

## 2018-2019 Energy Management and Building Science Certificate and Degree

### Certificate of Achievement:

<b>ES 4- Energy, the Environment and Society<sup>1</sup></b>	<b>4 Units</b>
ES 58- Introduction to Green Building	1 Unit
ES 64- California's Approach to Global Warming/Climate Change	2 Units
ES 69- Energy Management within Your Organization	1 Unit
ES 70- Introduction to Energy	1 Unit
ES 71- Introduction to Sustainable Buildings	1 Unit
ES 76- Energy Star Products	1 Unit
ES 78- Introduction to Energy Management Systems and Controls	1 Unit
ES 79- Renewable and Alternative Energy	1 Unit
ES 81- LEED/ Sustainable Building Codes	2 Units
ES 82- Project Management/Report Writing for Energy Professionals	2 Units
ES 83- Energy Management Return on Investment (ROI)	2 Units
<b>Total</b>	<b>19 Units (12 Courses)</b>

### Certificate of Achievement Advanced

<b>ES 51A- Sustainable Energy Systems (Prerequisite- ES 70)<sup>2</sup></b>	<b>4 Units</b>
<b>ES 51B- Energy Efficient Buildings (Prerequisite- ES 71)<sup>3</sup></b>	<b>3 Units</b>
<b>ES 51C- Building Automation Systems (Prerequisite- ES 78)<sup>4</sup></b>	<b>2 Units</b>
ES 69A- Introduction to Facilities Management	3 Units
ES 76A- Solar Thermal Systems	1 Unit
<b>Total</b>	<b>13 Units (5 Courses)</b>
<b>Total COA and COA-A</b>	<b>32 Units (17 Courses)</b>

### Associate in Science Degree (Select 18 Units)

CIS 3- Business Information Systems	4.5 Units
CIS 79- Managing Technology Projects	4.5 Units
ES 1- Introduction to Environmental Studies	4 Units
ES 50- Introduction to Environmental Resource Management/ Pol Prev	3 Units
ES 61B- Env. Resource Management: Energy, Chemicals and Waste	4 Units
ES 62C- Env. Management Tools- Env Site Assessments	4 Units
ES 62D-Env. Management Tools- Industrial Ecology/ Sustainable Design	4 Units
ES 66- Environmental Leadership	1 Unit
ES 84- Residential Solar Design and Installation	1 Unit
ES 95- Environmental Careers	1 Unit
ESCI 1 Environmental Science	4 Units
MATH 114- College Math Prep Level 3: Intermediate Algebra	5 Units
MET 10- Weather and Climate Processes	5 Units
PHYS 10- Concepts of Physics	5 Units