



Program Name: Energy Management

Lead Faculty: Roger Ebbage

School: Lane Community College, Eugene, OR

Delivery Mode(s) for Introduction to Energy Management Course (i.e. face-to-face, online, hybrid, etc): Online

Course Duration (semester, trimester, quarter, short-course, etc): Quarter

of Credits for the Introduction to Energy Management course:3

Program Name: Energy Management Program / Building Controls Systems Option

When did the program start? 1980-1988 and 1992-present

What geographic area(s) do your students come from? Mainly the Pacific Northwest and Northern California.

Number of Students in Program: We are experiencing a very low enrollment period because the unemployment in our region is very low. We did not start a cohort of new students in 2017-18.

Demographics: Percentage distribution

Gender

Male: 90

Female: 10

Ethnicity:

Caucasian - 90

African American – 10

Hispanic –

Other –

What percentage if known - Veterans: Unknown

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Degree(s)/ Diplomas(s) / Certificate(s) Offered: 2-year Degrees - Energy Management, Energy Management with a Building Controls Option, Water Conservation. Certificates - Energy Management

How many Faculty teach energy courses at your college (note if FT or PT)? The Energy Management program consistently has 4 adjunct faculty and until July 1, 2018, along with 1 full time faculty. This year, the college has transitioned to a change in delivery mode (explained below), and the number of adjunct faculty will grow to seven.

Description of Your Facilities (be sure to note any special lab facilities used for hands-on training): Five years ago Lane Community College completed construction of a 90k Sq.Ft LEED Platinum downtown Eugene campus. The Energy Management program was asked to assist with the design and to move in when construction was completed. Knowing that the program would be relocating from the Lane main campus to the school's downtown campus, the Energy Program design team recommended that the design consist of training aides built into the building to use for classroom instruction. The program has complete access to all of the energy using systems in the building including the building automation system, which allows the faculty to use the building as a "Living Lab". The college benefits from this strategy because class systems analytical projects (lighting, HVAC, controls) are delivered to the college facilities division for needed remediation if operation issues are found, (operation issues are always found). Before moving to the downtown campus, the faculty would use main campus buildings and the central plant as a "living lab", again, reporting operational issues when found.

Have you conducted a job market assessment? If yes, what were the findings? We have not conducted a formal assessment. However, we are tightly connected to our industry and therefore, have a good grasp of the labor market in the northwest.

What do you think makes your program successful? There are many reasons for our success. The program hires very talented, caring faculty. The goal is to develop a strong student understanding of the technical components that contribute to a successful energy analyst and combine that with work-related information like professional protocol and the soft skills that are not always a part of a student's character. The program focus is on student success so the program goes to great lengths to insure students have the best opportunity for completing the program and gaining employment. A small example of our commitment to students is our Student Support Fund. If a student comes to the program with financial issues like a utility bill or apartment rent that they can't pay, the Student Support Fund will cover the cost so the student does not need to drop a class or the entire program for financial reasons.

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Small considerations like the above example are the reasons why the Energy Management sees great success.

What are your industry ties? (If you have an industry advisory board, please describe its size and composition). The Energy Management program has an Industry Advisory Committee consisting of 9 professionals working in the college service area. The make-up is varied within the energy efficiency industry including residential, commercial building analysts, utility employees, City Resource Conservation Management, etc. Advisory committee members must make a three-year commitment.

Do you offer internships? What is your placement rate? Every Career / Technical Education program at Lane Community College offers a student internship opportunity. The Energy program requires 6 credit hours (translating to 216 work-place hours) for each student to be awarded the degree. Students may do two internships of 3 credits each to “test drive” a sector of the industry that is appealing. Our employment placement rate is 80+ %.

Is there any additional information about your program and or school you would like to include (any recent awards, publications, grant awards that pertain to your program etc.)?

The Energy Program has obtained a National Science Foundation Advanced Technology (NSF ATE) grant to put the entire program fully online. The program staff developed a strategy to offer a fully online program that includes valuable hands-on class activities (the gold standard for career / technical education programs), without requiring students travel to Lane Community College. The program is working with public utility managers and engineers throughout the Northwest and Northern California to provide Field-Work Mentors who are supervising the class assigned hands-on activities with the cooperation of the electric utility.

Program Link: <https://www.lanecc.edu/sustainability/energy-management-program>

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Picture of Facilities



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