ENVIRONMENTAL AND ENERGY TECHNOLOGIES - ASSOCIATE OF APPLIED SCIENCE

(67 credits)

NOTE: Students must achieve at least a cumulative grade-point average of 2.0 with a final grade of C or better in ENGL 111G Rhetoric and Composition and all required TCEN courses.

Core Requirements

ENGL 111G Rhetoric and Composition 1 4
Select one from the following: 3
- ENGL 203G Business and Professional Communication 1
- ENGL 218G Technical and Scientific Communication 1
OECS 215 Spreadsheet Applications 3
COMM 253G Public Speaking 1
or COMM 265G Principles of Human Communication
MATH 121G College Algebra 1 3
PHYS 110G The Great Ideas of Physics 1 4
or PHYS 211G General Physics I
Select one from the following: 4
- CHEM 110G Principles and Applications of Chemistry 1
- CHEM 111G General Chemistry I 1
- AGRO 100G Introductory Plant Science 1
- E S 110G Introductory Environmental Science 1

Related Requirements

Select 3 credits from the following: 3
- C S 110 Computer Literacy 1
- OECS 105 Introduction to Information Technology
- OECS 215 Spreadsheet Applications
- TCEN 101 Energy for the Next Generation 3
- OETS 102 Career Readiness Certification Preparation 1

Technical Requirements

Solar and Energy Conservation or Alternative Fuels Option 39

Total Credits 67

1 Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus. The remaining courses are applicable toward the bachelor of applied studies degree offered by the NMSU College of Extended Learning.

Solar and Energy Conservation Option

Technical Requirements

BCT 101 Introduction to Construction I 2
BCT 102 Introduction to Construction II 2
BCT 217 Building and the Environment 3

Electives

Select 3-4 credits from the following: 3-4
- DRFT 151 Construction Principles and Print Reading
- MAT 102 Print Reading for Industry
- BCT 110 Blueprint Reading for Building Trades
- ELT 105 Basic Electricity and Electronics 3
- TCEN 105 Building Analyst I 3
- TCEN 106 Building Analyst II 3
- TCEN 110 Photovoltaic Application 4
- TCEN 156 Building Envelope 3
- TCEN 205 NEC for Alternative Energy 4

Total Credits 52

Alternative Fuels Option

Technical Requirements

MAT 108 Metrology, Safety and Quality Control for Manufacturing 3
MAT 235 Programmable Logic Controllers Pneumatics 2
TCEN 130 Introduction to Biomass/Biogas 3
TCEN 140 Biofuel Science 3
TCEN 180 Bio-diesel and Bio-ethanol Production 4
TCEN 215 Fluid Thermal Systems 4
TCEN 220 Cooperative Experience 1-3
or TCEN 224 Field Experience
TCEN 240 Renewables and Sustainability 3

Electives

Select 14–15 credits from the following or from the Solar and Energy Conservation Option Technical Requirements: 14-15
- BMGT 140 Principles of Supervision I
- DRFT 109 Computer Drafting Fundamentals
- HVAC 103 Electrical and Mechanical Controls I
- TCEN 210 Solar Thermal

Total Credits 37-40