Report (DSR) and your ePAR Report when sending in your Program Review.

1) Relevancy: This section assesses the program's significance to its students, the college, and the community.

1a) To provide context for the information that follows, describe the basic functions of your program.

The goal of the Sierra College Construction Department is to provide students with a comprehensive "real world" quality education as they prepare for careers and/or continuing education within the construction industry. During their construction/energy education at Sierra College, students develop, business, trade skills and a broad industry knowledge through classroom activities and construction lab projects. Developing these skills and abilities makes Sierra College construction students valuable as employees, operators of small businesses, transfer students to universities and members of the community.

1b) How does your program fit within the district mission, as quoted below?

"Sierra College provides a challenging and supportive learning environment for students having diverse goals, abilities, and needs interested in transfer, career and technical training, and lifelong learning. The College's programs and services encourage students to identify and to expand their potential. Sierra College students will develop the knowledge, skills and abilities to become engaged and contributing members of the community."

The Construction Energy Departments mission statement is aligned with the District's. Our programs and courses focus on transfer, career and technical training as well as community based learning as stated in the Sierra College mission statement.

1c) Program offerings align with which of the following mission categories (check all that apply):

- x Transfer x Career Technical Education
x Basic Skills x Personal Development/Enrichment x Lifelong Learning

1d) Please analyze the role of your department's programs and offerings in supporting the categories marked in 1c above; please provide evidence in support of this analysis. If any of the following apply to your program, please address them in your analysis.

- The number of degrees, certificates, and/or licenses your department has generated
 - The alignment of these awards with the district's mission and/or strategic goals. (See the district "Awards Data File, available from Research and Planning, for your numbers).
- Job placement or labor market information for your program's awards and licenses.
- The contribution your program makes to student transfer.
- Participation in basic skills programs.

1e) Optional Additional Data: Comment on any other relevance to district goals, mission, values, strategies, etc., that your program provides that are not incorporated in the answers above. Consider, for example, contributions to diversity, campus climate, cultural enrichment, community ties, partnerships and service, etc. Include specific data and examples.

We are in a unique position to provide hands on learning opportunities while helping the community. The Sierra College Construction Department, designed and installed a campus walkway, our department also demolished a substandard shed and built a new one in its place, which is being utilized by the school. We also have several other campus projects that are being considered. The department is being positioned to participate in community service projects with organizations such as Habitat for Humanity.

2) Currency: This category assesses the currency of program curricula as dictated by Title 5 and the currency of efforts in meeting accreditation standards as well as improving pedagogy and engaging in professional development.

2a) Curriculum: Considering the information provided on your Department Statistics Report (DSR), comment on the currency of your program's curricula. If your course currency is below 100%, describe why this is and your department's specific plans to remedy this problem. Please describe your process for evaluating and revising curriculum, including the use of SLOs.

We are currently in the process of merging construction and energy programs.

2b) Student Learning Outcomes Assessment: Comment on your program's progress in assessment of SLOs, analysis of results, and improvements/changes made to the program. Please provide specific data and analysis in the space provided.

We are currently in the process of assessing 100% of our programs as we merge construction and energy programs.

2c) Professional development: Describe how your department's planned activities and professional development efforts serve to improve teaching, learning and scholarship. Please be sure to include flex activities, departmental meetings and activities, conferences, and the like.

The department holds regular faculty meetings. We encourage all faculty to participate in industry related associations and events. As an example we have two faculty members that serve as committee members on the newly formed Construction Energy Sectors Initiative. Last year we had two instructors complete OSHA outreach "Train the Trainer" course, allowing the instructors to train and issue safety cards to students.

2d) Optional Additional Data: Enter additional data here that you believe to be an indicator of your program's effectiveness and explain why.

3) **Effectiveness**: This section assesses the effectiveness of the program in light of traditional measurements.

3a) Retention and Success: Identify and explain the trends in your program's data. Address separately the data for on ground and on-line course. Comment on the significance of the trends as well as the challenges experienced within the program. If you see a need to improve the statistical trends, outline a plan that will achieve the changes you are seeking. Please refer specifically to the data in your Department Statistics Report, as supplied by the Research and Planning Office, in supplying your answer.

Two long term faculty retirements and major economic downturn have created significant challenges for the department's retention and success. The merger with the Energy Department, hire of full-time faculty and improving housing market will improve the department's retention and success rates.

- 3b) Enrollment Trends: Identify and explain the enrollment trends in your program's data. Address separately the data for on ground, on-line, and enrollment at the various centers. Comment on the significance of the trends as well as the challenges experienced within the program. If you see a need to improve the statistical trends, outline a plan that will achieve the changes you are seeking. If applicable, comment on both the past performance and the future direction of the program as a whole as well as by location and mode of delivery. Please refer specifically to the data in your Department Statistics Report, as provided by the Research and Planning Office, in supplying your answer.

Enrollments in the Construction Technology Department traditionally follow the industry trends. Over the past 3 years the enrollment has been inconsistent, however the 2013 fall semester many of the classes were full with waiting lists, this is typical of the increased construction activity in our region.

- 3c) Productivity: Comment on how the program contributes to overall district productivity. Comment on the significance of the trends as well as the challenges experienced within the program. If you believe the statistical trends need improvement, outline a plan that will achieve the changes you are seeking.

Two long term faculty retirements and major economic downturn have created significant challenges for the department's overall productivity. The merger with the Energy Department (Construction Energy Technology), hire of full-time faculty and improving housing market will improve the department's overall productivity.

- 3d) Analysis and Planning: Referring to your ePAR Report of Goals, Strategies, Actions, and your assessment of SLOs, comment on how your program plans to maintain or increase its effectiveness and whether it has taken actions to do so.

The newly formed Construction Energy Technology Department will continue to focus on maintaining and further develop relationships with the business community. Across the department we will increase our involvement within the two industry sectors; construction and energy.

- 3e) Optional Additional Data: Enter additional data here that you believe to be an indicator of your program's effectiveness and explain why.

You may add additional data here if desired:

4) Resources: This category assesses the adequacy of current resources available to the program and describes and justifies the resources required to achieve planning goals by relating program needs to the assessments above. (Refer to the bottom row of your DSR in your response to this category. You may include budget information if you have it.)

4a) Please describe the future direction and goals of your program for the next three years in terms of sustaining or improving program effectiveness, relevance, and currency. Please include any analysis of relevant assessment data noted above.

4b) Equipment and Technology: Comment on the adequacy of the program's equipment and technology funding level for the District as well as specific sites. Include a projection of equipment and technology needs for the next three years as well as a justification for needs.

The Roseville Gateway program is in the process of moving to the Rocklin campus, we anticipate there will be needs and resources required for this move.

4c) Staffing: Comment on the adequacy of your program's faculty, classified, and student help staffing levels for the overall District as well as specific sites. Include a projection of staffing needs for the next three years and justification for any increases.

In the past 3 years we have had two long term full-time faculty retire, budget constraints have not allowed the department to refill the position. We have been approved for a new full time hire and are actively seeking candidates and hope to have this position filled by fall 2014.

4d) Facilities: Comment on the program's fill rate and the adequacy of the facilities for the District as well as specific sites. Include a projection of facility needs for the next three years as well as a justification for any increases.

Our facility needs will remain stable for the next three years.

5) Summary/Closing

5a) Evaluate the program's strengths, weaknesses, opportunities, and challenges.

The new Construction Energy Technology programs main strength will be the focus on industry needs. Our new degrees and certificates will position Sierra College students to develop knowledge, skills and abilities that contribute to the workforce. One of the weaknesses in the Residential Construction Technology was the lack of awarded certificates and degrees, while this is a weakness of the current Construction Department it has been a strength for the Energy Department. Consistent enrollment has also been a weakness. Combining both programs will create opportunities to increase both awarded certificates and enrollments.

5b) Please provide any other information the Program Review Committee should consider that was not expressed in questions above.

5c) How has the author of this report integrated the views and perspectives of those who have interests in the future of this program, e.g. full time and part time faculty, educational administrators, instructional assistants, classified staff, and students at Rocklin, Roseville Gateway, NCC and/or Tahoe Truckee?

The entire department including the faculty of the Energy Department were engaged in the program review. Feedback was collected from part-time faculty and the BAAPE Dean was consulted. The Rocklin Residential Construction Department and Energy Department dialogued and collaborated on the review process-exchanged and shared information to produce this final document.