

Liberal Arts Option:

Renewable Energy / Energy Efficiency (LRE)

(Designated Mass Transfer Program — pending approval)

THE DEGREE: Associate of Arts in Liberal Arts

THE PROGRAM OPTION: provides students with the knowledge and skills needed for entry-level employment opportunities in the renewable energy / energy efficiency field; provides students already employed in the trades with knowledge and skills relevant to specific renewable energy / energy efficiency technologies, as well as broader understanding of the scientific, economic and political context of the industry; provides students with a general education background combined with a comprehensive introduction to renewable energy / energy efficiency and technical and general electives with course work geared toward transfer requirements for a four-year baccalaureate degree program.

YOUR NEXT STEP: take appropriate industry exams based on your course work. Find employment in the renewable energy / energy efficiency field, e.g. green building, energy auditing and/or solar. Continue academic studies in a four-year baccalaureate degree program.

REQUIRED COURSES	CREDITS
BIO 120 Introduction to Environmental Science.....	4
Business/Computer Information Systems: Any course coded BUS or CIS ^①	3
English Composition I (ENG 101, 103, or 105)	3
English Composition II (ENG 112, 114, or 116)	3
HEC 101 Human Ecology.....	3
Math: MAT Course with NC Advising Code ^②	3-4
Personal Communication Skills (PCS 101 or 121 or 131 or 141)	3
SCI 120 Introduction to Sustainable Energy: Theory and Practice	4
SCI 126 Residential Energy Efficiency and Energy Auditing.....	3
Behavioral Science Core.....	6
<i>a) One three credit course from the following: ANT 103, ANT 104, ECO 101, ECO 102, POL 101, PSY 101, or SOC 101</i>	
<i>b) Select any additional course coded BC</i>	
Humanities Core:	9
One three credit course from each of the following categories:	
<i>a) History: any HIS course coded HC</i>	
<i>b) Literature: any 200 level ENG course EXCEPT ENG 207 and ENG 208</i>	
<i>c) A Humanities course with an HC advising code in: AHS, ASL, DAN, ENG, FLK, FRE, GGY, HIS, HUM, LAT, MUS, PHI, SPA, THE</i>	
Science Electives.....	12
General Electives	4-7
TOTAL 60 - 63	

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SCIENCE ELECTIVES^③

SCI 110 Sustainable Energy Fundamentals	1
SCI 112 Fundamentals of Electricity	3
SCI 114 Residential Construction Fundamentals	3
SCI 119 Introduction to Global Warming	1
SCI 121 Introduction to Photovoltaic (Solar Electric) Technology	3
SCI 122 Solar Domestic Hot Water	1
SCI 123 Passive Solar Technology	1
SCI 124 Energy Efficiency and Conservation	1
SCI 127 Introduction to Sustainable Design and Green Building	3
SCI 128 Solar Thermal Systems	3
SCI 129 Fundamentals of Wind Energy	3
SCI 130 Extreme Insulation Retrofits	3
SCI 221 Photovoltaic (Solar Electric) Installation	3
SCI 227 Sustainable Design and Green Building Practices	3
SCI 293/294 Internship in Renewable Energy ^④	1-6

GENERAL ELECTIVES^③

ACC 151 Concepts of Financial Accounting or ACC 121 Principles of Financial Accounting	3-4
Business: Any course coded BUS ^①	3
CHE 111/CHE 112 General Chemistry	4
Computer Information Systems: Any course coded CIS ^①	1-7
ECO 113 Environmental Economics	3
EGR 105 Introduction to Engineering	4
EGR 107 Engineering Graphics	4
HEC 155 Introduction to Sustainable Energy: Solar Living	1
HEC 201 Strategies for a Sustainable Future	3
MAT 105 Introductory Algebra Or MAT 106 Intermediate Algebra	3
Math: Any other Math with NC advising code with the exception of MAT 116	3-4
PHY 101/111/102/112 Physics	4
Any course from Science Electives listing (not counted elsewhere)	1-3

- ① Business or Computer Information Systems course to be chosen after consultation with faculty advisor and in consideration of the requirements of the transfer institution or student's professional goals.
- ② Math courses to be chosen after consultation with faculty advisor and in consideration of the requirements of the transfer institution or student's professional goals. Math 107 recommended.
- ③ All electives should be chosen in consultation with the student's faculty advisor.
- ④ Up to three credits of internships may be taken as a SCI elective and up to six as any additional elective in consultation with faculty advisor. No more than six credits of internships may count toward this degree.

PROGRAM OPTION ADVISOR

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