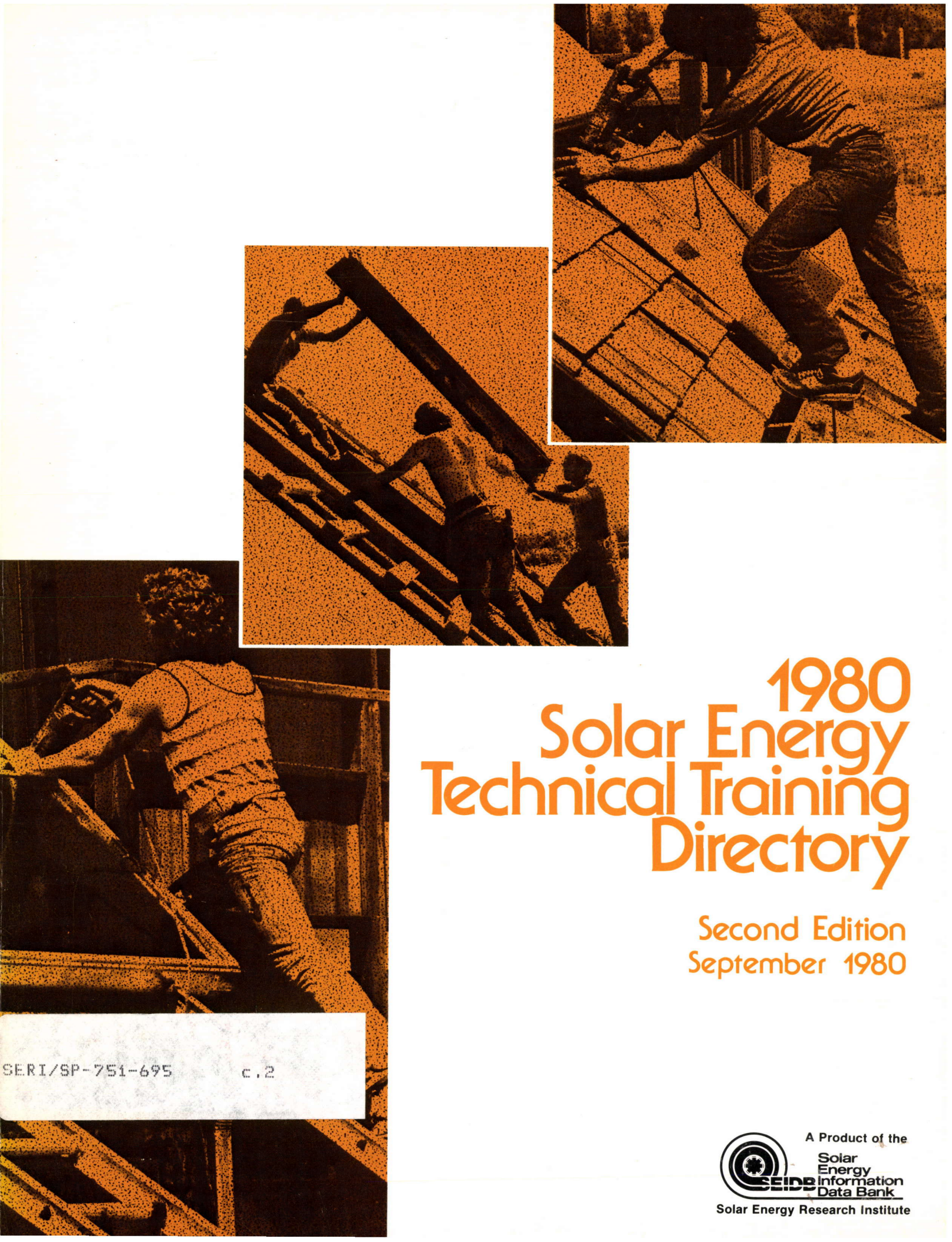

1980 Solar Energy Technical Training Directory

Second Edition
September 1980

SERI/SP-751-695 c.2

A Product of the
Solar Energy Information Data Bank
Solar Energy Research Institute

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Front Cover: Photographs provided by SERI and the Solar Energy Applications Laboratory of Colorado State University. We wish to thank Hyperion Solar Energy Specialists and the Solar Hot Water Company for their assistance.

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SOLAR ENERGY RESEARCH INSTITUTE
Solar Energy Information Center

JUN 14 1983

GOLDEN, COLORADO 80401

1980 Solar Energy Technical Training Directory

Second Edition
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SERI/SP-751-695

Prepared by the
Academic and University Programs Branch
and the Information Systems Division, SERI,
in cooperation with the
Office of U.S. Congressman George E. Brown, Jr.
and the Congressional Solar Coalition.

A Product of the
Solar Energy Information Data Bank

Managed by the
Solar Energy Research Institute
1617 Cole Boulevard, Golden, Colorado 80401

Operated for the U.S. Department of Energy by the Midwest Research Institute.

Acknowledgements

The *1980 Solar Energy Technical Training Directory, Second Edition* is based on information gathered from a nationwide survey of post-secondary educational institutions, begun in June, 1978 and updated during 1979*. This survey was conducted by the Office of U.S. Congressman George E. Brown, Jr. in cooperation with the Congressional Solar Coalition.

Survey data was processed and maintained by the Academic and University Programs Branch, and the Information Systems Division of the Solar Energy Research Institute (SERI). This information was used to create the Educational Data Base, one of many computerized data bases comprising the Solar Energy Information Data Bank (SEIDB).

The Solar Energy Information Data Bank is a national network created by Congress** to gather and disseminate information on the developing solar energy technologies.

* A listing of all solar educational programs and courses included in the survey data can be found in the *1980 National Solar Energy Education Directory, Second Edition.* See page v for ordering information.

** Solar Energy Research, Development, and Demonstration Act (1974)

Gift 6/14/83

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Introduction

What is solar energy technical training? We defined this to include all programs or courses offered by post-secondary educational institutions that lead to a degree or substantial training skill in a solar or solar-related field.* Technical skills range from design and installation to the maintenance of solar energy systems or components.

How were programs selected? This directory lists all schools which offer a technical degree—usually a certificate, associate, or equivalent—in a solar or solar energy-related area. In most cases, the institutions offering these programs consisted of vocational/technical schools and junior or community colleges.

How current is the data? All schools listed in the 1980 Directory have responded at least once in the last two years to the national solar education survey. Data which is over one year-old is marked with an asterisk (*) after the course or program listing.

In all, the *1980 Solar Energy Technical Training Directory* contains information from over 150 schools.

How to Use this Directory. All schools are listed alphabetically by state. Please note that the amount of information contained in each listing will vary depending on the completeness of the school's survey response. To help you locate solar technical training opportunities that will best suit your needs, we have classified the listings as follows:

Solar Energy or Solar-Related Programs include course sequences which lead to a certificate or degree. Program categories include:

* *Solar Curriculum:* programs offering an academic degree or diploma in a specific solar energy field.
* *Curriculum with Solar Study:* programs in which the student receives solar education while working on an academic degree or diploma in a solar-related field.
* *Solar Technical Training:* programs offering non-academic degrees or certificates in a solar energy or solar-related field.

Solar Energy or Solar-Related Courses include lectures, workshops, seminars, research projects, on-the-job training, and other activities. Where information was available, we have listed the course C.E.U.'s (Continuing Education Units), defined as the number of credits granted to students enrolled in non-degree courses.

*Solar energy includes the following technologies: Active and Passive Space Heating and Cooling, Domestic Hot Water, Biomass (includes Alcohol Fuel Production), Ocean Energy Systems, Photoconversion and Thermoconversion Processes, Photovoltaic Systems, Process Heat, Solar Thermal Power and Wind Energy Systems.

Sample Listings

Institution — **MARICOPA TECHNICAL COMMUNITY COLLEGE**

Address & Phone — 106 East Washington Street
Phoenix, AZ 85004
(602)258-7251 (008303) Survey ID Number

Tuition Information — **Tuition (Full Time):**
Resident: $50.00 Non Resident: $870.00

Program Category — **Solar Technical Training**

Solar Technology — Program Title

Program Information

Degree: Associate, Certificate
Industrial Technology
Department: Refrigeration
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Categories are:
Solar Curriculum,
Curriculum with Solar Study,
and Solar Technical Training.

Program Titles
followed by an asterisk
were not updated during
the most recent survey.

Course Category — **Solar Related Courses**

Solar Energy Technology — Course Title

Course Information

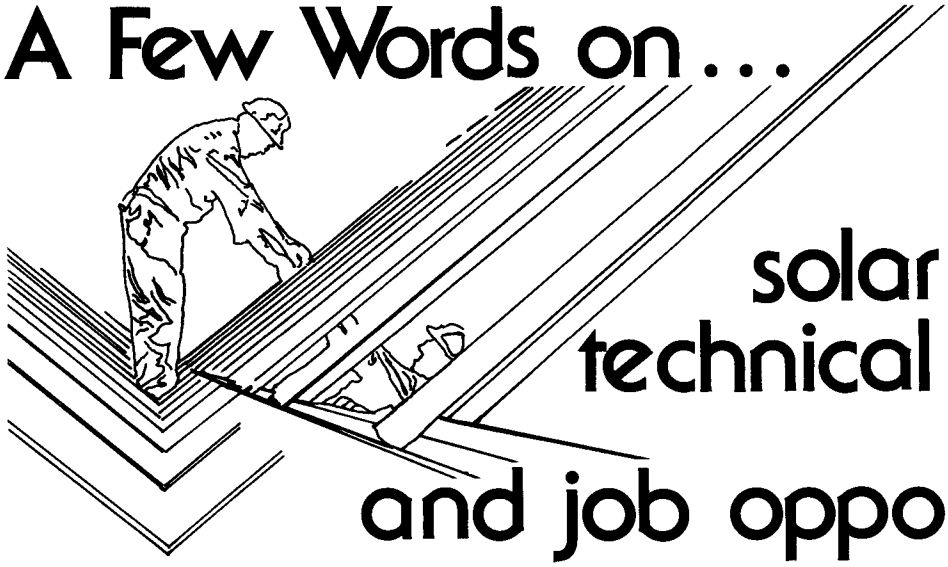
Instructor: Palmer, John
(602)723-4141 EXT.254
Department: Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Job: 48.0
Offered: Weekend
Course Fee: Resident: $21.00
Non Resident: $21.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Materials; Photoconversion; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Categories are:
Program & Curriculum-Related
Courses, and Solar-Related
Courses.

Course Titles
followed by an asterisk
were not updated during
the most recent survey.

This directory includes solar technical training programs and courses drawn from the *1980 National Solar Energy Education Directory*, a complete guide to all solar educational opportunities across the nation. Copies of the National Directory may be ordered from: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock #061-000-00368-1. Price $5.50.

A Few Words on...



solar energy technical training and job opportunities

Prospects for future jobs and careers in solar and solar-energy-related fields look promising. Although the industry is still struggling in its infancy, most experts agree that, with proper tax incentives for both the industry and consumer, the solar field will blossom. However, if the solar industry is to gain public confidence, it is necessary that a well-trained workforce be available, capable of properly installing and maintaining a variety of solar applications.

A great variety of jobs and skills will be required if America is to meet its goal of obtaining 20% of its energy from solar and other renewable sources by the year 2000. According to the President's 1978 Domestic Policy Review, between 150-200,000 solar and solar-related jobs could be created annually through the end of the century.

Jobs & Training

Where will you find solar jobs? In the beginning, most of them will be in domestic hot water and space heating, in both active and passive applications. However, the number of jobs available in the passive area will depend on how well home builders accept this new construction technique. In the long run, it is likely that jobs will open up as wind energy systems, photovoltaic (solar cell) applications, solar thermal electric power, space cooling and other solar applications become commercial.

Though most of the solar energy technologies are still new, the skills they will require are traditional ones, such as plumbing, carpentry, electrical masonry, and sheet metal, to name a few. Skilled technicians will be needed to design, fabricate, install, maintain, and wholesale these systems.

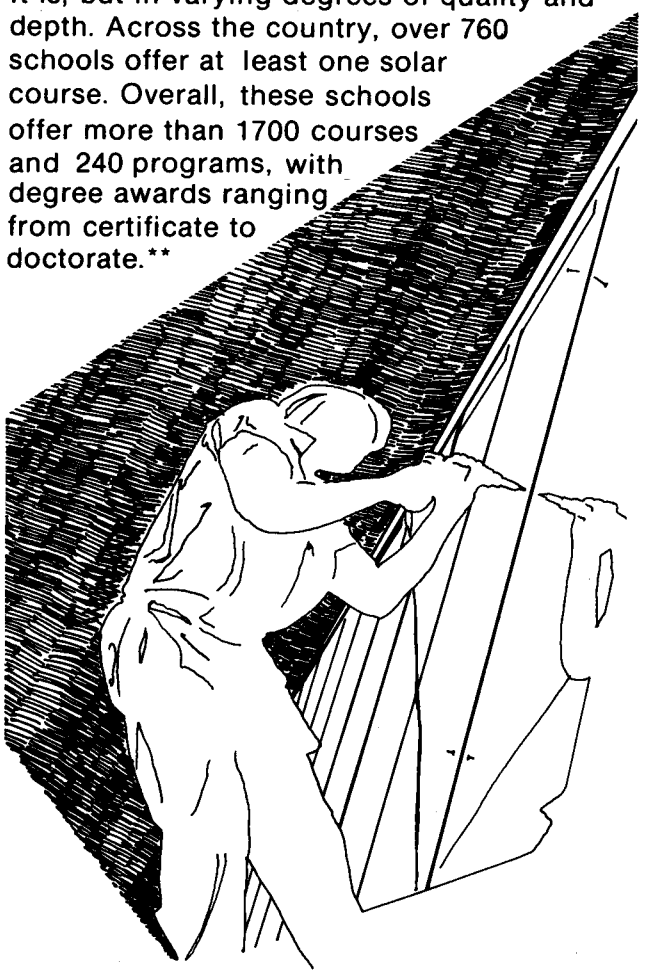
What kind of solar education should you be seeking? Unfortunately, firm counseling in this area is not possible—but some general cautions and recommendations can be made. For instance, while the installation of solar hot water and space heating systems won't require any basic new skills, most people will need additional solar knowledge if they are to install these systems properly. Therefore, it is recommended that you pursue major training in a traditional building trade area with a solar emphasis.

Solar Skills to be in demand

Will a trained solar installer be more employable than a plumber or sheet metal worker who has been updated in the solar field? At this time, the answer is uncertain. However, the upcoming mandatory offering of energy conservation and solar audits as part of the *Residential Conservation Service** will, no doubt, create a demand for skilled technicians knowledgeable in the solar field. This, coupled with the 40% federal solar tax credit and additional incentives now available in many states, and of course, rising energy prices, will help create the pressure to make the industry boom.

Is Solar Education Available?

It is, but in varying degrees of quality and depth. Across the country, over 760 schools offer at least one solar course. Overall, these schools offer more than 1700 courses and 240 programs, with degree awards ranging from certificate to doctorate.**



When pursuing solar energy technical training, you should talk to both faculty and students involved in the course or program you are considering, before you enroll. Also, try to contact local solar companies (see the yellow pages of the phone directory) to find out what skills they require and whether it is likely they will need more people.

Hopefully, the *1980 Solar Energy Technical Training Directory* will help point you in the right direction and provide you some guidance and caution in your pursuit of a solar education.

* The *National Energy Conservation Policy Act* (1978) requires public utilities to offer this service to consumers by January, 1981.

** A complete listing of all solar educational offerings may be found in the *1980 National Solar Energy Education Directory, Second Edition.* See page v.

Please help us keep the *Solar Energy Technical Training Directory* up-to-date. Revisions or additions to be included in future editions may be sent to:

Academic and University Programs Branch
Solar Energy Research Institute
1617 Cole Boulevard
Golden, Colorado 80401

Attn: Education Data Base

Important! When forwarding us new information, please include your school's survey identification number, listed in parentheses on the right of its directory listing.

Alabama

BESSEMER STATE TECHNICAL COLLEGE

P O Box 308
Bessemer, AL 35020
(205)428-6391 (060007)

Tuition (Full Time):
Resident: $78.00

Solar Related Courses

Special Systems

Instructor: Knight, Andy (205)428-6391 EXT.54
Department: Air Conditioning and Refrigeration
Student Level: Skilled Labor
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 16.0; Hrs. per week: 15.0
Contact Hours: 250.0
Classroom: 125.0
Independent Study: 75.0
Lab: 75.0
Offered: Evening
Course Fee: Resident: $40.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Heat and Energy Transfer; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

CARVER STATE TECHNICAL COLLEGE

414 Stanton Street
Mobile, AL 36617
(205)473-8692 (060015)

Tuition (Full Time):
Resident: $75.00 Non Resident: $150.00

Solar Technical Training

Plumbing and Pipefitting - Solar Specialization

Degree: Certificate Vocational-Technical
Department: Plumbing and Pipefitting
Contact: Lortie, John W. (205)473-8692 EXT.22
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization

Program and Curriculum Related Courses

Solar Technology Industrial Operator

Instructor: Lortie, John W. (205)473-8692 EXT.22
Department: Plumbing and Pipefitting
Program: Plumbing and Pipefitting - Solar Specialization
Student Level: Skilled Labor
Duration: No. of weeks: 24.0; Hrs. per week: 6.0
Contact Hours: 144.0
Offered: Day
Course Fee: Resident: $75.00; Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Arizona

CENTRAL ARIZONA COLLEGE

Woodruff at Overfield Road
Coolidge, AZ 85228
(602)723-4141 (007283)

Tuition (Full Time):
Resident: $96.00 Non Resident: $936.00

Solar Related Courses

Solar Energy Technology

Instructor: Palmer, John (602)723-4141 EXT.254
Department: Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Job: 48.0
Offered: Weekend
Course Fee: Resident: $21.00; Non Resident: $21.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Materials; Photoconversion; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

MARICOPA TECHNICAL COMMUNITY COLLEGE

106 East Washington Street
Phoenix, AZ 85004
(602)258-7251 (008303)

Tuition (Full Time):
Resident: $50.00 Non Resident: $870.00

Solar Technical Training

Solar Technology

Degree: Associate, Certificate Industrial Technology
Department: Refrigeration
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar I, Introduction to Solar Energy

Course Number: RF 119
Instructor: Carrico, Keith E. (602)275-8500 EXT.445
Department: Refrigeration
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0

Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Solar II, Solar Systems Installation Procedures
Course Number: RF-120
Instructor: Carrico, Keith E.
(602)275-8500 EXT.445
Department: Refrigeration
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar III, Solar Technician Troubleshooting and Evaluation
Course Number: RF-220
Instructor: Carrico, Keith E.
(602)275-8500 EXT.445
Department: Refrigeration
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

MOUNTAIN STATES TECHNICAL INSTITUTE

6616 West State Avenue
Glendale, AZ 85301
(602)247-6512 (060037)

Tuition (Full Time):

Resident: $2,695.00

Solar Technical Training

Air Conditioning, Refrigeration, Heating, Solar Energy, and Sheet Metal
Degree: Certificate
Contact: Hamill, Daniel
(602)247-6512
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Air Conditioning, Refrigeration, Heating, Solar Energy, and Sheet Metal
Program: Air Conditioning, Refrigeration, Heating, Solar Energy, and Sheet Metal
Student Level: Skilled Labor; Professional
Contact Hours: 60.0
Offered: Day
Topics Covered Extensively: Introduction to Solar Energy

UNIVERSAL TECHNICAL INSTITUTE

3121 West Weldon Avenue
Phoenix, AZ 85017
(602)264-4164 (060051)

Tuition (Full Time):

Resident: $3,465.00 Non Resident: $3,465.00

Solar Technical Training

Refrigeration, Air Conditioning, Heating, and Solar Energy
Degree: Certificate
Commercial Refrig., Air Cond., Heating and Solar Systems
Department: Refrigeration
Contact: Gregoire, Joseph
(602)264-4164 EXT.34
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Refrigeration, Air Conditioning, Heating, and Solar Energy
Course Number: 401
Instructor: Gregoire, Joseph
(602)264-4164 EXT.34
Hering, Paul
Department: Refrigeration
Program: Refrigeration, Air Conditioning, Heating, and Solar Energy
Student Level: Skilled Labor
Duration: No. of weeks: 33.0
Hrs. per week: 30.0
Contact Hours: 990.0
Classroom: 396.0
Workshop: 495.0
Lab: 99.0
Offered: Day; Evening
Course Fee: Resident: $3,465.00
Non Resident: $3,465.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

YAVAPAI COLLEGE

Prescott, AZ 86301
(602)445-7300 (001079)

Solar Curriculum

Solar Energy Technology *
Department: Science and Industrial Technology
Contact: Minkler, L.
Beverly, G.
Strom, L.
(602)445-7300
Program Training: Do-It-Yourself/Home Installation; Solar System Installation-Residential

Program and Curriculum Related Courses

Here Comes the Sun *
Course Number: PAS 100
Instructor: Minkler, Lyle
(602)445-5264
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/ Economic Analysis; Solar Systems Design

Methane, Wind-Electricity, Wood-Alternate Energy *
Course Number: PHS 109
Instructor: Beverly, Gary
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Distributed Solar Power Systems

Solar Cookers *
Course Number: PHS 105
Instructor: Minkler, Lyle
(602)445-5264
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Solar Systems Design

Solar Greenhouse *
Course Number: PHS 107
Instructor: Beverly, Gary
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Systems Design; Solar Heating

Solar Heating, Air and Water Systems *
Course Number: PHS 101
Instructor: Minkler, Lyle
(602)445-5264
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Solar Systems Design

Solar Heating, Passive and Hybrid Systems *
Course Number: PHS 102
Instructor: Frerking, Mike
Department: Science

Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Heating, Retrofit Systems *

Course Number: PHS 104
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Hot Water *

Course Number: PHS 103
Instructor: Beverly, Gary
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Solar Domestic Hot Water; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Laboratory 121 *

Course Number: PHS 121
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 6.0
Hrs. per week: 4.5
Contact Hours: 27.0
Classroom: 6.0
Lab: 21.0
Topics Covered Extensively: Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Laboratory 122 *

Course Number: PHS 122
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 6.0
Hrs. per week: 4.5
Contact Hours: 27.0
Classroom: 6.0
Independent Study: 21.0
Topics Covered Extensively: Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Laboratory 123 *

Course Number: PHS 123
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 6.0
Hrs. per week: 4.5
Contact Hours: 27.0
Classroom: 6.0
Lab: 21.0
Topics Covered Extensively: Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Laboratory 124 *

Course Number: PHS 124
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 6.0
Hrs. per week: 4.5
Contact Hours: 27.0
Classroom: 6.0
Lab: 21.0
Topics Covered Extensively: Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Laboratory 125 *

Course Number: PHS 125
Instructor: Minkler, Lyle
(602)445-7300
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 6.0
Hrs. per week: 4.5
Contact Hours: 27.0
Classroom: 6.0
Lab: 21.0
Topics Covered Extensively: Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Arkansas

MISSISSIPPI COUNTY COMMUNITY COLLEGE

P O Box 1109
Blytheville, AR 72315
(501)762-1020 (012860)

Solar Curriculum

Solar Technology

Degree: Associate
Solar Energy Technology, Photovoltaics
Department: Applied Science
Contact: Benson, Christopher M.
(501)762-1020 EXT.74
Program Training: Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Cooperative Education

Course Number: SOLR 5897
Program: Solar Technology
Academic Credits: 3.0 (Semester)
Topics Covered Extensively: Photovoltaics and Solar Cells

Electronics, Instrumentation, and Electrical Storage

Course Number: 587
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Skilled Labor
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $12.00
Non Resident: $23.00
Topics Covered Extensively: Energy Storage Systems

Heating and Air Conditioning Fundamentals

Course Number: SOLR 58002
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $36.00
Non Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Cooling; Solar Heating

Solar Technology I

Course Number: SOLR 58003
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Skilled Labor

Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $36.00
Non Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Technology II
Course Number: SOLR 58203
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $36.00
Non Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Energy Storage Systems; Photovoltaics and Solar Cells; Heat and Energy Transfer

Solar Technology III
Course Number: SOLR 58403
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $36.00
Non Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems; Hybrid Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Energy Policy Development; Solar Systems Design

Solar Technology Lab I
Course Number: 58001
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $12.00
Non Resident: $23.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

Solar Technology Lab II
Course Number: 58201
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $12.00
Non Resident: $23.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Materials; Photovoltaics and Solar Cells

Solar Technology Lab III
Course Number: 58401
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $12.00
Non Resident: $23.00
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Heating; Solar Systems Design

Survey of Energy Sources
Course Number: PHYS 43103
Instructor: Benson, C. M.
(501)762-1020 EXT.74
Department: Physics
Program: Solar Technology
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $36.00
Non Resident: $69.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

California

BUTTE COLLEGE

Rt. 1, Box 183A
Oroville, CA 95965
(916)895-2511 (008073)

Tuition (Full Time):
Resident: $13.00 Non Resident: $480.00

Solar Related Courses

Solar Energy Systems
Course Number: TEC 280
Instructor: Peters, Mary
(916)877-8308
Department: Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $6.00
Non Resident: $96.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Hot Water Systems Design and Installation
Course Number: TEC 281
Instructor: Carrozza, Ray
(916)895-2451
Department: Technology
Topics Covered Extensively: Solar Domestic Hot Water; Solar Systems Design; Solar Systems Installation/ Maintenance

CABRILLO COLLEGE

6500 Soquel Drive
Aptos, CA 95003
(408)425-6000 (001124)

Solar Curriculum

Solar Energy Technology
Degree: Associate
Solar Energy
Department: Solar Energy
Contact: Burton, David
(408)425-6452
Program Training: Architecture-Solar Specialization; Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternate Energy Systems, Solar Technology
Course Number: CET60ABCD

Instructor: Burton, David (408)425-6452
Department: Industrial/Electrical Technology
Program: Solar Energy Technology
Academic Credits: 8.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 15.0
Contact Hours: 240.0
Classroom: 80.0
Lab: 160.0
Offered: Day; Evening
Prerequisites: No

Applications of Solar Energy in Agriculture

Course Number: SET 58
Instructor: Merrill, Richard (408)425-6256
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Workshop: 96.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

Fundamentals of Solar Energy

Course Number: SET 50
Instructor: Riordan, Michael (415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Solar Architecture

Course Number: SET 54
Instructor: Riordan, Michael (415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Workshop: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Hybrid Systems; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Electronics

Course Number: SET 59
Instructor: Brown, Douglas (408)425-6328
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Photovoltaics and Solar Cells; Solar Systems Testing/Evaluation

Solar Energy in Agriculture

Course Number: SET 57
Instructor: Merrill, Richard (408)425-6256
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

Solar Field Studies

Course Number: SET 62
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
Prerequisites: No

Solar Home Design

Course Number: SET 53
Instructor: Riordan, Michael (415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Remodeling I

Course Number: SET 55
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Remodeling II

Course Number: SET 56
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Technology and Fabrication I

Course Number: SET 51
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $204.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Technology and Fabrication II

Course Number: SET 52
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Independent Study: 24.0
Lab: 24.0
Offered: Day

Course Fee: Resident: $5.00
Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Special Studies

Course Number: SET 95
Instructor: Burton, David
(408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Independent Study: 96.0
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: Yes

Traveling Solar Energy Show

Course Number: SET 61
Instructor: Burton, David
(408)425-6452
Woodworth, David
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 10.0
Independent Study: 6.0
Job: 70.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: Yes

Wind Energy

Course Number: SET 60
Instructor: Stayton, Bob
(408)426-7828
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

Solar Technical Training

Solar Energy Technology

Degree: Certificate
Solar Energy
Department: Solar Energy
Contact: Burton, David
(408)425-6452
Program Training: Architecture-Solar Specialization; Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Electricity-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternate Energy Systems, Solar Technology

Course Number: CET60ABCD
Instructor: Burton, David
(408)425-6452
Department: Industrial/Electrical Technology
Program: Solar Energy Technology
Academic Credits: 8.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 15.0
Contact Hours: 240.0
Classroom: 80.0
Lab: 160.0
Offered: Day; Evening
Prerequisites: No

Applications of Solar Energy in Agriculture

Course Number: SET 58
Instructor: Merrill, Richard
(408)425-6256
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Workshop: 96.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

Fundamentals of Solar Energy

Course Number: SET 50
Instructor: Riordan, Michael
(415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Solar Architecture

Course Number: SET 54
Instructor: Riordan, Michael
(415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Workshop: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Hybrid Systems; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Electronics

Course Number: SET 59
Instructor: Brown, Douglas
(408)425-6328
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Photovoltaics and Solar Cells; Solar Systems Testing/Evaluation

Solar Energy in Agriculture

Course Number: SET 57
Instructor: Merrill, Richard
(408)425-6256
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

Solar Field Studies

Course Number: SET 62
Instructor: Burton, David
(408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
Prerequisites: No

Solar Home Design

Course Number: SET 53
Instructor: Riordan, Michael
(415)321-2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $5.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Remodeling I

Course Number: SET 55
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Remodeling II

Course Number: SET 56
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Technology and Fabrication I

Course Number: SET 51
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $204.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Technology and Fabrication II

Course Number: SET 52
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Independent Study: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Special Studies

Course Number: SET 95
Instructor: Burton, David (408)425-6452
Department: Solar Energy
Program: Solar Energy Technology
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 96.0
Independent Study: 96.0
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: Yes

Traveling Solar Energy Show

Course Number: SET 61
Instructor: Burton, David (408)425-6452; Woodworth, David
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 10.0
Independent Study: 6.0
Job: 70.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: Yes

Wind Energy

Course Number: SET 60
Instructor: Stayton, Bob (408)426-7828
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

CERRITOS COLLEGE

11110 Alondra Boulevard
Norwalk, CA 90650
(213)860-2451 (001161)

Tuition (Full Time):
Resident: $0.00

Solar Related Courses

Solar Heating and Design

Course Number: Solar II
Instructor: Hartman, Claude (213)860-2451 EXT.316
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Plumbing Techniques; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Introduction to Solar Energy

Solar Heating Installation

Course Number: Solar I
Instructor: Hartman, Claude (213)860-2451 EXT.316
Department: Earth Science
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Evening
Course Fee: Resident: $0.00; Non Resident: $120.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Systems Design

CERRO COSO COMMUNITY COLLEGE

College Heights Boulevard
Ridgecrest, CA 93555
(714)375-5001 (010111)

Solar Curriculum

Air Conditioning and Refrigeration, Solar Option

Degree: Associate Air Conditioning and Refrigeration
Department: Air Conditioning and Refrigeration
Contact: Takacs, Robert L. (714)375-5001 EXT.55
Program Training: Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Collectors and Energy Storage

Course Number: AC/RF 56
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/Sophomore; Professional

Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $153.00
Prerequisites: Yes

Economics, Codes, Legal, Consumerism
Course Number: AC/RF 64
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $102.00
Prerequisites: Yes

Introduction to Solar Energy
Course Number: AC/RF 55
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $102.00
Prerequisites: No

Materials and Materials Handling
Course Number: AC/RF 58
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $153.00
Prerequisites: Yes

Non-Residential Applications and Future Technology
Course Number: AC/RF 62
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $153.00
Prerequisites: Yes

Operational Diagnosis
Course Number: AC/RF 59
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $153.00
Prerequisites: Yes

Solar Sizing, Design and Retrofit
Course Number: AC/RF 57
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $102.00
Prerequisites: Yes

Technical Survey of Energy Sources
Course Number: AC/RF 63
Instructor: Takacs, Robert L. (714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $102.00
Prerequisites: Yes

Solar Technical Training

Air Conditioning and Refrigeration, Solar Option
Degree: Certificate Air Conditioning and Refrigeration
Department: Air Conditioning and Refrigeration
Contact: Takacs, Robert L. (714)375-5001 EXT.55
Program Training: Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

CHAFFEY COLLEGE

5885 Haven Ave.
Alta Loma, CA 91701
(714)987-1737 (001163)

Solar Curriculum

Solar Technology
Degree: Associate Science
Contact: Hunt, William D.
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Blueprint Reading
Course Number: ST 524
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 2.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0

Introduction to Solar Technology
Course Number: ST 500
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Ocean Systems; Wind Energy Conversion Systems

Solar Air Systems
Course Number: ST 504
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Cooling; Solar Heating; Solar Systems Installation/Maintenance

Solar Energy Seminar
Course Number: ST 526
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 2.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes

Solar Heat Transfer
Course Number: ST 520
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Solar Hydronic Systems
Course Number: ST 502
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0

Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance

Solar Sizing
Course Number: ST 522
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

Solar Technical Training

Solar Technology
Degree: Certificate
Contact: Hunt, William D.
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Introduction to Solar Technology
Course Number: ST 500
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Ocean Systems; Wind Energy Conversion Systems

Solar Air Systems
Course Number: ST 504
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Cooling; Solar Heating; Solar Systems Installation/Maintenance

Solar Hydronic Systems
Course Number: ST 502
Instructor: Hunt, William D.
Program: Solar Technology
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance

COLLEGE OF THE REDWOODS

Eureka, CA 95501
(707)443-8411 (001185)

Solar Related Courses

*Solar Heating A **
Course Number: ENSC 20A
Instructor: Mills, David
(707)443-8411
Department: Environmental Science
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 12.0
Hrs. per week: 1.0
Contact Hours: 12.0
Classroom: 12.0
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

*Solar Heating B **
Course Number: ENSC 20 B
Instructor: Mills, David
(707)443-8411
Department: Environmental Science
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 12.0
Hrs. per week: 1.0
Contact Hours: 12.0
Classroom: 12.0
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

*Solar Heating C **
Course Number: ENSC 20C
Instructor: Mills, David
(707)443-8411
Department: Environmental Science
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 12.0
Hrs. per week: 1.0
Contact Hours: 12.0
Classroom: 12.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

COSUMNES RIVER COLLEGE

8401 Center Parkway
Sacramento, CA 95823
(916)421-1000 (007536)

Curriculum with Solar Study

Solar and Alternate Energy Systems
Degree: Associate, Certificate
Department: Environmental Design
Contact: House, Harold
(416)421-1000 EXT.232
Program Training: Architecture-Solar Specialization; Solar System Installation-Residential; General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternate Energy Systems
Course Number: ED 47
Instructor: House, Harold
(916)421-1000 EXT.232
Department: Environmental Design
Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore; Professional; Skilled Labor; Layperson
Academic Credits: 1.5 (Semester)
C.E.U.'s: 1.5
Duration: No. of weeks: 8.0
Hrs. per week: 1.5
Contact Hours: 12.0
Classroom: 12.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion

Introduction to Solar Energy Systems
Course Number: ED 31
Instructor: House, Harold
(916)421-1000 EXT.232
Department: Design
Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 4.0
Contact Hours: 72.0
Classroom: 66.0
Field Trips: 6.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction

Residential Energy Conservation
Course Number: ED 46
Instructor: House, Harold
(916)421-1000 EXT.232
Department: Environmental Design
Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore; Professional; Skilled Labor; Layperson
Academic Credits: 1.5 (Semester)
C.E.U.'s: 1.5
Duration: No. of weeks: 8.0
Hrs. per week: 1.5
Contact Hours: 12.0
Classroom: 12.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Materials; Solar Home Construction

Solar Energy Appliances Construction and Installation
Course Number: ED 71
Instructor: House, Harold
(916)421-1000 EXT.232
Department: Environmental Design
Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Workshop: 48.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Heated Water Systems
Course Number: ED 32
Instructor: House, Harold
(916)421-1000 EXT.232
Department: Environmental Design

Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Workshop: 48.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

CUESTA COLLEGE

San Luis Obispo, CA 93406
(805)544-2943 (001192)

Solar Related Courses

*Application of Solar Energy Systems **
Course Number: CT 60
Instructor: Lagomarsino, Peter (805)543-2943
Department: Construction Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Domestic Hot Water; Solar Heating; Solar Cooling

DE ANZA COLLEGE

Cupertino, CA 95014
(408)996-4567 (004480)

Solar Related Courses

*Design of Solar Energy Systems - Heating and Cooling A **
Course Number: 379A
Instructor: Wedel, R. (408)493-4411
Department: Engineering
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0

*Design of Solar Energy Systems - Heating and Cooling B **
Course Number: 379B
Instructor: Wedel, R. (408)493-4411
Department: Engineering
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Solar Systems Design

*Utilization of Solar Energy **
Course Number: 369
Department: Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 18.0
Lab: 18.0

FRESNO CITY COLLEGE

1101 E. University
Fresno, CA 93704
(209)442-4600 (001307)

Tuition (Full Time):

Resident: $2.00 Non Resident: $300.00

Curriculum with Solar Study

Heating, Ventilating, and Air Conditioning
Degree: Associate, Certificate Industrial
Department: Technical and Industrial
Contact: Wash, Dennis C. (209)442-4600 EXT.8523
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Solar Systems
Course Number: AC 55
Instructor: Wash, Dennis C. (209)442-4600 EXT.8523
Department: Technical and Industrial
Program: Heating, Ventilating, and Air Conditioning
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 4.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $2.00
Non Resident: $300.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques

Solar Related Courses

Energy
Course Number: Env. Studies 9B
Instructor: Brown, Richard S. (209)442-4600 EXT.8429
Department: Earth and Physical Science
Student Level: All Levels
Duration: No. of weeks: 9.0
Hrs. per week: 2.0
Contact Hours: 18.0
Classroom: 18.0
Offered: Evening
Course Fee: Resident: $6.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems

Solar Energy
Course Number: Sp. Studies 47
Instructor: Brown, Richard S. (209)442-4600 EXT.8429
Department: Earth and Physical Science
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $6.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Heating

GAVILAN COLLEGE

5055 Santa Teresa Boulevard
Gilroy, CA 95020
(408)847-1400 (001202)

Solar Related Courses

Principles of Solar Energy System Installation
Course Number: 66A
Instructor: Hanson, John
Department: Occupational Education
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Heating Systems
Course Number: 66B
Instructor: Hanson, John
Department: Occupational Education
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Passive Solar Systems; Plumbing Techniques; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

HARBOR OCCUPATIONAL CENTER

740 North Pacific Avenue
San Pedro, CA 90731
(213)547-5551 (060121)

Tuition (Full Time):

Resident: $30.50

Solar Technical Training

Solar Energy
Degree: Certificate
Department: Refrigeration and Air Conditioning
Contact: Rohr, Gene (213)547-5551
Program Training: Architecture-Solar Specialization; Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy
Course Number: 29-27-21

Instructor: Kloth, R. A.
(213)547-5551
Program: Solar Energy
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 5.0 (Quinmester)
C.E.U.'s: 5.0
Duration: No. of weeks: 19.0
Hrs. per week: 15.0
Contact Hours: 285.0
Classroom: 90.0
Workshop: 186.0
Field Trips: 6.0
Offered: Day
Course Fee: Resident: $30.50
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

LOS ANGELES TRADE TECHNICAL COLLEGE

400 West Washington Boulevard
Los Angeles, CA 90015
(213)746-0800 (001227)

Tuition (Full Time):

Resident: $0.00 Non Resident: $0.00

Curriculum with Solar Study

Air Conditioning and Refrigeration Technology
Degree: Associate, Certificate
Air Conditioning and Refrigeration Technology
Department: Mechanical; Electrical
Contact: Alerich, Walter
(213)746-0800 EXT.267
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Energy Management in Buildings
Course Number: 189
Instructor: Adams, N.
(213)746-0800 EXT.273
Department: Mechanical, Electrical
Program: Air Conditioning and Refrigeration Technology
Student Level: College Freshman/ Sophomore; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer

Solar Energy
Course Number: 188
Instructor: Adams, N.
(213)746-0800 EXT.273
Department: Mechanical, Electrical
Program: Air Conditioning and Refrigeration Technology
Student Level: College Freshman/ Sophomore; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

MODESTO JUNIOR COLLEGE

Modesto, CA 95350
(209)526-2000 (001240)

Solar Technical Training

*External - Project Sunrise **
Department: Physical Science; Agriculture; Community Services
Contact: Wilson, E. William
(209)526-2000

Program and Curriculum Related Courses

*Solar Energy Applications **
Course Number: PS 368
Instructor: Wilson, E. William
(209)526-2000
Department: Engineering, Physical Science and Mathematics
Program: External - Project Sunrise *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 42.0
Lab: 6.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Domestic Hot Water; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

MONTEREY PENINSULA COLLEGE

Monterey, CA 93940
(408)649-1150 (001242)

Solar Technical Training

*Solar Collector Fabrication **
Degree: Certificate
Solar Collectors
Department: Manufacturing Technology
Contact: Patrick, Owen
(408)649-1150

Program and Curriculum Related Courses

Program: Solar Collector Fabrication *

Solar Related Courses

*Introduction to Solar and Alternate Energy Sources **
Course Number: 30295-40
Instructor: Lee, Dick
(408)649-8000
Department: Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

MOUNT SAN ANTONIO COLLEGE

Walnut, CA 91789
(714)598-2811 (001245)

Curriculum with Solar Study

*Air Conditioning, Heating, and Ventilating **
Degree: Associate
Air Conditioning, Heating, and Refrigeration
Department: Electronics
Contact: Dillon, Clifford
(714)594-5611
Program Training: Electricity-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Plumbing-Solar Specialization

Program and Curriculum Related Courses

*Solar and Alternate Energy Sources **
Course Number: 70
Instructor: Bormann, Jay
(714)594-5611
Department: Electronics
Program: Air Conditioning, Heating, and Ventilating *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Plumbing Techniques; Components-Solar; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation; Solar Heating

*Solar Energy Systems Installation **
Course Number: 71/71L
Instructor: Bormann, Jay
(714)594-5611
Department: Electronics
Program: Air Conditioning, Heating, and Ventilating *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

MOUNT SAN JACINTO COLLEGE

21400 Highway 79
San Jacinto, CA 92383
(714)654-7321 (001246)
Non Resident: $700.00

Solar Related Courses

Solar Collector Design
Course Number: Engr 6
Instructor: Caldwell, Benton
(714)654-7321

Department: Vocational Education
Student Level: College Junior/Senior; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Non Resident: $140.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Hybrid Systems; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Energy Applications
Course Number: Engr 4
Instructor: Caldwell, Benton (714)654-7321
Department: Vocational Education
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Non Resident: $140.00
Prerequisites: No
Topics Covered Extensively: Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

Solar System Design
Course Number: Engr 7
Instructor: Caldwell, Benton (714)654-7321
Department: Vocational Education
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Non Resident: $140.00
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

ORANGE COAST COLLEGE

2701 Fairview Road
Costa Mesa, CA 92626
(714)556-5651 (001250)

Curriculum with Solar Study

Power Engineering
Degree: Certificate, Associate Power Engineering, Air Conditioning
Department: Technology
Contact: Abernathy, Bill (714)556-5812
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Heating and Air Conditioning
Course Number: Solar 115
Instructor: Abernathy, Bill (714)556-5812
Department: Technology
Program: Power Engineering
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design

Solar II
Course Number: SOLAR 117
Instructor: Abernathy, Bill (714)556-5812
Department: Technology
Program: Power Engineering
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating

SAN DIEGO CITY COLLEGE

1313 12th Avenue
San Diego, CA 92101 (008895)

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration Technology
Degree: Associate, Certificate Technical and Graphics
Department: Technical and Graphics
Contact: Warnock, Charles (714)238-1181 EXT.336
Program Training: Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Program: Air Conditioning, Heating and Refrigeration Technology

SAN DIEGO COMMUNITY COLLEGE - EVENING COLLEGE

San Diego, CA 92101
(714)238-1181 (007478)

Solar Technical Training

*Air Conditioning, Heating, Refrigeration and Solar Technology **
Degree: Associate, Certificate Air Conditioning, Heating, Refrigeration and Solar Technology
Department: City Campus
Contact: Belker, Loren (714)238-1181
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Advanced Solar Service, Maintenance and Technology **
Course Number: 226
Instructor: Faris, Theodore (714)238-1181
Department: City Campus
Program: Air Conditioning, Heating, Refrigeration and Solar Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

*Air Conditioning, Heating, Refrigeration, and Solar Energy **
Course Number: 201
Instructor: Faris, Theodore (714)238-1181
Department: City Campus
Program: Air Conditioning, Heating, Refrigeration and Solar Technology *
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

*Solar Service, Maintenance, and Technology **
Course Number: 225
Instructor: Faris, Theodore (714)238-1181
Department: City Campus
Program: Air Conditioning, Heating, Refrigeration and Solar Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

SAN JOSE CITY COLLEGE

2100 Moorpark Avenue
San Jose, CA 95128
(408)298-2181 (001282)

Tuition (Full Time):
Resident: $5.00 Non Resident: $840.00

Solar Technical Training

Solar Technology

Degree: Associate, Certificate Science
Department: Natural and Applied Science; Air Conditioning and Refrigeration
Contact: Haley, J. P. (408)298-2181 EXT.417

Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Architecture-Solar Specialization; Solar Energy Education; Electricity-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy, Industrial Applications

Course Number: SOLAR 114
Instructor: Haley, J. P. (408)298-2181 EXT.417
Department: Air Conditioning and Refrigeration
Program: Solar Technology
Student Level: Professional; Layperson; Skilled Labor; College Freshman/Sophomore
C.E.U.'s: 0.3
Duration: No. of weeks: 17.0; Hrs. per week: 6.0
Contact Hours: 102.0
Classroom: 34.0
Lab: 68.0
Offered: Day; Evening
Course Fee: Resident: $5.00; Non Resident: $168.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer

Solar Energy, Residential Applications

Course Number: SOLAR 113
Instructor: Haley, J. P. (408)298-2181 EXT.417
Department: Air Conditioning and Refrigeration
Program: Solar Technology
Student Level: Professional; Layperson; Skilled Labor; College Freshman/Sophomore
C.E.U.'s: 3.0
Duration: No. of weeks: 17.0; Hrs. per week: 6.0
Contact Hours: 102.0
Classroom: 34.0
Lab: 68.0
Offered: Day; Evening
Course Fee: Resident: $5.00; Non Resident: $168.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy

SOLAR TECHNICIAN TRAINING PROGRAM - OFFICE OF APPROPRIATE TECHNOLOGY

OFFICE OF APPROPRIATE TECHNOLOGY
1530 10th Street
Sacramento, CA 95814
(916)322-9245 (090530)

Solar Technical Training

Solar Installer Training Curriculum

Contact: Schmidt, Werner; Philbin, Jan (916)322-9238

Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

THE OWNER BUILDER CENTER

1824 Fourth Street
Berkeley, CA 94710
(415)848-5951 (091080)

Tuition (Full Time):

Resident: $150.00

Solar Related Courses

Advanced Housebuilding

Instructor: Roskind, Robert (415)848-5951
Student Level: Layperson
Duration: No. of weeks: 8.0; Hrs. per week: 8.0
Contact Hours: 64.0
Job: 64.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $150.00
Prerequisites: No

Housebuilding Course

Instructor: Roskind, Robert (415)848-5950
Department: Owner Builder Center
Student Level: Professional; Skilled Labor; Layperson
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $200.00; Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction

Residence Housebuilding

Instructor: Roskind, Robert (415)848-5951
Student Level: Layperson
Contact Hours: 180.0
Classroom: 90.0
Job: 90.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $500.00
Prerequisites: No

Seminar: Passive Solar Design

Instructor: Roskind, Robert (415)848-5951
Student Level: Layperson
Contact Hours: 7.0
Classroom: 7.0
Offered: Day; Weekend
Course Fee: Resident: $25.00
Prerequisites: No

Seminar: Solar Hot Water Heating Systems

Instructor: Roskind, Robert (415)848-5951
Student Level: Layperson
Contact Hours: 7.0
Seminar: 7.0
Offered: Day; Weekend
Course Fee: Resident: $25.00

Seminar: The Solar Tax Credits and Energy Efficiency in Buildings

Instructor: Roskind, Robert (415)848-5951
Student Level: Layperson
Contact Hours: 7.0
Seminar: 7.0
Offered: Day; Weekend
Course Fee: Resident: $25.00
Prerequisites: No

Colorado

AIMS COMMUNITY COLLEGE

P O Box 69
Greeley, CO 80631
(303)353-8008 (007582)

Tuition (Full Time):

Resident: $90.00 Non Resident: $120.00

Solar Related Courses

Introduction to the Principles of Solar Energy

Course Number: SCI 105
Instructor: Compestine, Frank (303)353-8008 EXT.252
Department: Science, Mathematics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Field Trips: 10.0
Offered: Evening
Course Fee: Resident: $18.00; Non Resident: $24.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Solar Home Construction; Solar Systems Design

Solar Air Heater

Course Number: VTR 116A
Instructor: Tryon, Vern (303)454-3618
Student Level: All Levels; Layperson
Academic Credits: 1.0 (Quarter)
Contact Hours: 10.0
Seminar: 10.0
Offered: Evening; Weekend
Course Fee: Resident: $6.00; Non Resident: $32.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Introduction to Solar Energy; Materials; Solar Heating; Solar Systems Installation/Maintenance

Solar Water Collector

Course Number: VTR 117A
Instructor: Tryon, Vern (303)454-3618
Student Level: All Levels; Layperson
Academic Credits: 1.0 (Quarter)
Contact Hours: 10.0
Seminar: 10.0
Offered: Evening; Weekend
Course Fee: Resident: $6.00; Non Resident: $32.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Introduction to Solar Energy; Materials; Solar Domestic Hot Water

COLORADO MOUNTAIN COLLEGE WEST CAMPUS

Glenwood Springs, CO 81601
(303)945-7481 (004506)

Solar Related Courses

Solar Architecture

Course Number: BLO 204 A3-5
Department: General Studies
Student Level: All Levels
Academic Credits: 5.0
C.E.U.'s: 5.0

Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Energy
Course Number: BLO 205
Department: General Studies
Student Level: All Levels
Academic Credits: 3.0
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.5
Contact Hours: 35.0
Classroom: 20.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $18.00
Non Resident: $135.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Systems Design

Solar Greenhouse
Course Number: BLO 247 S1
Department: General Studies
Student Level: All Levels
Academic Credits: 1.0
C.E.U.'s: 1.0
Contact Hours: 10.0
Workshop: 10.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $6.00
Non Resident: $45.00
Prerequisites: No
Topics Covered Extensively: Greenhouse Techniques

Solar Heating Residential Buildings
Course Number: BLO 247 R1-2
Department: General Studies
Student Level: All Levels
Academic Credits: 2.0
C.E.U.'s: 2.0
Contact Hours: 20.0
Classroom: 5.0
Seminar: 5.0
Workshop: 10.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $12.00
Non Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

COLORADO STATE UNIVERSITY

Fort Collins, CO 80523
(303)491-5321 (001350)

Solar Technical Training

Practical Training in Design and Installation of Solar Systems
Degree: Certificate
Department: Solar Energy Applications Lab
Contact: Karaki, S.
(303)491-8617
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Design of Solar Energy Systems
Course Number: CE/ME 676
Department: Engineering
Program: Practical Training in Design and Installation of Solar Systems
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0

Practical Design and Installation of Solar Systems
Program: Practical Training in Design and Installation of Solar Systems
C.E.U.'s: 3.0
Contact Hours: 40.0

Principles of Solar Energy Applications
Course Number: CE/ME 675
Department: Engineering
Program: Practical Training in Design and Installation of Solar Systems
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0

Solar Heating and Cooling
Course Number: CE/ME 475
Program: Practical Training in Design and Installation of Solar Systems
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0

COLORADO TECHNICAL COLLEGE

655 Elkton Drive
Colorado Springs, CO 80907
(303)598-0200 (010148)

Tuition (Full Time):

Resident: $575.00 Non Resident: $575.00

Solar Curriculum

Solar Engineering Technology
Degree: Bachelor, Associate Applied Science
Department: Solar Engineering Technology
Contact: Christensen, Edward
(303)598-0200
Program Training: Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Associate Seminar
Course Number: SOL 250
Instructor: Mueller, Donald
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/Sophomore
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 1.0
Contact Hours: 11.0
Seminar: 11.0
Offered: Day
Prerequisites: Yes

Directed Practice
Course Number: SOL 299
Instructor: Christensen, Edward
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Independent Study: 66.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Testing/ Evaluation

Introduction to Energy
Course Number: SOL 100
Instructor: Matz, Diann
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/ Sophomore; Professional; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

Solar Design I
Course Number: SOL 220
Instructor: Christensen, Edward
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/ Sophomore; Professional; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Heating

Solar Design II
Course Number: SOL 221
Instructor: Christensen, Edward
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 33.0
Lab: 22.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Science I
Course Number: SOL 200
Instructor: Christensen, Edward
(303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Science II

Course Number: SOL 404
Instructor: Mueller, Donald (303)598-0200
Department: Solar Engineering Technology
Program: Solar Engineering Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0 Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Heating; Solar Systems Design

COMMUNITY COLLEGE OF DENVER, RED ROCKS CAMPUS

12600 West 6th Avenue
Golden, CO 80401
(303)988-6160 (009543)

Tuition (Full Time):

Resident: $194.50 Non Resident: $876.50

Solar Curriculum

Solar Energy-Installation and Maintenance

Degree: Associate
Solar Energy-Installation and Maintenance
Department: Industrial Occupations
Contact: Hilton, Craig
Hilton, Robert
(303)988-6161

Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Advanced Passive Solar Systems

Course Number: SOM 240
Instructor: Ternoey, Steve (303)988-6160 EXT.369
Hilton, Craig
Hilton, Robert
Department: Industrial Occupations, Building Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $52.00 Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Marketing/Economic Analysis

Advanced Solar Controls

Course Number: SOM 236
Instructor: Klima, John (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $48.60 Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Agricultural Applications of Renewable Energy Resources

Course Number: SOM 246
Instructor: Malik, M. A. S. (303)988-6160 EXT.225
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 52.0
Lab: 16.0
Offered: Evening
Course Fee: Resident: $70.00 Non Resident: $310.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Systems Design

Alternate Support Systems for Solar Energy

Course Number: SOM 238
Instructor: Hilton, Robert (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $48.60 Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Basic Sheet Metal for Solar Energy

Course Number: SHM 100
Instructor: DuPriest, Don (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Evening
Course Fee: Resident: $48.60 Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Components-Solar; Materials; Sheet Metal Techniques; Solar Heating; Solar Systems Installation/Maintenance

Basic Solar Controls

Course Number: SOM 235
Instructor: Klima, John (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Evening
Course Fee: Resident: $48.60 Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Components-Solar; Materials; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Basic Solar Systems

Course Number: SOM 220
Instructor: Hilton, Craig (303)988-6160
Hilton, Robert
Berdaus, Paul
Department: Industrial Occupations, Building Construction Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00 Non Resident: $232.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Home Construction

Blueprint Reading for Construction Trades

Course Number: BTR 125
Instructor: Feister, Clarence (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Day; Evening
Course Fee: Resident: $64.80 Non Resident: $292.20
Prerequisites: No
Topics Covered Extensively: Solar Home Construction

Carpentry for Construction Trades

Course Number: CAR 125
Instructor: Hinz, Tim (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance

Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Home Construction

Computer & Calculator Techniques for Solar Energy

Course Number: SOM 260
Instructor: Davis, Mary
(303)988-6160 EXT.369
Department: Building & Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $35.00
Non Resident: $155.00
Prerequisites: No

Earth Shelter Dwellings

Course Number: SOM 249
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Department: Building & Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Day; Evening
Course Fee: Resident: $70.00
Non Resident: $310.00
Prerequisites: Yes
Topics Covered Extensively: Materials; Passive Solar Systems; Solar Home Construction

Greenhouses

Course Number: SOM 245
Instructor: Malik, M. A. S.
(303)988-6160 EXT.225
Department: Industrial Occupations, Building Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $70.00
Non Resident: $310.00
Prerequisites: Yes

Topics Covered Extensively: Greenhouse Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Heat and Energy Transfer; Materials; Solar Systems Design

Hot Water Heating - Installation and Maintenance

Course Number: PLU 206
Instructor: Hilton, Robert
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques

Introduction to Wind Energy

Course Number: SOM 239
Course Number: (303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Job: 10.0
Lab: 20.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Orientation of Tools, Basic Plumbing, and Drawing

Course Number: PLU 100
Instructor: Hilton, Robert
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Plumbing Techniques

Passive Solar Systems

Course Number: SOM 237
Instructor: Ternoey, Steve
(303)988-6160
Bond, Brooks
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Site Built Solar Systems

Course Number: SOM 247
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Berdaus, Paul
Department: Building & Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Domestic Hot Water

Course Number: SOM 227
Instructor: Hilton, Craig
(303)988-6160
Hilton, Robert
O'Connor, Kevin
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 20.0
Lab: 25.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Engineering Technology I

Course Number: SOM 221
Instructor: Haugseth, Larry
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $64.80
Non Resident: $292.20
Prerequisites: No

Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Engineering Technology II

Course Number: SOM 222
Instructor: Dahl, Mike
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $64.80
Non Resident: $292.20
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Heating; Solar Systems Design

Solar Greenhouse Construction

Course Number: SOM 248
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Department: Building & Machine Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Greenhouse Techniques; Materials; Passive Solar Systems

Solar Lab

Course Number: SOM 298
Instructor: Hilton, Craig
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Contact Hours: 240.0
Course Fee: Resident: $52.00
Non Resident: $232.00
Topics Covered Extensively: Components-Solar; Sheet Metal Techniques; Solar Systems Design

Solar Panel Arrays

Course Number: SOM 226
Instructor: Hilton, Robert
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Home Construction; Solar Systems Installation/ Maintenance

Solar Panel Installations

Course Number: SOM 229
Instructor: Hilton, Craig
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Hybrid Systems; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar System Design and Layout

Course Number: SOM 225
Instructor: Hilton, Robert
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Course Fee: Resident: $48.00
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar System Estimating and Maintenance Techniques

Course Number: SOM 228
Instructor: Hilton, Craig
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 35.0
Job: 10.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Energy Policy Development; Solar Marketing/Economic Analysis; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Water Piping Methods

Course Number: PLU 107
Instructor: Hilton, Robert
(303)988-6160
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques

Bricklaying for Solar Energy

Course Number: BRI 125
Instructor: Rudden, Dick
(303)988-6160 EXT.225
Department: Industrial Occupations, Building Contruction Trades
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Home Construction; Solar Systems Installation/Maintenance; Components-Solar

Passive Solar Energy Drafting & Design

Degree: Associate
Passive Solar Energy Drafting & Design
Department: Building & Machine Trades; Science & Technology
Contact: Hilton, Craig
Hilton, Robert
Deaver, Larry
(303)988-6160 EXT.369
Program Training: Architecture-Solar Specialization; Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential

Program and Curriculum Related Courses

Advanced Passive Solar Systems

Course Number: SOM 240
Instructor: Ternoey, Steve
(303)988-6160 EXT.369
Hilton, Craig
Hilton, Robert
Department: Industrial Occupations, Building Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Marketing/ Economic Analysis

Basic Solar Systems

Course Number: SOM 220
Instructor: Hilton, Craig
(303)988-6160
Hilton, Robert
Berdaus, Paul

Department: Industrial Occupations, Building Construction Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Home Construction

Computer & Calculator Techniques for Solar Energy

Course Number: SOM 260
Instructor: Davis, Mary
(303)988-6160 EXT.369
Department: Building & Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $35.00
Non Resident: $155.00
Prerequisites: No

Earth Shelter Dwellings

Course Number: SOM 249
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Department: Building & Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Day; Evening
Course Fee: Resident: $70.00
Non Resident: $310.00
Prerequisites: Yes
Topics Covered Extensively: Materials; Passive Solar Systems; Solar Home Construction

Greenhouses

Course Number: SOM 245
Instructor: Malik, M. A. S.
(303)988-6160 EXT.225
Department: Industrial Occupations, Building Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $70.00
Non Resident: $310.00
Prerequisites: Yes
Topics Covered Extensively: Greenhouse Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Heat and Energy Transfer; Materials; Solar Systems Design

Industrial Piping and Utility Consideration

Course Number: DRI 206
Instructor: Deaver, Larry
(303)988-6160
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Systems Design

Introduction to Architectural Drafting-Frame Construction

Course Number: DRC 116
Instructor: Deaver, Larry
(303)988-6160
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 8.0
Contact Hours: 120.0
Classroom: 30.0
Lab: 90.0
Offered: Day; Evening
Course Fee: Resident: $105.00
Non Resident: $465.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Passive Solar Systems; Solar Home Construction

Introduction to Commercial Architecture-Masonry Construction

Course Number: DRC 200
Instructor: Deaver, Larry
(303)988-6160
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 8.0
Contact Hours: 120.0
Classroom: 30.0
Lab: 90.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Passive Solar Systems; Solar Home Construction

Introduction to Drafting

Course Number: DRI 105
Instructor: Deaver, Larry
(303)988-6160
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 8.0
Contact Hours: 120.0
Classroom: 30.0
Lab: 90.0
Offered: Day; Evening
Course Fee: Resident: $105.00
Non Resident: $465.00
Prerequisites: No
Topics Covered Extensively: Solar Home Construction

Passive Solar Systems

Course Number: SOM 237
Instructor: Ternoey, Steve
(303)988-6160
Bond, Brooks
Department: Industrial Occupations
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Perspective Drawing

Course Number: DRI 115
Instructor: Deaver, Larry
(303)988-6160
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Solar Home Construction

Site Built Solar Systems

Course Number: SOM 247
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Berdaus, Paul
Department: Building & Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Drafting Technical Project

Course Number: DRS 210

Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Deaver, Larry
Department: Science & Technology
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 8.0
Contact Hours: 120.0
Classroom: 120.0
Offered: Day; Evening
Course Fee: Resident: $105.00
Non Resident: $465.00
Prerequisites: Yes
Topics Covered Extensively: Materials; Passive Solar Systems; Solar Home Construction; Solar Systems Design

Solar Greenhouse Construction
Course Number: SOM 248
Instructor: Hilton, Craig
(303)988-6160 EXT.369
Hilton, Robert
Department: Building & Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Greenhouse Techniques; Materials; Passive Solar Systems

Solar Walls & Fireplaces
Course Number: BRI 126
Instructor: Rudden, Dick
(303)988-6160 EXT.225
Department: Building & Machine Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Materials; Passive Solar Systems; Solar Home Construction

Bricklaying for Solar Energy
Course Number: BRI 125
Instructor: Rudden, Dick
(303)988-6160 EXT.225
Department: Industrial Occupations, Building Contruction Trades
Program: Passive Solar Energy Drafting & Design
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $52.00
Non Resident: $232.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Home Construction; Solar Systems Installation/Maintenance; Components-Solar

Solar Technical Training

Solar Energy - Installation and Maintenance
Degree: Certificate
Solar Energy - Installation and Maintenance
Department: Industrial Occupations
Contact: Hilton, Craig
Hilton, Robert
(303)988-6161
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Program: Solar Energy - Installation and Maintenance

Solar Related Courses

Energy Conservation Methods
Course Number: SOM 217
Instructor: Reed, Ken
(303)988-6160 EXT.260
Department: Community Services
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 8.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Day; Weekend
Course Fee: Resident: $16.00
Non Resident: $76.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Solar Law/Legislation

Introduction to Passive Solar Energy
Course Number: SOM 218
Instructor: Snowdon, Will
(303)988-6160 EXT.260
Department: Community Services
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 8.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Day; Weekend
Course Fee: Resident: $16.00
Non Resident: $76.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Law/Legislation

Introduction to Solar Energy
Course Number: SOM 219
Instructor: Hilton, Craig
(303)988-6160 EXT.260
Hilton, Robert
Williams, John
Department: Community Services
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 4.0
Hrs. per week: 8.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Day; Weekend
Course Fee: Resident: $32.00
Non Resident: $152.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Law/Legislation

DOMESTIC TECHNOLOGY INSTITUTE

Box 2043
Evergreen, CO 80439 (090550)

Solar Related Courses

Community Energy Technology
Topics Covered Extensively: Components-Solar; Energy Conservation; Greenhouse Techniques; Passive Solar Systems; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Earth Shelter Design and Construction
Topics Covered Extensively: Energy Conservation; Passive Solar Systems

Low-cost Solar Heating and Cooling
Topics Covered Extensively: Components-Solar; Materials; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Heating; Solar Home Construction

Passive Solar Design and Construction
Topics Covered Extensively: Components-Solar; Greenhouse Techniques; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Reliant Greenhouse Design and Construction
Topics Covered Extensively: Greenhouse Techniques; Passive Solar Systems; Solar Systems Design

EMILY GRIFFITH OPPORTUNITY SCHOOL

1250 Welton Street
Denver, CO 80204
(303)572-8218 (060176)

Tuition (Full Time):

Resident: $12.00 Non Resident: $156.00

Solar Technical Training

Refrigeration, Air Conditioning, and Heating
Degree: Certificate
Air Conditioning
Department: Technical Occupations
Contact: White, Croley
(303)572-8218 EXT.239
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Refrigeration, Air Conditioning, and Heating
Course Number: TE 738
Instructor: White, Croley
(303)572-8218 EXT.239
Department: Technical Occupations
Program: Refrigeration, Air Conditioning, and Heating
Student Level: Skilled Labor; Layperson
Duration: No. of weeks: 38.0
Hrs. per week: 30.0
Contact Hours: 1080.0
Classroom: 432.0
Lab: 648.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Solar Domestic Hot Water

MESA COLLEGE

Box 2647
Grand Junction, CO 81501
(303)248-1476 (001358)

Solar Technical Training

Solar Power

	Engineering, Continuing Education
Department:	Continuing Education; Outreach
Contact:	Ramsey, Woodrow (303)248-1565

Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Advanced Solar

Instructor:	Ramsey, Woodrow (303)248-1020
Department:	Engineering, Continuing Education
Program:	Solar Power
Student Level:	Layperson
Academic Credits:	2.0 (Semester)
Duration:	No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours:	30.0
Classroom:	20.0
Lab:	10.0
Offered:	Evening
Course Fee:	Resident: $27.00 Non Resident: $27.00
Prerequisites:	No

Topics Covered Extensively: Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy

Beginning Solar Power

Instructor:	Ramsey, Woodrow (303)248-1020
Department:	Engineering, Continuing Education
Program:	Solar Power
Student Level:	Layperson
C.E.U.'s:	1.0
Duration:	No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours:	30.0
Classroom:	20.0
Lab:	10.0
Offered:	Evening
Course Fee:	Resident: $27.00 Non Resident: $27.00
Prerequisites:	No

Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Solar Practicum

Instructor:	Ramsey, Woodrow (303)248-1020
Department:	Engineering, Continuing Education
Program:	Solar Power
Student Level:	Layperson
Duration:	No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours:	30.0
Offered:	Evening
Course Fee:	Resident: $27.00 Non Resident: $27.00
Prerequisites:	No

Topics Covered Extensively: Alternate Energy Sources

OTERO JUNIOR COLLEGE

La Junta, CO 81050
(303)384-4443 (001362)

Curriculum with Solar Study

*Architectural Technology - Solar Heating Option **

Degree:	Associate Applied Science
Department:	Construction; Manufacturing
Contact:	Nilsen, E. W. (303)384-4443

Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Architectual Technology - Solar Heating Option **

Instructor:	Nilsen, E. W. (303)384-4443
Department:	Construction and Manufacturing
Program:	Architectural Technology - Solar Heating Option *
Student Level:	College Freshman/Sophomore
Duration:	No. of weeks: 30.0 Hrs. per week: 12.0
Contact Hours:	360.0

Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating

SOLARON CORPORATION

720 South Colorado Boulevard Suite 440
Denver, CO 80222
(303)759-0101 (091150)

Tuition (Full Time):

Resident: $250.00 Non Resident: $250.00

Solar Technical Training

Solaron Solar Center Programs

Degree:	Certificate Solar Space Heating/Process Air and Water Heating
Department:	Solaron Corporation
Contact:	Meeker, John G. (303)759-0101

Program Training: Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Detailed Installation, Startup, Balancing, and Service Lab

Course Number:	C
Instructor:	Program Coordinator (303)759-0101
Department:	Engineering and Systems Service
Program:	Solaron Solar Center Programs
Student Level:	Professional; Skilled Labor
Contact Hours:	32.0
Classroom:	10.0
Lab:	22.0
Offered:	Day
Course Fee:	Resident: $250.00 Non Resident: $250.00

Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

General Installation and Startup Lab

Course Number:	B
Instructor:	Program Coordinator (303)759-0101
Department:	Engineering and Systems Service
Program:	Solaron Solar Center Programs
Student Level:	Managerial; Professional; Skilled Labor
Contact Hours:	16.0
Classroom:	6.0
Lab:	10.0
Offered:	Day
Course Fee:	Resident: $150.00 Non Resident: $150.00
Prerequisites:	Yes

Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Marketing, Engineering Seminar

Course Number:	A
Instructor:	Program Coordinator (303)759-0101
Program:	Solaron Solar Center Programs
Student Level:	Managerial; Professional; Skilled Labor
Contact Hours:	24.0
Classroom:	24.0
Offered:	Day
Course Fee:	Resident: $50.00 Non Resident: $50.00
Prerequisites:	Yes

Topics Covered Extensively: Components-Solar; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

TRINIDAD STATE JUNIOR COLLEGE

600 Prospect Street
Trinidad, CO 81082
(303)846-5531 (001368)

Tuition (Full Time):

Resident: $130.00 Non Resident: $480.00

Solar Technical Training

Building Trades Shop

Degree:	Certificate House Construction
Department:	Building Trades
Contact:	Furia, Nick Brunelli, Roger F. (303)846-5571

Program Training: Solar Energy Education; Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Home Construction

Course Number:	BT 280
Instructor:	Brunelli, Roger F. (303)846-5571
Department:	Building Trades
Program:	Building Trades Shop
Student Level:	All Levels; Professional; Skilled Labor; Layperson
Academic Credits:	3.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours:	30.0
Classroom:	30.0
Offered:	Evening
Course Fee:	Resident: $11.00 Non Resident: $40.00
Prerequisites:	Yes

Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Connecticut

MILDEN INSTITUTE INCORPORATED

447 Washington Avenue
North Haven, CT 06418
(203)239-2586 (090580)

Solar Technical Training

Solar Technology
Degree: Certificate
Contact: Milazzo, Pasquale (203)239-2586
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Building and Construction Fundamentals
Course Number: SH 201 Unit 4
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction; Solar Systems Design

Field Work
Course Number: SH 202 Unit 1
Program: Solar Technology
Academic Credits: 8.0 (Trimester)
Topics Covered Extensively: Plumbing Techniques; Solar Systems Design; Solar Systems Installation/Maintenance

Passive Solar Systems
Course Number: SH 202 Unit 2
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Greenhouse Techniques; Passive Solar Systems

Solar Domestic Hot Water Systems
Course Number: SH 102 Unit 6
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Solar Domestic Hot Water; Solar Marketing/Economic Analysis

Solar Energy Fundamentals
Course Number: SH 101 Unit 4
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Components-Solar; Solar Systems Design

Solar Energy Fundamentals Laboratory
Course Number: SH 101 Unit 5
Program: Solar Technology
Academic Credits: 1.0 (Trimester)
Topics Covered Extensively: Components-Solar; Solar Systems Design

Solar Hot Water Installation Techniques
Course Number: SH 201 Unit 3
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Solar Domestic Hot Water; Solar Systems Installation/Maintenance

Solar Instrumentation
Course Number: SH 202 Unit 3
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Components-Solar

Solar Space Heating
Course Number: SH 201 Unit 6
Program: Solar Technology
Academic Credits: 3.0 (Trimester)
Topics Covered Extensively: Solar Heating; Solar Systems Design

Solar Related Courses

Practical Installation of Solar Heating and Domestic Water Systems
Instructor: Civitello, A. J. (203)239-2586
Department: Evening-Extension
Student Level: All Levels
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 8.0; Hrs. per week: 3.0
Contact Hours: 24.0
Job: 24.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Energy Heating Systems
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 8.0; Hrs. per week: 3.0
Contact Hours: 24.0
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating

NORWALK STATE TECHNICAL COLLEGE

181 Richards Avenue
Norwalk, CT 06854
(203)838-0601 (001400)

Tuition (Full Time):

Resident: $337.00 Non Resident: $1,092.00

Solar Technical Training

Solar Technology
Degree: Certificate
Solar Design, Installation
Department: Math; Science
Contact: Newton, Thomas J. (203)838-0601 EXT.44
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Conservation
Course Number: SE 110
Instructor: Newton, Thomas J. (203)838-0601 EXT.44
Department: Math, Science
Program: Solar Technology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $47.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Materials

Installation and Maintenance of Solar Systems
Course Number: SE 130
Instructor: Newton, Thomas J. (203)838-0601 EXT.44
Department: Math, Science
Program: Solar Technology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 18.0
Seminar: 6.0
Workshop: 9.0
Offered: Evening

Solar Design Principles
Course Number: SE 120
Instructor: Newton, Thomas J. (203)838-0601 EXT.44
Department: Math, Science
Program: Solar Technology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $47.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

SOLAR POWER INSTITUTE

P O Box 450
Meriden, CT 06450
(203)235-2372 (060210)

Tuition (Full Time):

Resident: $540.00 Non Resident: $390.00

Solar Technical Training

National Solar Installation Training Course
Degree: Certificate
Contact: Roccapriore, Gerard (203)235-2372
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

National Solar Installation Training Course
Instructor: Roccapriore, Gerard (203)235-2372
Department: Central
Program: National Solar Installation Training Course
Student Level: College Graduate
Contact Hours: 36.0
Classroom: 24.0
Seminar: 2.0
Lab: 10.0
Offered: Day; Evening; Weekend
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Delaware

DELAWARE TECHNICAL AND COMMUNITY COLLEGE TERRY CAMPUS

1832 North DuPont Parkway
Dover, DE 19901
(302)678-5401 (011727)

Solar Technical Training

Energy Education and Awareness

Degree: Certificate
Public Education and Technical Engineering
Department: Cont. Education and Engineering Technol.
Contact: Roberts, H. Earl
Guccione, Sam
(302)678-5401

Program and Curriculum Related Courses

Alternate Forms of Energy

Course Number: XT 102
Instructor: Adams, Bob
(302)678-5401
Department: Continuing Education, Engineering Technology
Program: Energy Education and Awareness
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $42.00
Non Resident: $42.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Building Solar Equipment

Course Number: ST
Instructor: Adams, Bob
(302)678-5401
Roberts, H. Earl
Department: Continuing Education
Program: Energy Education and Awareness
Student Level: All Levels; Layperson
Contact Hours: 3.0
Workshop: 3.0
Offered: Day; Weekend
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Solar Energy Clinic

Course Number: ST
Instructor: Adams, Bob
(302)678-5401
Roberts, H. Earl
Department: Continuing Education
Program: Energy Education and Awareness
Student Level: All Levels; Layperson
Contact Hours: 3.0
Workshop: 3.0
Offered: Day; Weekend
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

ENERGY CONSERVATION AND SOLAR APPLICATION TRAINING CENTER

1703 School Lane
Wilmington, DE 19808
(302)995-6174 (090370)

Solar Technical Training

Solar Applications

Degree: Certificate
Design, Installation, Maintenance
Contact: Paul, Charles A.
(302)995-6174
Program Training: Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Design of Systems

Course Number: ACR 320 SH
Instructor: Paul, Charles A.
(302)995-6174
Program: Solar Applications
Student Level: Professional
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 30.0
Workshop: 10.0
Offered: Day
Course Fee: Resident: $350.00
Non Resident: $350.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Hot Water - Installation of Domestic Systems

Instructor: Paul, Charles A.
(302)995-6174
Program: Solar Applications
Student Level: Skilled Labor
Contact Hours: 8.0
Classroom: 8.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $5.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Systems Installation/Maintenance

Installation of Solar Heating Systems

Course Number: ACR 310 SH
Instructor: Paul, Charles A.
(302)995-6174
Program: Solar Applications
Student Level: Skilled Labor
Contact Hours: 24.0
Classroom: 8.0
Offered: Day
Course Fee: Resident: $240.00
Non Resident: $240.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation/Maintenance

Solar Heating of Buildings

Course Number: ACR 301 SH
Instructor: Paul, Charles A.
(302)995-6174
Program: Solar Applications
Student Level: Professional; Skilled Labor
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 61.0
Classroom: 45.0
Workshop: 16.0
Offered: Evening; Weekend
Course Fee: Resident: $180.00
Non Resident: $180.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Related Courses

Solar Installation Workshop for Vocational Educators

Instructor: Paul, Charles A.
(302)995-6174
Student Level: Skilled Labor
Academic Credits: 2.0 (Nine Terms Per Year)
Contact Hours: 40.0
Classroom: 12.0
Seminar: 6.0
Workshop: 24.0
Offered: Day
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Florida

DADE COMMUNITY COLLEGE AT MIAMI

Miami, FL 33176
(305)596-1211 (001506)

Curriculum with Solar Study

Air Conditioning Engineering Technology *

Degree: Associate Science
Department: Air Conditioning Engineering Technology
Contact: Succop, William (305)685-4564
Program Training: Architecture-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Energy Fundamentals *

Course Number: ETM 2706
Instructor: Cleland, George (305)685-4206
Department: Air Cond. Engineering Technology
Program: Air Conditioning Engineering Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating

Solar Energy Systems, Commercial

Course Number: ETM 2758 C
Instructor: Cleland, George (305)685-4206
Department: Air Cond. Engineering Technology
Program: Air Conditioning Engineering Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating

Solar Energy Systems, Residential *

Course Number: ETM 2756 C
Instructor: Cleland, George (305)685-4206
Department: Air Cond. Engineering Technology
Program: Air Conditioning Engineering Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating

FLORIDA SOLAR ENERGY CENTER

300 State Rd. 401
Cape Canaveral, FL 32920 (090100)

Solar Technical Training

Energy Education for Educators
Program Training: Solar Energy Education

The Sun At Work Information Lecture Series
Program Training: Do-It-Yourself/Home Installation

GULF COAST COMMUNITY COLLEGE

Panama City, FL 32401
(904)769-1551 (001490)

Curriculum with Solar Study

Solar Energy Solar Systems *

Degree: Associate Science
Department: Technical Education; Air Conditioning, Heating and Refrig.
Contact: Jones, Robert C. (904)769-1551

Program and Curriculum Related Courses

Solar Energy *

Course Number: ETM 1101
Instructor: Stotz, Robert (904)769-1551; Jones, Robert
Department: Technical Education, Air Conditioning, Heating, and Refrig, .
Program: Solar Energy Solar Systems *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 17.0; Hrs. per week: 3.0
Contact Hours: 51.0
Topics Covered Extensively: Components-Solar; Solar Home Construction

Solar Systems *

Course Number: ETM 2102
Instructor: Stotz, Robert (904)769-1551; Jones, Robert
Department: Technical Education, Air Conditioning, Heating, and Refrig, .
Program: Solar Energy Solar Systems *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 17.0; Hrs. per week: 3.0
Contact Hours: 51.0
Topics Covered Extensively: Heat and Energy Transfer; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

PENSACOLA JUNIOR COLLEGE

Pensacola, FL 32504
(904)476-5410 (001513)

Solar Technical Training

Solar Energy Technology *

Degree: Associate Energy Technology
Department: Industrial Technology
Contact: Lowery, Stanley (904)476-5410

Program and Curriculum Related Courses

Residential Design and Installation *

Instructor: Lowery, Stanley (904)476-5410
Department: Industrial Technology
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

PINELLAS VOCATIONAL TECHNICAL INSTITUTE

6100 154th Avenue North
Clearwater, FL 33520
(813)531-3531 (090320)

Tuition (Full Time):

Resident: $39.00 Non Resident: $88.00

Solar Technical Training

Air Conditioning and Plumbing

Degree: Certificate
Department: Air Conditioning
Contact: Sprecher, Clarence (813)531-3531 EXT.256
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy

Course Number: 721
Course Number: (813)531-3531 EXT.256
Department: Air Conditioning
Program: Air Conditioning and Plumbing
Student Level: Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 9.0; Hrs. per week: 10.0
Contact Hours: 86.0
Classroom: 50.0
Lab: 36.0

Offered: Day; Evening
Course Fee: Resident: $8.00
Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

SAINT AUGUSTINE TECHNICAL CENTER

Collins Avenue At Delmonte Drive
St. Augustine, FL 32084
(904)824-4401 (060261)

Tuition (Full Time):

Resident: $125.00

Solar Technical Training

Solar Energy Technology
Degree: Certificate
Department: St. Augustine Technical Center
Contact: Rublack, H. W.
(904)824-4401 EXT.62
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Technology
Course Number: 9923
Instructor: Stratmann, Charles
(904)824-4401 EXT.58
Program: Solar Energy Technology
Student Level: Skilled Labor
Duration: No. of weeks: 72.0
Hrs. per week: 30.0
Contact Hours: 2160.0
Classroom: 999.0
Lab: 999.0
Offered: Day
Course Fee: Resident: $245.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Thermochemical Conversion; Wind Energy Conversion Systems

SOUTH FLORIDA TECHNICAL INSTITUTE

201 W. Sunrise Blvd.
Ft. Lauderdale, FL 33311
(305)764-3432 (090020)

Solar Technical Training

*Energy Conversion Systems **
Department: Training
Contact: Linne, William L.
(305)764-3432
Program Training: Mechanical/Electrical Contracting-Solar Specialization; Solar System Installation-Residential

Program and Curriculum Related Courses

*Air Conditioning, Refrigeration and Major Appliances **
Instructor: Appleman, Louis
(305)764-3432
Department: Training
Program: Energy Conversion Systems *
Student Level: All Levels
Duration: No. of weeks: 5.0
Hrs. per week: 30.0
Contact Hours: 150.0
Classroom: 100.0
Lab: 50.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Georgia

DEKALB COMMUNITY COLLEGE

Clarkston, GA 30021
(404)292-3994 (001562)

Solar Technical Training

*Solar Heating **
Solar Heating
Department: Heating/Air Conditioning
Contact: Erickson, Glenn
(404)292-1525
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

*Solar Heating **
Instructor: Penland, William D.
(404)292-1525
Department: Heating/Air Conditioning
Program: Solar Heating *
Student Level: All Levels
Duration: No. of weeks: 14.0
Hrs. per week: 24.0
Contact Hours: 336.0
Classroom: 220.0
Lab: 116.0

Illinois

BELLEVILLE AREA COLLEGE

2500 Carlyle Road
Belleville, IL 62221
(618)235-2700 (001636)

Tuition (Full Time):
Resident: $14.00

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration

Degree: Associate, Certificate
Air Conditioning, Heating and Refrigeration
Department: Industrial
Contact: Becker, Albert
(618)235-2700 EXT.315
Program Training: Architecture-Solar Specialization; Solar System Installation-Residential; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Air Conditioning and Heating II

Course Number: ACHR 252
Instructor: Becker, Albert
(618)235-2700 EXT.315
Department: Industrial
Program: Air Conditioning, Heating and Refrigeration
Student Level: College Junior/Senior; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 96.0
Offered: Day; Evening
Course Fee: Resident: $14.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Design

Commercial Refrigeration I

Course Number: ACHR 202
Instructor: Becker, Albert
(618)235-2700 EXT.315
Department: Industrial
Program: Air Conditioning, Heating and Refrigeration
Student Level: College Junior/Senior; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 96.0
Offered: Day; Evening
Course Fee: Resident: $14.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques

Electrical Controls for Air Conditioning, Heating and Refrigeration

Course Number: ACHR 103
Instructor: Becker, Albert
(618)235-2700 EXT.315
Department: Industrial
Program: Air Conditioning, Heating and Refrigeration
Student Level: College Junior/Senior; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 96.0
Offered: Day; Evening
Course Fee: Resident: $14.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Photovoltaics and Solar Cells; Solar Cooling; Solar Heating; Solar Systems Design

Indiana

INDIANA VOCATIONAL TECHNICAL COLLEGE

8204 Highway 31 West
Sellersburg, IN 47172
(812)246-3301 (010109)

Tuition (Full Time):
Resident: $15.00 Non Resident: $25.00

Solar Related Courses

Solar Heating

Course Number: 7157
Instructor: Van Cleave, Billy J.
(812)246-3301 EXT.43
Department: Heating and Air Conditioning
Student Level: Professional; Skilled Labor; Layperson
Academic Credits: 2.0 (Quarter)
C.E.U.'s: 25.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 18.0
Seminar: 3.0
Workshop: 12.0
Offered: Day; Evening
Course Fee: Resident: $15.00
Non Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

INTERSTATE TECHNICAL INSTITUTE

210 Marciel Drive
Fort Wayne, IN 46825
(219)484-2504 (060369)

Curriculum with Solar Study

Heating, Air Conditioning and Refrigeration

Degree: Certificate
Department: Heating, Air Cond., and Refrigeration
Contact: Dammann, Frank
(219)484-2504
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial

Program and Curriculum Related Courses

Program: Heating, Air Conditioning and Refrigeration

ITT TECHNICAL INSTITUTE

1720 East 38th Street
Indianapolis, IN 46218
(317)545-2231 (060362)

Curriculum with Solar Study

Refrigeration, Heating and Air Conditioning

Degree: Certificate
Department: Refrigeration, Heating, and Air Cond.
Contact: Haag, J. A.
(317)545-2231 EXT.35

Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Program: Refrigeration, Heating and Air Conditioning

Iowa

DES MOINES AREA COMMUNITY COLLEGE

2006 Ankeny Boulevard
Ankeny, IA 50021
(515)964-6200 (008735)

Solar Technical Training

Solar Energy I and II *

Degree: Certificate
Adult Education
Department: Adult Education - Career Supplement
Contact: Rowe, Gordon N.
(515)964-6266
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy I - General Overview *

Course Number: BLDG: 519
Instructor: Sidles, Paul
(515)294-6844
Department: Adult Education
Program: Solar Energy I and II *
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 27.0
Field Trips: 3.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Energy II - Air Systems *

Course Number: BLDG: 522
Instructor: Hummell, Myron
(515)239-6000 EXT.383
Department: Adult Education
Program: Solar Energy I and II *
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 27.0
Field Trips: 3.0
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Sheet Metal Techniques; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Related Courses

Man and Energy

Course Number: PHYS 110
Instructor: Trumpy, Frank
(515)964-6530
Department: Math, Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Offered: Day
Course Fee: Resident: $45.00
Non Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Passive Solar Systems; Solar Heating

MUSCATINE COMMUNITY COLLEGE

152 Colorado Street
Muscatine, IA 52761
(319)263-8250 (001882)

Solar Curriculum

Solar Carpentry *

Degree: Certificate
Industrial Education
Department: Trades and Industry
Contact: Melander, Harry
(319)263-8250
Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Carpentry *

Instructor: Melander, Harry
(319)263-8250
Department: Trades
Program: Solar Carpentry *
Student Level: All Levels
Academic Credits: 61.0 (Quarter)
Duration: No. of weeks: 46.0
Hrs. per week: 28.0
Contact Hours: 1288.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water

Solar Technical Training

Use of Solar Energy

Degree: Certificate
Department: Community Education
Contact: Ohlendorf, Vernon
(319)263-8250 EXT.152
Program Training: Architecture-Solar Specialization; Engineering-Solar Specialization; Solar System Installation-Residential; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Use of Solar Energy Homes - Homeowners, Builders

Course Number: I031
Instructor: Ohlendorf, Vernon
(319)263-8250
Department: Community Education
Program: Use of Solar Energy
Student Level: All Levels; Layperson
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $18.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

SCOTT COMMUNITY COLLEGE

Belmont Road
Bettendorf, IA 52722
(319)359-7531 (004074)

Tuition (Full Time):

Resident: $150.00 Non Resident: $225.00

Solar Curriculum

Solar Energetics Technology

Degree: Associate
Department: Industrial Division
Contact: Hummel, Myron
(319)359-7531 EXT.260
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-

Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Energetics Technology
Instructor: Hummel, Myron
(319)359-7531 EXT.260
Department: Industrial Division
Program: Solar Energetics Technology
Duration: No. of weeks: 96.0
Hrs. per week: 30.0
Contact Hours: 2880.0
Classroom: 960.0
Workshop: 960.0
Lab: 960.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

WESTERN IOWA TECHNICAL COMMUNITY COLLEGE

P O Box 265
Sioux City, IA 51102
(712)276-0380 (007316)

Tuition (Full Time):

Resident: $140.00 Non Resident: $280.00

Curriculum with Solar Study

Solar Systems Technology
Degree: Associate
Applied Science
Contact: Forsling, Melvin
(712)276-0380 EXT.212
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Building Design for Solar Systems
Course Number: 274-3010
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Topics Covered Extensively: Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Integrated Solar Science I
Course Number: 274-3001
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Topics Covered Extensively: Solar Heating; Solar Systems Testing/Evaluation

Integrated Solar Science II
Course Number: 274-3006
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Topics Covered Extensively: Solar Cooling; Solar Heating; Thermochemical Conversion

Introduction to Solar Systems
Course Number: 274-3000
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy

Solar Feasibility Cost Analysis
Course Number: 274-3012
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Topics Covered Extensively: Solar Marketing/Economic Analysis

Solar System Maintenance
Course Number: 274-3013
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Topics Covered Extensively: Components-Solar; Plumbing Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Systems Application I
Course Number: 274-3015
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 11.0
Contact Hours: 132.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Materials; Solar Systems Design

Solar Systems Application II
Course Number: 274-3007
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 11.0
Contact Hours: 132.0
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Solar Systems Testing/Evaluation

Technical Mathematics
Course Number: 274-3016
Program: Solar Systems Technology
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Topics Covered Extensively: Solar Cooling; Solar Heating

Kansas

BARTON COUNTY COMMUNITY COLLEGE

Great Bend, KS 67530
(316)792-2701 (004608)

Solar Curriculum

Solar Energy Technology
Degree: Associate
Conventional Heat., Air Cond., and Solar Service Technician
Department: Solar
Contact: Greer, Neil
(319)792-2701 EXT.149
Program Training: Solar Energy Education; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Installation and Service
Course Number: 6940
Instructor: Greer, Neil
(319)792-2701 EXT.149
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Course Fee: Resident: $55.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Technology and Applied Science I
Course Number: 6900
Instructor: Greer, Neil
(319)792-2701 EXT.149
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Course Fee: Resident: $55.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Solar Technology and Applied Science II
Course Number: 6902
Instructor: Greer, Neil
(319)792-2701 EXT.149
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Course Fee: Resident: $55.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Technology and Heat Pumps
Course Number: 6930
Instructor: Greer, Neil
(319)792-2701 EXT.149
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Course Fee: Resident: $55.00
Prerequisites: Yes

Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

GARDEN CITY COMMUNITY JUNIOR COLLEGE

801 Campus Drive
P O Box 977
Garden City, KS 67846
(316)276-7611 (001919)

Tuition (Full Time):

Resident: $24.00 Non Resident: $500.00

Solar Related Courses

Alternate Solar Energy

Course Number: 711/501
Instructor: Hundley, Gerald W. (316)276-7611
Department: Industrial Education, Agriculture
Student Level: College Junior/Senior; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 17.0
Hrs. per week: 4.0
Contact Hours: 68.0
Classroom: 44.0
Lab: 24.0
Offered: Day; Evening
Course Fee: Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Solar Law/Legislation

Solar Energy

Course Number: 274/083
Instructor: Hundley, Gerald (316)276-7611
Department: Industrial Education
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 17.0
Hrs. per week: 4.0
Contact Hours: 68.0
Classroom: 34.0
Lab: 34.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Law/Legislation; Solar Systems Design; Wind Energy Conversion Systems

KANSAS TECHNICAL INSTITUTE

2409 Scanlan Avenue
Salina, KS 67401
(913)825-0275 (004611)

Tuition (Full Time):

Resident: $173.00 Non Resident: $463.00

Curriculum with Solar Study

Solar Option

Degree: Associate Mechanical Engineering Technology
Department: Mechanical Engineering
Contact: Ashburn, M. H. (913)825-0275 EXT.29
Program Training: Engineering-Solar Specialization; Solar System Installation-Residential; Mechanical/Electrical Contracting-Solar Specialization; Solar System Installation-Industrial/Commercial; General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Introduction to Solar Energy Utilization

Course Number: MT 1012
Instructor: Ashburn, M. H. (913)825-0275 EXT.29
Department: Mechanical Engineering Technology
Program: Solar Option
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $76.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Solar System Design Technology I

Course Number: MT 2812
Instructor: Ashburn, M. H. (913)825-0275 EXT.29
Department: Mechanical Engineering Technology
Program: Solar Option
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 16.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $33.00
Non Resident: $76.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Systems Design Technology II

Course Number: MT 2844
Instructor: Ashburn, M. H. (913)825-0275 EXT.29
Department: Mechanical Engineering Technology
Program: Solar Option
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $140.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance

UNIVERSITY FOR MAN

1221 Thurston Avenue
Manhattan, KS 66502
(913)532-5866 (090150)

Solar Technical Training

Appropriate Technology

Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Program: Appropriate Technology

Maine

CORNERSTONES, WING SCHOOL OF SHELTER TECHNOLOGY

54 Cumberland St.
Brunswick, ME 04011 (090090)

Solar Technical Training

Cornerstones Owner - Builder School

Degree: Certificate Solar Owner-Builder
Contact: Karg, Rick (207)729-0540
Program Training: Architecture-Solar Specialization; Solar System Installation-Residential; General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Advanced New House

Course Number: B
Instructor: Wing, Charles (207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: Professional
Academic Credits: 3.0
Duration: No. of weeks: 3.0
Hrs. per week: 35.0
Contact Hours: 105.0
Classroom: 60.0
Lab: 45.0
Offered: Evening
Course Fee: Resident: $350.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Systems Design

Energy Auditing

Course Number: G
Instructor: Wing, Charles (207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: Professional
Contact Hours: 48.0
Classroom: 32.0
Job: 8.0
Lab: 8.0
Offered: Day; Weekend
Course Fee: Resident: $350.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Passive Solar Systems

House Building For Women

Course Number: D
Instructor: Wing, Susan (207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: All Levels; Layperson
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 60.0
Job: 60.0
Offered: Day
Course Fee: Resident: $350.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Plumbing Techniques; Solar Heating; Solar Home Construction

Passive Solar Greenhouses

Course Number: E
Instructor: Karg, Rick (207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: All Levels; Layperson

Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 20.0
Job: 20.0
Offered: Day
Course Fee: Resident: $150.00
Topics Covered Extensively: Greenhouse Techniques; Passive Solar Systems; Solar Heating; Solar Systems Design

Passive Solar House Design and Construction
Course Number: A
Instructor: Wing, Charles
(207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: All Levels; Layperson
Academic Credits: 3.0
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 60.0
Job: 60.0
Offered: Day; Evening
Course Fee: Resident: $350.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction

Retrofitting Existing Structures
Course Number: C
Instructor: Karg, Rick
(207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: All Levels; Layperson
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 60.0
Job: 60.0
Offered: Day
Course Fee: Resident: $350.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Greenhouse Techniques; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Design Workshop
Course Number: F
Instructor: Karg, Rick
(207)729-0540
Program: Cornerstones Owner - Builder School
Student Level: Skilled Labor
Offered: Evening
Course Fee: Resident: $200.00
Topics Covered Extensively: Solar Systems Design

Maryland

RETS ELECTRONIC SCHOOL

511 Russell Street
Baltimore, MD 21230
(301)727-6863 (090050)

Tuition (Full Time):

Resident: $3,795.00

Curriculum with Solar Study

Refrigeration, Climate Control and Clean Air
Degree: Certificate
Department: BEI Division
Contact: Tickler, Earl M.
(301)727-6863
Program Training: Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Refrigeration, Climate Control, and Clean Air
Instructor: Tickler, Earl M.
(301)727-6863
Department: BEI Division
Program: Refrigeration, Climate Control and Clean Air
Student Level: All Levels
Duration: No. of weeks: 48.0
Hrs. per week: 30.0
Contact Hours: 1440.0
Classroom: 480.0
Seminar: 480.0
Workshop: 480.0
Offered: Day
Course Fee: Resident: $3,795.00
Prerequisites: No

Massachusetts

BLUE HILLS REGIONAL TECHNICAL INSTITUTE

100 Randolph Street
Canton, MA 02021
(617)828-5800 (005523)

Tuition (Full Time):

Resident: $275.00

Solar Related Courses

Solar Heating Systems Design
Course Number: HV 35
Instructor: O'Leary, Timothy J.
(617)828-5800 EXT.35
Department: Heating, Vent. and Air Cond. Tech.
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 67.5
Classroom: 24.0
Lab: 33.5
Offered: Day
Course Fee: Resident: $44.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

CAPE COD COMMUNITY COLLEGE

Route 132
West Barnstable, MA 02668
(617)362-2131 (002168)

Tuition (Full Time):

Resident: $160.00 Non Resident: $450.00

Curriculum with Solar Study

Energy Systems Technology
Degree: Associate
Science and Technical
Department: Math; Science; Engineering and Industrial Related Tech.
Contact: Panitz, Ted
(617)362-2131 EXT.456
Program Training: Solar Energy Administration/Policy; General Contracting-Specialization in Solar Design/Installation

Program and Curriculum Related Courses

Energy Systems I - Survey of Energy Alternatives
Course Number: TE 130
Instructor: Panitz, Ted
(617)362-2131 EXT.456
Department: Industry Related Technologies
Program: Energy Systems Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 60.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0

Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Energy Systems II - Solar Energy I
Course Number: TE 131
Instructor: Panitz, Ted
(617)362-2131 EXT.456
Department: Industry Related Technologies
Program: Energy Systems Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 60.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design

Energy Systems III - Solar Energy II
Course Number: TE 132
Instructor: Panitz, Ted
(617)362-2131 EXT.456
Department: Industry Related Technologies
Program: Energy Systems Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor
Academic Credits: 4.0 (Semester)
C.E.U.'s: 60.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

FRANKLIN INSTITUTE OF BOSTON

Boston, MA 02116
(617)423-4630 (002151)

Solar Related Courses

Solar and Alternative Energy Systems Design
Course Number: ES 426
Instructor: Rowe, William
(617)423-4630
Department: Energy System Engineering
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 7.0
Contact Hours: 105.0
Classroom: 60.0
Lab: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/ Legislation; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

HEARTWOOD OWNER-BUILDER SCHOOL INCORPORATED

Johnson Road
Washington, MA 01235
(413)623-6677 (090210)

Tuition (Full Time):

Resident: $500.00 Non Resident: $300.00

Solar Related Courses

Designing and Building Your Own Energy Efficient Home
Instructor: Velonis, Elias
(413)623-6677
Student Level: Layperson
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 60.0
Job: 60.0
Offered: Day; Evening
Course Fee: Resident: $500.00
Non Resident: $300.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Heating; Solar Home Construction; Solar Systems Design

NEW ENGLAND FUEL INSTITUTE

20 Summer Street
Watertown, MA 02172
(617)924-1000 (090230)

Solar Technical Training

Solar Heating Installation and Maintenance
Degree: Certificate
Department: Education
Contact: Zavino, Ralph
(617)924-1000
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Heating Installation and Maintenance Course
Instructor: Tavino, Ralph
(617)924-1000
Department: Education
Program: Solar Heating Installation and Maintenance
Student Level: Professional; Skilled Labor
Duration: No. of weeks: 4.0
Hrs. per week: 40.0
Contact Hours: 160.0
Classroom: 80.0
Lab: 80.0
Offered: Day; Evening
Course Fee: Resident: $500.00
Non Resident: $500.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Heating Technology Course
Instructor: Taylor, Robin
(617)924-1000
Department: Education
Program: Solar Heating Installation and Maintenance
Student Level: Professional; Skilled Labor
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

NORTHEAST INSTITUTE OF INDUSTRIAL TECHNOLOGY

41 Phillips Street
Boston, MA 02114
(617)523-2813 (090060)

Tuition (Full Time):

Resident: $860.00

Solar Technical Training

Installing Solar Water Heaters
Degree: Certificate
Solar Water Systems
Department: Air Conditioning and Refrigeration
Contact: Galvin, G. M.
(617)523-2813
Program Training: Architecture-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Installing Solar Water Heating
Instructor: Smith, Robert O.
(617)523-2813
Lannon, E.
Department: Air Cond., Refrigeration Technol.
Program: Installing Solar Water Heaters
Student Level: Managerial; Skilled Labor
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $125.00
Prerequisites: No
Topics Covered Extensively: Solar Domestic Hot Water

Michigan

FERRIS STATE COLLEGE

Big Rapids, MI 49307
(616)796-9971 (002260)

Tuition (Full Time):
Resident: $297.00 Non Resident: $710.00

Curriculum with Solar Study

Refrigeration, Heating and Air Conditioning Technology

Degree: Associate
Refrigeration, Heating, and Air Conditioning
Department: Technical and Applied Arts; Construction
Contact: Shane, James B.
(616)796-9971
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Advanced Air Conditioning

Course Number: RHA 263
Instructor: Nott, Joe
(616)796-9971
Department: Construction
Program: Refrigeration, Heating and Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 20.0
Contact Hours: 200.0
Classroom: 50.0
Lab: 150.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Heating

Course Number: RHA 262
Instructor: Stevens, Russ
(616)796-9971
Department: Construction
Program: Refrigeration, Heating and Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 20.0
Contact Hours: 200.0
Classroom: 50.0
Lab: 150.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Summer Air Conditioning

Course Number: RHA 261
Instructor: Lawrence, Fred
(616)796-9971
Shaw, Dick
Department: Construction
Program: Refrigeration, Heating and Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 20.0
Contact Hours: 200.0
Classroom: 50.0
Lab: 150.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Related Courses

Energy Conservation in Building Design

Course Number: A-D 302
Instructor: Kantor, Mel
(616)796-9971
Department: Construction
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $89.00
Non Resident: $213.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction

Energy Use and Conservation

Course Number: BCT 302
Instructor: Erion, John
(616)796-9971
Department: Construction
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $118.00
Non Resident: $284.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Solar Home Construction

GENERAL MOTORS INSTITUTE

Flint, MI 48502 (002262)

Solar Technical Training

Solar Energy

Degree: Certificate
Continuing Engineering Education
Department: Mechanical Engineering
Contact: Brink, Michael
(313)766-6047
Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Solar Energy

Course Number: EIS 0310
Instructor: Brink, Michael
(313)766-6047
Department: Mechanical Engineering
Program: Solar Energy
Student Level: College Graduate
Duration: No. of weeks: 1.0
Hrs. per week: 24.0
Contact Hours: 24.0
Classroom: 21.0
Lab: 3.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Building and Facility Design

Course Number: L 500
Instructor: Brink, Michael
(313)766-6047
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating

GRAND RAPIDS JUNIOR COLLEGE

143 Bostwick, NE
Grand Rapids, MI 49503
(616)456-4895 (002267)

Solar Related Courses

Solar Dwelling Design Concepts

Course Number: TE 243
Instructor: Larson, L.
(616)456-4860
Department: Technology
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 28.0
Independent Study: 16.0
Lab: 4.0
Offered: Day; Evening
Course Fee: Resident: $51.00
Non Resident: $85.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Systems - Collector Design and Construction

Course Number: TE 245
Instructor: Larson, L.
(616)456-4860
Department: Technology
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Job: 16.0
Lab: 32.0
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Theory and Design

Course Number: TE 142
Instructor: Larson, L.
(616)456-4860
Department: Technology
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson

Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 26.0
Independent Study: 2.0
Lab: 4.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $34.00
Non Resident: $57.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water

JORDAN COLLEGE

360 West Pine Street
Cedar Springs, MI 49319
(616)696-1180 (029091)

Tuition (Full Time):

Resident: $600.00 Non Resident: $600.00

Solar Curriculum

Alternate Energy

Degree: Bachelor
Alternate Energy
Department: Alternate Energy
Contact: Slykhouse, Thomas
(616)696-1180
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

Program and Curriculum Related Courses

Advanced Design of Alternate Energy Systems

Course Number: AE 470
Instructor: Slykhouse, Thomas
(616)453-5417
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Seminar: 5.0
Independent Study: 10.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Process Heat; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation; Thermochemical Conversion

Biomass

Course Number: 240
Instructor: Martin, Alan O.
(616)696-1180
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 12.0
Field Trips: 3.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems

Design of Alternate Energy Systems

Course Number: 270
Instructor: Gates, Timothy
(616)696-1180
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 12.0
Field Trips: 3.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Hybrid Systems; Solar Marketing/Economic Analysis; Solar Systems Design

Geo-Physical Energies

Course Number: 230
Instructor: Gates, Tony
(616)696-1180
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 12.0
Field Trips: 3.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Solar I

Course Number: 200
Instructor: Bregg, Gary
(616)696-1180
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 12.0
Field Trips: 3.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Solar II

Course Number: AE 300
Instructor: Bregg, Gary
(616)453-5417
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 20.0
Job: 15.0
Lab: 10.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Wind Energy Conversion Systems

Course Number: 210
Instructor: Bregg, Gary
(616)696-1180
Department: Alternate Energy
Program: Alternate Energy
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 12.0
Field Trips: 3.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Storage Systems; Wind Energy Conversion Systems

Curriculum with Solar Study

Appropriate Technology

Degree: Bachelor
Alternate Energy
Department: Environmental Science
Contact: Lewis, Russell E.
(616)696-2230
Program Training: Solar Energy Education; Solar Energy Administration/Policy

Program and Curriculum Related Courses

Appropriate Technology

Course Number: ID 430
Instructor: Lewis, Russell
(616)696-2230
Department: Inter-Departmental Offering
Program: Appropriate Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 35.0
Independent Study: 10.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology

Energy Efficient Construction Design

Degree: Associate
Applied Science
Department: Environmental Science
Contact: Lewis, Russell E.
(616)696-2230
Program Training: Architecture-Solar Specialization; Do-It-Yourself/Home Installation

Environmental Science

Degree: Associate
Environmental Science
Department: Environmental Science
Contact: Lewis, Russell E.
(616)696-2230
Program Training: Solar Energy Administration/ Policy

Farm Management

Degree: Associate
Agriculture
Department: Agriculture
Contact: Lewis, Russell E.
(616)696-2230

MID MICHIGAN COMMUNITY COLLEGE

Harrison, MI 48625
(517)386-7792 (006768)

Tuition (Full Time):

Resident: $45.00 Non Resident: $63.00

Solar Related Courses

Alternate Energy Sources

Course Number: PSC 151
Instructor: Derscheid, Larry
(517)386-7792 EXT.248
Department: Physical Science
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 42.0
Independent Study: 3.0
Lab: 3.0
Offered: Day; Evening
Course Fee: Resident: $45.00
Non Resident: $63.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

Solar Heating Systems

Course Number: HRA 175
Instructor: Hohman, John E.
(517)386-7792 EXT.294
Department: Vocational
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Evening
Course Fee: Resident: $45.00
Non Resident: $63.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Process Heat; Solar Domestic Hot Water

Minnesota

RED WING AREA VOCATIONAL TECHNICAL INSTITUTE

Pioneer Road & Highway 58
Red Wing, MN 55066
(612)388-8271 (091120)

Solar Technical Training

Solar Energy Technology

Degree: Certificate
Solar Energy Technology
Department: Solar Energy
Contact: Moore, Gary
(612)388-8271
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Program: Solar Energy Technology

Wind Energy Systems Technology

Degree: Certificate
Wind Energy Systems Technology
Department: Wind Energy; (612)388-8271
Program Training: Solar Energy Education; Engineering-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

SAINT PAUL TECHNICAL VOCATIONAL INSTITUTE

235 Marshall Avenue
St. Paul, MN 55102
(612)221-1335 (060576)

Curriculum with Solar Study

Construction Technology

Degree: Certificate
Construction Tech.
Department: Construction Technology
Contact: Richter, George
(612)221-1375
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

Program and Curriculum Related Courses

Program: Construction Technology

Industrial Controls

Degree: Certificate
Electronics
Contact: Richter, George
(612)221-1375
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

Steamfitting - Pipefitting

Degree: Certificate
Steamfitter - Pipefitter
Contact: Goulet, John
(612)221-1375
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

Solar Related Courses

Energy Code for Building Inspectors, Contractors, and Tradesmen

Course Number: 1-04-728.2
Instructor: Nelson, Robert
(612)221-1307
Department: Construction Technology
Student Level: Managerial
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Lab: 10.0
Offered: Evening
Course Fee: Resident: $26.00
Non Resident: $26.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Materials

Mississippi

NORTHWEST MISSISSIPPI JUNIOR COLLEGE

Highway 51 North
Senatobia, MS 38668
(601)562-5262 (002427)

Tuition (Full Time):
Resident: $185.00 Non Resident: $485.00

Solar Curriculum

Solar and Environmental Engineering
Degree: Associate
Science
Department: Science
Contact: Ross, J. D.
(601)562-5262 EXT.227
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Fundamentals of Solar Energy
Course Number: EGR 1113
Instructor: Ross, J. D.
(601)562-5262 EXT.227
Department: Science
Program: Solar and Environmental Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $54.00
Non Resident: $135.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water

Solar Devices
Course Number: EGR 1123
Instructor: Ross, J. D.
(601)562-5262 EXT.227
Department: Science
Program: Solar and Environmental Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $135.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Photoconversion; Photovoltaics and Solar Cells

Solar Energy Systems I
Course Number: EGR 2513
Instructor: Ross, J. D.
(601)562-5262 EXT.227
Department: Science
Program: Solar and Environmental Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Independent Study: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $135.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems

Solar Energy Systems II
Course Number: EGR 2523
Instructor: Ross, J. D.
(601)562-5262 EXT.227
Department: Science
Program: Solar and Environmental Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Independent Study: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $135.00
Prerequisites: Yes
Topics Covered Extensively: Hybrid Systems; Solar Systems Design; Solar Systems Testing/Evaluation

Nebraska

METROPOLITAN TECHNICAL COMMUNITY COLLEGE

30th and Fort
Omaha, NE 68137
(402)457-5100 (012586)

Tuition (Full Time):
Resident: $23.00 Non Resident: $23.00

Solar Technical Training

Survey of Solar Energy
Degree: Certificate
Department: Continuing Education
Contact: Kafka, James
(402)457-5100 EXT.206
Program Training: Solar Energy Education; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Introduction to Solar Energy and Alternate Energies
Instructor: Reinmuth, Larry
(402)457-5100 EXT.190
Department: Continuing Education
Program: Survey of Solar Energy
Student Level: Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Course Fee: Resident: $23.00
Non Resident: $23.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Nevada

CLARK COUNTY COMMUNITY COLLEGE

Las Vegas, NV 89030
(702)643-6060 (010362)

Solar Curriculum

Solar Energy Technology *

Degree: Associate
Solar Energy Technology/
Applied Science
Department: Science
Contact: Comarow, David
(702)843-6060
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Advanced Solar Energy Technology *

Course Number: SOL 201
Instructor: Comarow, David
(702)643-6060
Department: Science
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Solar Marketing/Economic Analysis; Materials; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Introduction to Solar Technology *

Course Number: SOL 119
Instructor: Comarow, David
(702)643-6060
Department: Science
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 9.0
Contact Hours: 135.0
Classroom: 90.0
Lab: 45.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Passive Solar Heating and Cooling Technology *

Course Number: SOL 130
Instructor: Comarow, David
(702)643-6060
Department: Science
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Home Construction; Solar Heating; Solar Cooling

Practicum in Solar Technology *

Course Number: SOL 1210
Instructor: Comarow, David
(702)643-6060
Department: Science
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 9.0
Contact Hours: 135.0
Job: 135.0
Topics Covered Extensively: Solar Domestic Hot Water; Solar Swimming Pool Heating; Process Heat; Solar Heating; Solar Cooling

Solar Energy Technology - Home Owner *

Course Number: ENV 118B
Instructor: Comarow, David
(702)643-6060
Department: Science
Program: Solar Energy Technology *
Student Level: All Levels
Duration: No. of weeks: 1.0
Hrs. per week: 15.0
Contact Hours: 15.0
Classroom: 15.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

New Hampshire

INSTITUTE FOR APPROPRIATE TECHNOLOGY

15 Garrison Avenue
Durham, NH 03824
(603)862-2764 (090250)

Tuition (Full Time):

Resident: $1,920.00 Non Resident: $1,920.00

Solar Related Courses

Passive Solar Greenhouses

Instructor: Carter, Valerie
(603)862-2764
Student Level: College Graduate
Academic Credits: 4.0 (Monthly Sessions)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 7.5
Contact Hours: 75.0
Classroom: 25.0
Job: 50.0
Offered: Day
Course Fee: Resident: $450.00
Non Resident: $450.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems

Solar Hot Water Systems

Instructor: Carter, Valerie
(603)862-2764
Student Level: College Graduate
Academic Credits: 4.0 (Monthly Sessions)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 7.5
Contact Hours: 75.0
Classroom: 25.0
Job: 50.0
Offered: Day

NEW HAMPSHIRE VOCATIONAL TECHNICAL COLLEGE

Manchester, NH 03102
(603)668-6706 (002582)

Solar Technical Training

Solar Energy Certificate Program

Solar Energy
Department: Evening Extension
Contact: Magnon, David
(603)668-6706
Program Training: Solar Energy Education; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Conservation - Principles and Practice

Course Number: M 941EV
Instructor: Magnon, David
(603)668-6706
Department: Evening
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Topics Covered Extensively: Energy Conservation

Energy Survey and Alternative Systems

Course Number: M 940EV

Instructor: Magnon, David (603)668-6706
Department: Evening
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0 Hrs. per week: 3.0
Contact Hours: 36.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems

Principles of Solar Design
Course Number: M 943EV
Instructor: Magnon, David (603)668-6706
Department: Evening Extension
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0 Hrs. per week: 3.0
Contact Hours: 36.0
Topics Covered Extensively: Solar Home Construction; Solar Systems Design

Solar Construction and Installation Techniques
Course Number: M 944EV
Instructor: Magnon, David (603)668-6706
Department: Evening Extension
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 12.0 Hrs. per week: 4.0
Contact Hours: 48.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Solar Energy - A Prime Energy Resource
Course Number: M 942EV
Instructor: Magnon, David (603)668-6706
Department: Evening Extension
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 12.0 Hrs. per week: 4.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Heating

Solar Heating Systems
Course Number: 404
Instructor: Byrne, E.
Department: Heat., Ventilating, and Air Cond.
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 12.0 Hrs. per week: 4.0
Contact Hours: 48.0
Topics Covered Extensively: Introduction to Solar Energy; Plumbing Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating

Solar Seminar - Integrated Projects
Course Number: M945EV
Instructor: Magnon, David (603)668-6706
Department: Evening Extension
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0 Hrs. per week: 3.0
Contact Hours: 36.0

New Jersey

BERGEN COMMUNITY COLLEGE

400 Paramus Road
Paramus, NJ 07652
(201)447-1500 (004736)

Tuition (Full Time):
Resident: $0.00 Non Resident: $0.00

Solar Technical Training

Energy Conservation - Solar Technicians Training Program
Degree: Certificate
Department: Community Services
Contact: Morgan, Charles T. (201)447-1940
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Energy Conservation, Solar Technicians Training Program
Course Number: 5168
Instructor: Torpey, James (201)447-1940
Department: Community Services
Program: Energy Conservation - Solar Technicians Training Program
Student Level: Skilled Labor
Duration: No. of weeks: 20.0 Hrs. per week: 30.0
Contact Hours: 600.0
Classroom: 200.0
Workshop: 100.0
Job: 200.0
Lab: 100.0
Offered: Day
Course Fee: Resident: $0.00 Non Resident: $0.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Energy Technician Training Program
Degree: Certificate Solar Energy - Energy Conservation
Department: Community Services
Contact: Torpey, James (201)447-1500 EXT.231
Program Training: General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Energy For the Home
Instructor: Torpey, James (201)447-1500 EXT.231
Department: Community Services
Program: Energy Technician Training Program
Student Level: Professional; Skilled Labor; Layperson
Duration: No. of weeks: 8.0 Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 10.0
Lab: 6.0
Offered: Evening
Course Fee: Resident: $30.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Materials; Passive Solar Systems; Components-Solar; Greenhouse Techniques; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating

CAPE MAY COUNTY VOCATIONAL TECHNICAL CENTER

Crest Haven Road
Cape May Court House, NJ 08210
(609)465-3064 (060686)

Solar Related Courses

Introduction to Energy Resources: Wind, Solar
Instructor: Siefken, Herbert (609)465-3064
Department: Mechanical-Electrical Technology
Duration: No. of weeks: 10.0 Hrs. per week: 15.0
Contact Hours: 150.0
Classroom: 75.0
Independent Study: 25.0
Lab: 50.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Law/Legislation; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

ESSEX COUNTY TECHNICAL CAREER CENTER

91 West Market St.
Newark, NJ 07103 (090390)

Solar Related Courses

Solar Energy
Instructor: Williams, Wayne R. (201)622-1100 EXT.256
Department: Heating, Refrig. & Air Conditioning
Student Level: Skilled Labor
Contact Hours: 500.0
Classroom: 250.0
Workshop: 125.0
Lab: 125.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling

SOUTHERN NEW JERSEY OIC

Camden, NJ 08104 (090070)

Solar Technical Training

Solar Energy Unit Installer Program *

Contact: Keene, Joseph P.
(609)944-2545

Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Energy Installer *

Instructor: Keene, Joseph P.
(609)966-2545
Program: Solar Energy Unit Installer Program *
Student Level: All Levels
Duration: No. of weeks: 26.0
Hrs. per week: 5.0
Contact Hours: 130.0
Topics Covered Extensively: Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

UNION COUNTY TECHNICAL INSTITUTE

Scotch Plains, NJ 07076
(201)889-2000 (006139)

Solar Related Courses

Solar Heating I *

Course Number: HV 201-71
Instructor: Mai, Frank
(201)889-2000
Department: Heating, Ventilating, Air Cond.
Student Level: All Levels
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Plumbing Techniques; Sheet Metal Techniques; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

New Mexico

COLLEGE OF SANTA FE

St. Michaels Drive
Santa Fe, NM 87501
(505)982-6011 (002649)

Tuition (Full Time):

Resident: $35.00 Non Resident: $35.00

Solar Technical Training

Solar Energy

Degree: Certificate
Department: Continuing Education
Contact: Osborne, Alan C.
(505)982-6295
Program Training: Scientific Research and Development in Solar Energy; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Electricity From the Wind

Instructor: Dankoff, Mark
(505)471-2573
Department: Continuing Education
Program: Solar Energy
Student Level: All Levels; Layperson
C.E.U.'s: 1.5
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 12.0
Job: 4.0
Offered: Evening
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Solar Adobe Construction

Instructor: Chalom, Mark
(505)583-2356
Wilson, Quentin
Department: Continuing Education
Program: Solar Energy
Student Level: All Levels; Layperson
C.E.U.'s: 2.5
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Evening
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Plumbing Techniques; Process Heat; Solar Heating; Solar Home Construction

Solar Energy

Instructor: NM Solar Energy Assoc.
(505)983-1006
Department: Continuing Education
Program: Solar Energy
Student Level: All Levels; Layperson
C.E.U.'s: 1.5
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 12.0
Job: 4.0
Offered: Evening
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Law/Legislation

Solar Greenhouses

Instructor: Yanda, Bill
(505)983-1006
Department: Continuing Education
Program: Solar Energy
Student Level: All Levels; Layperson
C.E.U.'s: 1.5
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 12.0
Job: 4.0
Offered: Evening
Course Fee: Resident: $35.00
Non Resident: $35.00
Topics Covered Extensively: Energy Storage Systems; Greenhouse Techniques; Photoconversion

NEW MEXICO HIGHLANDS UNIVERSITY

Las Vegas, NM 87701
(505)425-7511 (002653)

Solar Technical Training

Solar Greenhouse Construction *

Contact: Martinez, E. Eloy
(505)425-7511

Program and Curriculum Related Courses

Solar Greenhouse Construction *

Instructor: Coca, Michael
Department: Industrial Education
Program: Solar Greenhouse Construction *
Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Home Construction; Solar Heating; Solar Cooling

Solar Related Courses

Introduction to Solar Heating *

Course Number: 135
Instructor: Yarger, Frederick L.
(505)425-7511
Department: Physics
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction

NEW MEXICO STATE UNIVERSITY

P O Box 3450
Las Cruces, NM 88003
(505)646-2035 (002657)

Tuition (Full Time):

Resident: $304.00 Non Resident: $872.00

Curriculum with Solar Study

Mechanical Engineering

Degree: Doctorate, Master
Mechanical Engineering

Department: Mechanical Engineering
Contact: Smith, Phillip R.
(505)646-3501
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Direct Energy Conversion
Course Number: ME 465
Instructor: Smith, P. R.
(505)646-3501
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

Introduction to Solar Energy
Course Number: ME 555
Instructor: Smith, P. R.
(505)646-3501
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy Utilization
Course Number: ME 455
Instructor: Smith, P. R.
(505)646-3501
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Heating and Cooling
Course Number: ME 565
Instructor: Smith, P. R.
(505)646-3501
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Topics Covered Extensively: Solar Cooling; Solar Heating

Solar Thermal Power
Course Number: ME 575
Instructor: Smith, P. R.
(505)646-3501
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Topics Covered Extensively: Distributed Solar Power Systems

Solar Technical Training

Heating, Refrigeration, Ventilation, and Air Conditioning
Degree: Certificate
Trades and Industrial Education
Department: Trades
Contact: Smith, Pete
(505)646-3211
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Program: Heating, Refrigeration, Ventilation, and Air Conditioning

VOCATIONAL TECHNICAL INSTITUTE

11810 Central Avenue, SE
Albuquerque, NM 87111
(505)293-8297 (060695)

Tuition (Full Time):

Resident: $4,000.00

Curriculum with Solar Study

Architectural Solar Unit
Degree: Certificate
Department: Drafting
Contact: Hill, Arlette
(505)293-8297
Program Training: Architecture-Solar Specialization

Program and Curriculum Related Courses

Drafting and Design of Solar Energy Homes
Program: Architectural Solar Unit
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 4.0
Hrs. per week: 24.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

New York

ADIRONDACK COMMUNITY COLLEGE

Glens Falls, NY 12801
(518)793-4491 (002860)

Solar Technical Training

*Seminar in Solar Energy **
Department: Occupational Education
Contact: Harrington, Charles
(518)747-0274
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Seminar in Solar Energy **
Course Number: TECH 191
Instructor: Harrington, Charles
(518)747-0274
Department: Occupational Education
Program: Seminar in Solar Energy *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 17.0
Hrs. per week: 6.0
Contact Hours: 102.0
Classroom: 51.0
Lab: 51.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

CAYUGA COUNTY COMMUNITY COLLEGE

Auburn, NY 13021
(315)253-7345 (002861)

Solar Technical Training

*Solar Energy Technology **
Degree: Certificate
Solar Energy Technology
Department: Science
Contact: Komanecky, William
(315)253-7345
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

*Solar Heating Energy **
Instructor: Simkin, Robert
(315)364-8065
Department: Science
Program: Solar Energy Technology *
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Heating

CITY UNIVERSITY OF NEW YORK, NEW YORK CITY COMMUNITY COLLEGE

300 Jay Street
(212)643-4033 (002696)

Tuition (Full Time):

Resident: $387.50 Non Resident: $712.00

Curriculum with Solar Study

Environmental Control Technology

Degree: Associate Applied Science
Department: Technology
Contact: Lomask, Samuel (212)239-1696 EXT.1658

Program Training: Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Environmental Design I

Course Number: EC 110
Instructor: Farkas, Stanley (212)239-1662
Department: Environmental Control Technology
Program: Environmental Control Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $105.00 Non Resident: $165.00
Prerequisites: No

Environmental Design Laboratory

Course Number: EC 111
Instructor: Farkas, Stanley (212)239-1662
Department: Environmental Control Technology
Program: Environmental Control Technology
Student Level: College Freshman/ Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $105.00 Non Resident: $165.00
Prerequisites: No
Topics Covered Extensively: Materials; Plumbing Techniques

Environmental System Design

Course Number: EC 430
Instructor: Finger, A. (212)239-1658
Department: Environmental Control Technology
Program: Environmental Control Technology
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Offered: Day; Evening
Course Fee: Resident: $210.00 Non Resident: $330.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Hydronic Systems Design

Course Number: EC 220
Instructor: Pita, Edward (212)239-1662
Department: Environmental Control Technology
Program: Environmental Control Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $140.00 Non Resident: $220.00
Prerequisites: Yes

MOHAWK VALLEY COMMUNITY COLLEGE

1101 Sherman Drive
Utica, NY 13501
(315)792-5500 (002871)

Tuition (Full Time):

Resident: $250.00 Non Resident: $750.00

Solar Technical Training

Solar Energy Technology

Degree: Certificate Solar Energy Technology
Department: Physics and Engineering Science
Contact: Dunning, Francis (315)792-5514

Program Training: General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Solar Energy I, Energy and Energy Conservation

Course Number: 2990
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $51.00 Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy II, Installation

Course Number: D2986
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $68.00 Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar III, Solar Energy Systems Design and Analysis

Course Number: 2991
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $68.00 Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar IV, Alternate Energy Sources

Course Number: 2994
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $68.00 Non Resident: $204.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Greenhouse Techniques; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Solar System Fabrication I

Course Number: 2992
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0

Contact Hours: 50.0
Classroom: 10.0
Workshop: 40.0
Offered: Day; Evening
Course Fee: Resident: $51.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Sheet Metal Techniques; Solar Heating; Solar Home Construction; Solar Systems Design

Solar System Fabrication II
Course Number: 2993
Instructor: Dunning, Francis
(315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 10.0
Workshop: 40.0
Offered: Day; Evening
Course Fee: Resident: $51.00
Non Resident: $153.00
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

North Carolina

CAPE FEAR TECHNICAL INSTITUTE

Wilmington, NC 28401
(919)343-0481 (005320)

Curriculum with Solar Study

General Occupational Technologies *
Degree: Associate
General Occupational Technologies
Department: Technical Division
Contact: Stiles, W. O.
Averette, R.
(919)343-0481

Program and Curriculum Related Courses

Introduction to Energy Resources *
Course Number: T-EGY 101
Instructor: Bordeaux, Ralph
(919)343-0481
Department: Engineering Division
Program: General Occupational Technologies *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Introduction to Solar Energy

Introduction to Solar Energy Systems, Electrical *
Course Number: T-EGY 103
Instructor: Bordeaux, Ralph
(919)343-0481
Department: Engineering
Program: General Occupational Technologies *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 44.0
Lab: 22.0
Topics Covered Extensively: Appropriate Technology; Photovoltaics and Solar Cells; Solar Energy Policy Development; Distributed Solar Power Systems; Wind Energy Conversion Systems

Introduction to Solar Energy Systems, Thermal *
Course Number: T-EGY 102
Instructor: Stiles, Warren O.
(919)256-3146
Department: General Occupational Technologies
Program: General Occupational Technologies *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 44.0
Lab: 22.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Domestic Hot Water

CARTERET TECHNICAL INSTITUTE

Morehead City, NC 28557
(919)726-2811 (008081)

Solar Technical Training

Solar Energy: Fundamentals and Construction *
Department: Community Services; Continuing Education
Contact: Nelson, J. Lenn
(919)726-1171
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy: Fundamentals and Construction *
Course Number: FIS 3031D
Instructor: Whitehurst, Brooks
(919)726-1171
Department: Community Services
Program: Solar Energy: Fundamentals and Construction *
Student Level: All Levels
Duration: No. of weeks: 9.0
Hrs. per week: 3.0
Contact Hours: 27.0
Classroom: 9.0
Lab: 18.0
Topics Covered Extensively: Introduction to Solar Energy; Components-Solar; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water

COASTAL CAROLINA COMMUNITY COLLEGE

444 Western Boulevard
Jacksonville, NC 28540
(919)455-1221 (008084)

Tuition (Full Time):

Resident: $44.00 Non Resident: $203.00

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration
Degree: Certificate
Air Conditioning, Heating and Refrigeration
Department: Trades
Contact: Rawls, Preston
(918)455-1221
Program Training: Solar System Installation-Residential; Heating, Ventilation, Air Conditioning-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Fundamentals of Solar Heating
Course Number: AHR 1110
Instructor: Hewitt, Robert L.
(919)455-1221 EXT.264
Department: Air Conditioning, Heating and Refrig.
Program: Air Conditioning, Heating and Refrigeration
Student Level: Skilled Labor
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 33.0
Lab: 33.0
Offered: Day
Course Fee: Resident: $13.00
Non Resident: $66.00
Prerequisites: Yes

Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

MAYLAND TECHNICAL INSTITUTE

P O Box 547
Spruce Pine, NC 28777
(704)765-7351 (011197)

Tuition (Full Time):

Resident: $39.00 Non Resident: $198.00

Curriculum with Solar Study

Light Construction

Degree: Certificate
Solar Application
Performance, Installation and Maintenance
Department: Light Construction
Contact: Hensley, Robert M.
(704)765-7351 EXT.56
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Applications and Performance

Course Number: EGY 1101
Instructor: Hensley, Robert M.
(704)765-7351 EXT.56
Department: Light Construction
Program: Light Construction
Student Level: Skilled Labor
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0
Offered: Day
Course Fee: Resident: $10.00
Non Resident: $52.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Related Courses

Solar Installation and Maintenance

Course Number: EGY 1102
Instructor: Hensley, Robert
(704)765-7351 EXT.56
Department: Light Construction
Student Level: Skilled Labor
Academic Credits: 0.4 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 8.0
Contact Hours: 88.0
Classroom: 22.0
Workshop: 66.0
Offered: Day

PAMLICO TECHNICAL INSTITUTE

Grantsboro, NC 28529
(919)249-1851 (007031)

Solar Technical Training

*Solar Energy **

Certificate
Department: Continuing Education
Contact: Prescott, Matthew
(919)249-1851
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Solar Energy **

Instructor: Whitehurst, Brooks
(919)249-1851
Department: Continuing Education
Program: Solar Energy *
Student Level: All Levels
Duration: No. of weeks: 4.0
Hrs. per week: 11.0
Contact Hours: 44.0
Classroom: 11.0
Lab: 33.0
Topics Covered Extensively: Solar Systems Installation/Maintenance; Solar Domestic Hot Water

SOUTHWESTERN TECHNICAL INSTITUTE

P O Box 95
Sylva, NC 28779
(704)586-4091 (008466)

Tuition (Full Time):

Resident: $41.00 Non Resident: $200.00

Solar Technical Training

Solar Mechanics

Degree: Certificate
Vocational
Department: Industrial and Vocational Education
Contact: Liming, Glenn
(704)586-4091 EXT.213
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial

Program and Curriculum Related Courses

Active Solar Space Conditioning

Course Number: EGY 1142
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 15.0
Contact Hours: 165.0
Classroom: 66.0
Lab: 99.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Cooling; Solar Heating; Solar Systems Design

Controls, Installation, and Maintenance

Course Number: EGY 1130
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 22.0
Lab: 33.0
Offered: Day
Course Fee: Resident: $10.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance

Economics of Solar Energy Systems

Course Number: EGY 1132
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day
Course Fee: Resident: $10.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Solar Marketing/Economic Analysis

Energy Perspectives

Course Number: EGY 1138
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Day
Course Fee: Resident: $7.00
Non Resident: $33.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Energy Policy Development; Solar Law/Legislation

Fundamentals of Solar Energy

Course Number: EGY 1140
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: Layperson
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Evening
Course Fee: Resident: $7.00
Non Resident: $33.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Introduction to Solar Concepts

Course Number: EGY 1120
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day
Course Fee: Resident: $10.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Passive Solar Space Heating
Course Number: EGY 1129
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Day
Course Fee: Resident: $7.00
Non Resident: $33.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Home Construction; Solar Systems Design

Residential Energy Conservation
Course Number: EGY 1137
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Day
Course Fee: Resident: $7.00
Non Resident: $33.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation

Solar Collectors
Course Number: EGY 1121
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 7.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 11.0
Contact Hours: 121.0
Classroom: 55.0
Lab: 66.0
Offered: Day
Course Fee: Resident: $23.00
Non Resident: $115.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Materials

Solar Domestic Hot Water
Course Number: EGY 1125
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 8.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 14.0
Contact Hours: 154.0
Classroom: 55.0
Lab: 99.0
Offered: Day
Course Fee: Resident: $27.00
Non Resident: $133.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Domestic Hot Water

Solar Greenhouses
Course Number: EGY 1144
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: Layperson
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Evening
Course Fee: Resident: $7.00
Non Resident: $33.00
Topics Covered Extensively: Greenhouse Techniques

Solar Lab I
Course Number: EGY 1136
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 9.0
Contact Hours: 99.0
Lab: 99.0
Offered: Day
Course Fee: Resident: $10.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Installation/Maintenance

Solar-Electric Systems
Course Number: EGY 1134
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: College Freshman/Sophomore
Academic Credits: 7.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 11.0
Contact Hours: 121.0
Classroom: 55.0
Lab: 66.0
Offered: Day
Course Fee: Resident: $23.00
Non Resident: $115.00
Topics Covered Extensively: Centralized Solar Power Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

North Dakota

NORTH DAKOTA STATE SCHOOL OF SCIENCE

Wahpeton, ND 58075
(701)671-1130 (002996)

Solar Technical Training

Environmental Systems Design *
Department: Environmental Systems
Contact: Whitcomb, Larry
(701)671-2529
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial

Program and Curriculum Related Courses

Systems and Equipment *
Course Number: ESD 203
Instructor: Whitcomb, Larry
(701)671-2529
Department: Environmental Systems
Program: Environmental Systems Design *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 60.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Home Construction; Solar Systems Installation/Maintenance

Solar Related Courses

Solar Energy Building
Course Number: AD 151
Instructor: Jensen, Roger
(701)671-2229
Neiland, Das
Department: Arch. Draft. & Estimating Tech.
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Passive Solar Systems; Solar Home Construction; Solar Systems Design

Ohio

COLUMBUS TECHNICAL INSTITUTE

550 East Spring Street
P O Box 1609
Columbus, OH 43216
(614)221-6743 (006867)

Solar Related Courses

Seminar on Solar Energy

Instructor: Jordan, Russell W. (614)227-2426
Student Level: Layperson
Contact Hours: 4.0
Seminar: 4.0
Offered: Weekend
Course Fee: Resident: $10.00
Non Resident: $10.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy

Instructor: Pierce, David (614)227-2576
Department: Architecture
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0
Offered: Day
Course Fee: Resident: $57.00
Prerequisites: No

Solar Energy System Seminar for Contractors and Tradespeople

Instructor: Jordan, Russell W. (614)227-2426
Student Level: Professional; Skilled Labor
Contact Hours: 4.0
Seminar: 4.0
Offered: Weekend
Course Fee: Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Installation/Maintenance

Solar Energy System Seminar for Government, Financial, and Insurance Personnel

Instructor: Jordan, Russell W. (614)227-2426
Student Level: Managerial
Contact Hours: 4.0
Seminar: 4.0
Offered: Day
Course Fee: Resident: $25.00
Prerequisites: No

Solar Energy Workshop for Architects and Engineers

Instructor: Jordan, Russell W. (614)227-2426
Student Level: Professional
Contact Hours: 24.0
Classroom: 12.0
Workshop: 12.0
Offered: Day
Course Fee: Resident: $196.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Energy, Do-It-Yourself

Instructor: Jordan, Russell W. (614)227-2426
Student Level: Layperson
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Workshop: 20.0
Offered: Evening
Course Fee: Resident: $30.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Installation/Maintenance

NORTH AMERICAN HEATING AND AIR CONDITIONING WHOLESALERS

1661 West Henderson Road
Columbus, OH 43220
(614)459-2100 (090400)

Solar Related Courses

Fundamentals of Solar Heating

Instructor: Healy, James H. (614)459-2100
Department: NHAW Home Study Institute
Student Level: Skilled Labor
C.E.U.'s: 4.0
Course Fee: Resident: $125.00
Non Resident: $125.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Oregon

LINN-BENTON COMMUNITY COLLEGE

Albany, OR 97321
(503)928-2361 (006938)

Curriculum with Solar Study

*Engineering Technology - Solar Energy Option **

Degree: Associate Engineering Technology
Department: Science Technology; Engineering Technology; Drafting Technology
Contact: Miller, Dave (503)928-2361

Program and Curriculum Related Courses

*Alternative Energy Sources **

Course Number: 3.527
Department: Engineering Technology
Program: Engineering Technology - Solar Energy Option *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 33.0
Lab: 33.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Distributed Solar Power Systems; Wind Energy Conversion Systems

*Energy Systems Management **

Course Number: 6.220
Department: Engineering Technology
Program: Engineering Technology - Solar Energy Option *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

*Solar Energy **

Course Number: 6.221
Department: Engineering Technology
Program: Engineering Technology - Solar Energy Option *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Materials; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Wind Energy Conversion Systems

ROGUE COMMUNITY COLLEGE

Grants Pass, OR 97526
(503)479-5541 (010182)

Solar Related Courses

*Natural Energy Conservation, Domestic Solar Water Heater **

Course Number: 642
Instructor: Lilly, Joseph (503)479-5541
Department: Science and Small Farm Management
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 5.0
Contact Hours: 70.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Energy Policy Development; Components-Solar; Solar Law/Legislation; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating

UMPQUA COMMUNITY COLLEGE

P O Box 967
Roseburg, OR 97470
(503)672-5571 (003222)

Solar Technical Training

Solar Technical Training

Degree: Certificate Vocational
Department: Community Education
Contact: Wells, Sherril L. (503)672-5571 EXT.38
Program Training: Solar Energy Education; Do-It-Yourself/Home Installation

Pennsylvania

DELAWARE COUNTY COMMUNITY COLLEGE

Media Line Road
Media, PA 19063
(215)353-5400 (007110)

Solar Technical Training

Solar Technology

Degree: Associate
Department: Engineering and Technologies
Contact: Szalai, Imre A. (215)353-5400 EXT.288
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Heating, Ventilation, Air Conditioning-Solar Specialization; Do-It-Yourself/Home Installation

Solar Related Courses

Conserving Energy Saves Consumer Dollars

Instructor: Mabrey, Marjorie (215)353-5400
Department: Community Education
Student Level: All Levels; Layperson
Duration: No. of weeks: 2.0; Hrs. per week: 10.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Solar Energy Concepts

Course Number: PHY 2991
Instructor: Szalai, Imre A. (215)353-5400 EXT.288
Department: Engineering and Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Seminar: 5.0
Independent Study: 10.0
Offered: Day
Course Fee: Resident: $78.00
Prerequisites: Yes
Topics Covered Extensively: Bioconversion; Centralized Solar Power Systems; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photoconversion; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

LEHIGH COUNTY COMMUNITY COLLEGE

2370 Main Street
Schnecksville, PA 18078
(215)799-2121 (006810)

Tuition (Full Time):

Resident: $435.00 Non Resident: $1,305.00

Solar Curriculum

Alternate Energy Technologies

Degree: Associate
Solar, Wind Electric
Department: Physics
Contact: Walker, J. Robert (215)799-2121 EXT.1500
Program Training: Architecture-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternate Energy Technologies

Course Number: PHY 102
Instructor: Walker, J. Robert (215)799-1515
Department: Physics
Program: Alternate Energy Technologies
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $116.00; Non Resident: $348.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Heating; Thermochemical Conversion

Basic Solar Systems

Instructor: Walker, J. Robert (215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: All Levels
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Course Fee: Resident: $15.00; Non Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Energy Systems I

Course Number: AET 203
Instructor: Walker, J. Robert (215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $29.00; Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Energy Systems II

Course Number: AET 205
Instructor: Walker, J. Robert (215)799-2121 EXT.1500
Department: Physics

Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $29.00
Non Resident: $58.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design

Passive Solar Systems
Course Number: AET 206
Instructor: Walker, J. Robert
(215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $29.00
Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems

Photovoltaic and Wind Electric Systems
Course Number: AET 210
Instructor: Walker, J. Robert
(215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $29.00
Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Photoconversion; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Solar Control Systems
Course Number: AET 208
Instructor: Walker, J. Robert
(215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $29.00
Non Resident: $58.00
Prerequisites: No

PENNSYLVANIA INSTITUTE OF TECHNOLOGY

414 Sansom St.
Upper Darby, PA 19082
(215)352-7100 (090180)

Tuition (Full Time):
Resident: $720.00 Non Resident: $720.00

Curriculum with Solar Study

Energy Technology
Degree: Associate
Specialized Technology
Department: Electronics
Contact: Thomas, Richard B.
(215)352-7100
Program Training: Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Design
Course Number: 365
Instructor: Thomas, Richard
(215)352-7100
Department: Electronics, Mechanical Engineering
Program: Energy Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 36.0
Independent Study: 12.0
Offered: Day; Evening
Course Fee: Resident: $115.00
Non Resident: $115.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Heat and Energy Transfer; Photoconversion; Photovoltaics and Solar Cells; Process Heat

Basic Solar Design
Course Number: 366
Instructor: Thomas, Richard B.
(215)352-7100
Department: Electronics, Mechanical Engineering
Program: Energy Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 48.0
Lab: 12.0
Course Fee: Resident: $115.00
Non Resident: $115.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Photovoltaics and Solar Cells; Solar Systems Design; Solar Systems Testing/Evaluation

Energy Conversion Devices
Course Number: 360
Instructor: Thomas, Richard
(215)352-7100
Department: Electronics, Mechanical Engineering
Program: Energy Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 48.0
Lab: 12.0
Offered: Day; Evening
Course Fee: Resident: $115.00
Non Resident: $115.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Photoconversion; Photovoltaics and Solar Cells; Process Heat

PENNSYLVANIA STATE UNIVERSITY FAYETTE CAMPUS

P O Box 519
Uniontown PA 15401
(412)437-2801 (003336)

Tuition (Full Time):
Resident: $393.00 Non Resident: $916.00

Solar Curriculum

Solar Heating and Cooling Technology
Degree: Associate
Design and Installation of Resid. and Commercial Solar Heat. and Cool. Systems
Department: Engineering
Contact: Meredith, David B.
(412)437-2801 EXT.76
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/ Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Analysis of Solar Heating and Cooling Systems
Course Number: ST 804
Instructor: Meredith, David B.
(412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 10.0
Lab: 50.0
Offered: Day
Course Fee: Resident: $129.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Design

Economics of Solar Technology
Course Number: ST 805
Instructor: Meredith, David B.
(412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $129.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Design

Heat Storage and Distribution Systems
Course Number: ST 803
Instructor: Meredith, David B.
(412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)

Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $129.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems

Introduction to Solar Technology
Course Number: ST 801
Instructor: Meredith, David B.
(412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $86.00
Non Resident: $230.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Solar Collectors
Course Number: ST 802
Instructor: Meredith, David B.
(412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $129.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Components-Solar

TRIANGLE INSTITUTE OF TECHNOLOGY

635 Smithfield Street
Pittsburgh, PA 15222
(412)755-6170 (090110)

Tuition (Full Time):

Resident: $1,500.00 Non Resident: $1,500.00

Curriculum with Solar Study

Refrigerating, Heating, Ventilating, and Air Conditioning with Solar Systems
Degree: Associate
Special Technology
Department: Refriger., Heat., Vent., and Air Cond.
Contact: Gould, James
(412)255-6170
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Systems, Theory and Lab
Course Number: 403
Instructor: Gould, James S.
(412)255-6170
Department: Refrig., Heat., Vent. and Air Cond.
Program: Refrigerating, Heating, Ventilating, and Air Conditioning with Solar Systems
Student Level: Skilled Labor; Layperson
Academic Credits: 10.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 22.5
Contact Hours: 300.0
Classroom: 90.0
Lab: 210.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

WILLIAMSPORT AREA COMMUNITY COLLEGE

Williamsport, PA 17701
(717)326-3761 (003395)

Solar Technical Training

Plumbing and Heating *
Department: Building Technology; Plumbing and Heating
Contact: Krause, George C.
(717)326-3761
Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Plumbing and Heating *
Course Number: 842
Instructor: Beatty, Franklin P.
Department: Building Technology, Plumbing and Heating
Program: Plumbing and Heating *
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 8.0
Hrs. per week: 25.0
Contact Hours: 200.0
Classroom: 64.0
Lab: 136.0

Puerto Rico

UNIVERSITY OF PUERTO RICO, BAYAMON REGIONAL COLLEGE

Box 4296 Bayamon Gardens Station
Bayamon, PR 00619
(809)763-1600 (010922)

Solar Related Courses

Energy Management
Course Number: COEN 201
Instructor: Crouch, Alfred J.
(809)751-2145
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Solar Systems Testing/Evaluation

Energy Production, Its Technology & the Environment
Course Number: COEN 241
Instructor: Crouch, Alfred J.
(809)751-2145
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Solar Energy Technology Laboratory
Course Number: LCOEN 261
Instructor: Crouch, Alfred J.
(809)751-2145
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Lab: 48.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy Technology
Course Number: COEN 261
Instructor: Crouch, Alfred J.
(809)751-2145
Department: Physics, Chemistry
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

South Carolina

BEAUFORT TECHNICAL COLLEGE

100 South Ribaut Road
Beaufort, SC 29902
(803)524-3380 (009910)

Tuition (Full Time):
Resident: $120.00 Non Resident: $120.00

Solar Related Courses

Solar Energy Applications

Course Number: ACR 240
Instructor: Spivey (803)524-3380 EXT.289 Brouillette
Department: ACR
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 11.0
Duration: No. of weeks: 13.0 Hrs. per week: 6.0
Contact Hours: 78.0
Classroom: 39.0
Lab: 39.0
Offered: Day; Evening
Course Fee: Resident: $48.00 Non Resident: $48.00
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

FLORENCE DARLINGTON TECHNICAL COLLEGE

P O Drawer F-8000
Florence, SC 29501
(803)662-8151 (003990)

Tuition (Full Time):
Resident: $115.00 Non Resident: $140.00

Solar Related Courses

Conversion of Solar Energy

Course Number: ACR 204
Instructor: Jackson, Edward Jr. (803)662-8151 EXT.299
Department: Climate Control Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0 Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 33.0
Lab: 33.0
Offered: Day; Evening
Course Fee: Resident: $10.00 Non Resident: $12.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

TRI COUNTY TECHNICAL COLLEGE

P O Box 587
Pendleton, SC 29654
(803)646-3227 (004926)

Solar Related Courses

Solar Energy and the Home Owner *

Instructor: Fairey, Philip W. (803)646-3227
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 12.0 Hrs. per week: 2.0
Contact Hours: 24.0
Prerequisites: No

Solar Energy Applications

Course Number: ACR 240
Instructor: Edwards, Joe (803)225-2250 EXT.302
Department: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0 Hrs. per week: 8.0
Contact Hours: 88.0
Classroom: 22.0
Lab: 66.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $33.00 Non Resident: $48.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

TRIDENT TECHNICAL COLLEGE

P O Box 10367
Charleston, SC 29411
(803)553-2375 (008818)

Solar Technical Training

Air Conditioning and Refrigeration *

Degree: Certificate Air Conditioning and Refrigeration
Contact: Moore, James L. (803)572-6180
Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Heating *

Instructor: Moore, James L. (803)572-6180
Department: Air Conditioning/Refrigeration
Program: Air Conditioning and Refrigeration *
Student Level: All Levels
Duration: No. of weeks: 3.0 Hrs. per week: 30.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Topics Covered Extensively: Heat and Energy Transfer; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

YORK TECHNICAL COLLEGE

U S 21 Bypass
Rock Hill, SC 29730
(803)328-3843 (003996)

Tuition (Full Time):
Resident: $90.00 Non Resident: $180.00

Solar Related Courses

Conversion of Solar Energy

Course Number: ACR 204
Instructor: White, Lacy H. (803)324-3130 EXT.287
Department: Air Conditioning, Heating and Refrig.
Student Level: All Levels; Skilled Labor
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 1.0
Duration: No. of weeks: 11.0 Hrs. per week: 8.0
Contact Hours: 88.0
Classroom: 22.0
Lab: 66.0
Offered: Day
Course Fee: Resident: $29.00 Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Solar Heating; Solar Systems Installation/Maintenance

South Dakota

MITCHELL VOCATIONAL TECHNICAL SCHOOL

821 North Capital
Mitchell, SD 57301
(605)996-6671 (091100)

Solar Technical Training

Solar Water Heating

Degree: Certificate
Heating and Air Conditioning
Department: Heating and Air Conditioning
Contact: Hunstad, Carroll
(605)996-6671 EXT.125

Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential

Program and Curriculum Related Courses

Program: Solar Water Heating

Tennessee

CHATTANOOGA STATE TECHNICAL COMMUNITY COLLEGE

4501 Amnicola Highway
Chattanooga, TN 37406
(615)622-6262 (003998)

Tuition (Full Time):

Resident: $84.00 Non Resident: $396.00

Curriculum with Solar Study

Heating, Ventilation, and Air Conditioning Technology

Degree: Associate
Mechanical Engineering
Department: Mechanical Engineering Technology
Contact: Townsend, Terry E.
(615)622-6262 EXT.258

Program Training: Scientific Research and Development in Solar Energy; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance; Architecture-Solar Specialization

Program and Curriculum Related Courses

Alternate Energy Technology

Course Number: MD 293
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation, and Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Fundamentals of Solar Energy Technology

Course Number: MD 290
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation, and Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

Heating, Ventilating, Air Conditioning, and Solar Control Systems

Course Number: MD 199
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation, and Air Conditioning Technology
Student Level: All Levels; Layperson
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $28.00
Non Resident: $132.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Hybrid Systems

Passive Design Fundamentals

Course Number: MD 292
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation, and Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Home Construction

Solar Energy System Design

Course Number: MD 291
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation, and Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Design

Solar Technical Training

Solar Installation Certification Program

Degree: Certificate
Solar fundaments, hardware and system maintenance.
Department: Mechanical Engineering Technology
Contact: Townsend, Terry E.
(615)622-6262 EXT.258

Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Fundamentals of Solar Energy Technology

Course Number: MD 290
Instructor: Townsend, Terry E.
(615)622-6262 EXT.258

Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

Heating, Ventilating, Air Conditioning, and Solar Control Systems
Course Number: MD 199
Instructor: Townsend, Terry E. (615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels; Layperson
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $28.00
Non Resident: $132.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Hybrid Systems

Legal Aspects of Solar Applications
Course Number: MD 297
Instructor: Townsend, Terry E. (615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Solar Law/Legislation

Solar Energy System Design
Course Number: MD 291
Instructor: Townsend, Terry E. (615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $21.00
Non Resident: $99.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Design

Solar System Installation and Maintenance I
Course Number: MD 295
Instructor: Townsend, Terry E. (615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels; Layperson
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $28.00
Non Resident: $132.00
Topics Covered Extensively: Plumbing Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar System Installation and Maintenance II
Course Number: MD 296
Instructor: Townsend, Terry E. (615)622-6262 EXT.258
Department: Mechanical Engineering Technology
Program: Solar Installation Certification Program
Student Level: All Levels; Layperson
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $28.00
Non Resident: $121.00
Topics Covered Extensively: Plumbing Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

CLEVELAND STATE COMMUNITY COLLEGE

Cleveland, TN 37311
(615)472-7141 (003999)

Solar Technical Training

*Faculty Development Workshop in Energy Alternatives **
Department: Community Services; Continuing Education
Contact: Guy, Buford (615)472-7141
Program Training: Solar Energy Education

Program and Curriculum Related Courses

*Workshop in Energy Alternatives **
Instructor: Guy, Buford (615)472-7141
Department: Community Services, Continuing Education
Program: Faculty Development Workshop in Energy Alternatives *
Student Level: College Graduate
Academic Credits: 6.0
Duration: No. of weeks: 2.0
Hrs. per week: 30.0
Contact Hours: 60.0
Classroom: 50.0
Lab: 10.0
Topics Covered Extensively: Alternate Energy Sources

MOTLOW STATE COMMUNITY COLLEGE

Tullahoma, TN 37388
(615)455-8511 (006836)

Curriculum with Solar Study

*Energy Engineering Technology **
Degree: Associate Engineering Technology - Energy Engineering Emphasis
Department: Career Education
Contact: Thornton, Otis B. (615)455-8511
Program Training: Solar System Installation-Residential; Scientific Research and Development in Solar Energy; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Solar Energy Applications **
Course Number: ERG 205
Instructor: Lowndes, Richard (615)455-8511
Department: Career Education
Program: Energy Engineering Technology *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating

*Solar Energy Theory **
Course Number: ERG 204
Instructor: Lowndes, Richard (615)455-8511
Department: Career Education
Program: Energy Engineering Technology *
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating

STATE TECHNICAL INSTITUTE AT KNOXVILLE

3435 Division Street
Knoxville, TN 37919
(615)637-4262 (012693)

Curriculum with Solar Study

Alternate Energy Specialization
Department: Mechanical Engineering Technology
Contact: Magnuson, Dwight (615)637-4262

Program and Curriculum Related Courses

Active Solar Design
Course Number: ME 274
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization

Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Alternative Fuels and Systems
Course Number: ME 275
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion

Introduction to Solar Energy and Conservation
Course Number: ME 271
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Systems Design; Solar Heating

Passive Solar Design
Course Number: ME 273
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction; Solar Systems Design

Special Topics
Course Number: ME 276
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Ocean Systems; Solar Marketing/Economic Analysis; Photovoltaics and Solar Cells

Wind and Water Power Systems
Course Number: ME 272
Instructor: Magnuson, Dwight
Department: Mechanical Engineering
Program: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Texas

AMARILLO COLLEGE

P O Box 447
Amarillo, TX 79178
(806)376-5111 (003540)

Tuition (Full Time):

Resident: $16.50 Non Resident: $63.25

Solar Related Courses

Alternative Energy Sources
Course Number: PhySci 136
Instructor: Gilmore, Earl H. (806)376-5111 EXT.371
Department: Physical Sciences
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 4.8
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $29.50
Non Resident: $62.50
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Distributed Solar Power Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Wind Energy Conversion Systems

Solar Systems Seminar
Instructor: Gaither, Charles E. (806)376-5111 EXT.361
Department: Continuing Education, Community Services
Student Level: Layperson
C.E.U.'s: 1.2
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $15.00
Non Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Home Construction

Solar Systems, Design and Installation
Course Number: 2090
Instructor: Siess, Clifford w. (806)376-5111 EXT.361
Department: Continuing Education, Adult Vocational Education
Student Level: Layperson
C.E.U.'s: 4.5
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 25.0
Workshop: 5.0
Lab: 10.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

CENTRAL TEXAS COLLEGE

Killeen, TX 76541
(817)526-1211 (004003)

Curriculum with Solar Study

*Solar Energy Systems Technology **
Degree: Associate Applied Science
Department: Industrial Technology
Contact: Tresler, Clarence (817)526-1236
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Principles of Solar Energy **
Course Number: SESY 1314
Instructor: Tresler, Clarence (817)526-1236
Department: Industrial Technology
Program: Solar Energy Systems Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Introduction to Solar Energy

*Solar Cooling Systems **
Course Number: SESY 241
Instructor: Tresler, Clarence (817)526-1236
Department: Industrial Technology
Program: Solar Energy Systems Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

*Solar Energy Special Projects **
Course Number: SESY 231
Instructor: Tresler, Clarence (817)523-1236
Department: Industrial Technology
Program: Solar Energy Systems Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 16.0
Lab: 80.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

*Solar Heating Systems **
Course Number: SESY 141
Instructor: Tresler, Clarence (817)526-1236
Department: Industrial Technology
Program: Solar Energy Systems Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0

Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

Solar Technical Training

Solar Energy Systems Specialist *
Department: Industrial Technology
Contact: Tresler, Clarence (817)526-1236
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Principles of Solar Energy *
Course Number: SESY 1314
Instructor: Tresler, Clarence (817)526-1236
Department: Industrial Technology
Program: Solar Energy Systems Specialist *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Introduction to Solar Energy

Solar Heating Systems *
Course Number: SESY 141
Instructor: Tresler, Clarence (817)526-1236
Department: Industrial Technology
Program: Solar Energy Systems Specialist *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

MIDLAND COLLEGE

3600 Garfield
Midland, TX 79701
(915)684-7851 (009797)

Tuition (Full Time):

Resident: $49.00 Non Resident: $75.00

Solar Related Courses

Solar Heating Systems
Course Number: A/R 2405
Instructor: Wakefield, Charles (915)684-7851 EXT.132
Department: Air Conditioning and Refrig. Technol.
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Evening
Course Fee: Resident: $49.00
Non Resident: $75.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Systems Installation/Maintenance

NAVARRO COLLEGE

P O Box 1170
Corsicana, TX 75110
(214)874-6501 (003593)

Tuition (Full Time):

Resident: $200.00 Non Resident: $300.00

Solar Curriculum

Solar Energy Technician
Degree: Associate Solar Energy Technician
Department: Career Education
Contact: Boyd, Hermon Alan (214)874-6501 EXT.200
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Collectors and Energy Storage
Course Number: SE 1154
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Systems Design; Solar Systems Testing/Evaluation

Economics, Codes, Legal Consumerism
Course Number: SE 2142
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $38.00
Topics Covered Extensively: Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/Economic Analysis

Energy Science I
Course Number: SE 1134
Instructor: Boyd, H. Alan (214)874-6501
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Heat and Energy Transfer; Materials; Photovoltaics and Solar Cells

Energy Science II
Course Number: SE 1144
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer

Introduction to Solar Energy
Course Number: SE 1112
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $38.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy

Materials and Material Handling
Course Number: SE 1123
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 16.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation/Maintenance

Non-Residential Applications and Future Technology
Course Number: SE 2153
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Semester)

Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Satellite Solar Power Systems; Wind Energy Conversion Systems

Operational Diagnosis

Course Number: SE 2133
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Components-Solar; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Sizing, Design and Retrofit

Course Number: SE 2114
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Practicum

Course Number: SE 2163
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 9.0
Contact Hours: 144.0
Job: 144.0
Offered: Day
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Components-Solar; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Technical Survey of Energy Sources

Course Number: SE 2123
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $50.00
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Ocean Systems; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Wind Energy Conversion Systems

Solar Technical Training

Solar Energy - Installers, Mechanics

Degree: Certificate
Solar Energy Installers, and Mechanics
Department: Career Education
Contact: Kasprzyk, Ernest
(214)874-6501
Program Training: Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Collectors, Energy Storage, Installation, and Service

Course Number: SE 1044
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $114.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Introduction to Solar Heating and Cooling

Course Number: SE 1013
Instructor: Boyd, H. Alan
(214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 32.0
Lab: 16.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $91.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Materials and Fabrication I

Course Number: SE 1034
Instructor: Boyd, H. Alan
(214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $114.00
Topics Covered Extensively: Materials; Plumbing Techniques; Sheet Metal Techniques

Materials and Fabrication II

Course Number: SE 1074
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Materials; Plumbing Techniques; Sheet Metal Techniques

Solar Heating and Cooling Systems I

Course Number: SE 1064
Instructor: Boyd, H. Alan
(214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $114.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Heating and Cooling Systems II

Course Number: SE 1084
Instructor: Boyd, H. Alan
(214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/
Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

NORTH LAKE COLLEGE

Irving, TX 75062
(214)659-5327 (029066)

Solar Curriculum

Solar Energy Technician *

Degree: Associate
Department: Science; Math; Technology
Contact: Knowles, Jim
(214)255-5325
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Collectors and Storage *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems

Energy Science I *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Topics Covered Extensively: Heat and Energy Transfer

Energy Science II *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0

Future Technology *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Cooling

Introduction to Solar *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Passive Solar Systems

Materials, Material Handling *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 16.0
Lab: 64.0
Topics Covered Extensively: Plumbing Techniques; Sheet Metal Techniques

Operational Diagnosis *

Instructor: Knowles, Jim
(214)255-5260
Department: Science, Math, Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Sizing Design and Retrofit *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 16.0
Hrs. per week: 7.0
Contact Hours: 112.0
Classroom: 48.0
Lab: 64.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Solar Codes and Consumerism *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Solar Marketing/Economic Analysis; Solar Energy Policy Development

Solar Practicum *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Job: 80.0

Technical Survey of Energy Sources *

Instructor: Knowles, Jim
(214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Heat and Energy Transfer; Wind Energy Conversion Systems

ODESSA COLLEGE

P O Box 3752
Odessa, TX 79760
(915)337-5381 (003596)

Tuition (Full Time):

Resident: $65.00 Non Resident: $200.00

Solar Related Courses

Solar Power

Course Number: RAC 2300
Instructor: Witcher, Norman
(915)337-5381
Department: Refrigeration and Air Conditioning
Student Level: College Freshman/Sophomore
Academic Credits: 6.0 (Quarter)
Duration: No. of weeks: 16.0
Hrs. per week: 10.0
Contact Hours: 160.0
Classroom: 48.0
Lab: 112.0
Offered: Day; Evening
Course Fee: Resident: $65.00
Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

RANGER JUNIOR COLLEGE

Ranger, TX 76470
(817)647-3234 (003603)

Tuition (Full Time):

Resident: $176.00 Non Resident: $312.00

Curriculum with Solar Study

Air Conditioning and Refrigeration

Degree: Associate
Air Conditioning and Refrigeration
Department: Vocational
Contact: Stiles, Alton
(817)647-3234
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Fundamentals of Solar Heating and Cooling

Course Number: AR 263
Instructor: Stiles, Alton
(817)629-3234
Department: Vocational - Technical
Program: Air Conditioning and Refrigeration
Student Level: All Levels; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 8.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Evening
Course Fee: Resident: $74.00
Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Materials; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Thermal Energy Systems

Course Number: AR 264

Instructor: Stiles, Alton
(817)647-3234
Department: Vocational - Technical
Program: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 8.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Evening
Course Fee: Resident: $74.00
Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

TEXAS STATE TECHNICAL INSTITUTE

Waco Campus
Waco, TX 76705
(817)799-3611 (003634)

Tuition (Full Time):

Resident: $82.00 Non Resident: $262.00

Solar Curriculum

Solar Energy Technology
Degree: Associate
Solar Energy
Department: Solar Energy Technology
Contact: Pierpont, Jerry
(817)799-3611 EXT.368
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Air Distribution
Course Number: SOL 206
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

Commercial Load Calculations
Course Number: SOL 316
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Cooling Devices
Course Number: SOL 204
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Cooling

Domestic Hot Water Systems
Course Number: SOL 108
Course Number: (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance

Energy Conservation and Architectural Considerations
Course Number: SOL 302
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Solar Home Construction

Heat Storage
Course Number: SOL 106
Course Number: (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems

Installation, Maintenance, and Troubleshooting
Course Number: SOL 208
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 9.0
Contact Hours: 98.0
Classroom: 36.0
Lab: 62.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $110.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Installation/Maintenance

Introduction to Solar Energy Technology
Course Number: SOL 100
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 1.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Day
Course Fee: Resident: $7.00
Non Resident: $22.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Residential Load Calculations
Course Number: SOL 104
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Solar Calculations
Course Number: SOL 312
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

Solar Controls
Course Number: SOL 306
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day

Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Solar Economics
Course Number: SOL 310
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/ Economic Analysis

Solar Radiation and Collectors
Course Number: SOL 202
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Systems Design

Solar Radiation and Collectors, 102
Course Number: SOL 102
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Topics Covered Extensively: Solar Systems Design; Components-Solar

System Configurations
Course Number: SOL 304
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating

System Cost Estimating
Course Number: SOL 308
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/ Economic Analysis

System Design
Course Number: SOL 314
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 9.0
Contact Hours: 108.0
Classroom: 36.0
Lab: 72.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $110.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

TYLER JUNIOR COLLEGE

East 5th Street
Tyler, TX 75701
(214)597-4281 (003648)

Tuition (Full Time):

Resident: $56.00 Non Resident: $105.00

Curriculum with Solar Study

Air Conditioning and Refrigeration
Degree: Associate
Department: Air Conditioning and Refrigeration
Contact: Robinson, C. T.
(214)593-2872
Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Introduction to Solar Systems
Course Number: AC 113 S
Instructor: Robinson, C. T.
(214)593-2872
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $34.00
Prerequisites: No

Solar System Sizing and Installation
Course Number: AC 223 S
Instructor: Robinson, C. T.
(214)593-2872
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $34.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Utah

BRIDGERLAND AREA VOCATIONAL CENTER

UMC 10, Utah State University
Logan, UT 84322
(801)753-0682 (061100)

Solar Technical Training

Building Construction

Degree: Certificate
Vocational Building Construction
Department: Building Construction
Contact: Murry, Arlyn P.
(801)753-0682

Program Training: Architecture-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

DIXIE COLLEGE

Saint George, UT 84770
(801)673-4811 (003671)

Solar Technical Training

Solar Technology *

Department: Business and Trades
Contact: Hacking, John
(801)673-4811

Program and Curriculum Related Courses

Introduction to Applied Solar Energy *

Course Number: ST 150
Instructor: Tait, Don
(801)673-4811
Department: Engineering Technology
Program: Solar Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 55.0

Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Materials; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Energy - Home Use Applications *

Course Number: ST 123
Instructor: Tait, Don
(801)673-4811
Department: Engineering Technology
Program: Solar Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 16.0
Lab: 15.0

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Vermont

COMMUNITY COLLEGE OF VERMONT

P O Box 81
Montpelier, VT 05602
(802)828-2401 (011167)

Tuition (Full Time):

Resident: $200.00 Non Resident: $400.00

Solar Related Courses

Alternative Energy

Student Level: All Levels
Duration: No. of weeks: 3.0
Hrs. per week: 12.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No

Topics Covered Extensively: Alternate Energy Sources; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems

Community Energy Planning

Instructor: Fischer, Howard
(802)828-2801
Student Level: All Levels
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 37.5
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Solar Law/Legislation; Solar Marketing/Economic Analysis

Independent Studies in Water Power and Solar House Construction

Instructor: Fischer, Howard
(802)828-2801
Student Level: All Levels
Contact Hours: 37.5
Offered: Day; Evening
Course Fee: Resident: $70.00
Non Resident: $140.00
Prerequisites: No

Topics Covered Extensively: Solar Home Construction; Wind Energy Conversion Systems

Practical Applications of Solar Energy Today

Instructor: Spiro, Jill
(802)254-9781
Student Level: All Levels
Duration: No. of weeks: 11.0
Hrs. per week: 3.5
Contact Hours: 37.5
Classroom: 27.5
Lab: 10.0
Offered: Evening; Weekend
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No

Topics Covered Extensively: Appropriate Technology; Components-Solar; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Greenhouse Design and Management

Instructor: Spiro, Jill
(802)254-9781

Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 3.5
Contact Hours: 25.0
Classroom: 20.0
Lab: 5.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Marketing/Economic Analysis; Solar Systems Installation/ Maintenance

TAO CENTER OF SELF-RELIANCE INCORPORATED

42 Elm Street
Rutland, VT 05701
(802)773-2042 (091010)

Tuition (Full Time):

Resident: $325.00 Non Resident: $325.00

Solar Technical Training

TAO Solar Building School for Owner - Builders

Degree: Certificate
Passive Solar Home Construction and Design
Department: Education Outreach
Contact: Chipka, Stewart
(802)773-2042
Program Training: Architecture-Solar Specialization; Solar Energy Education; Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/ Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

TAO Solar Building School for Owner-Builders

Program: TAO Solar Building School for Owner - Builders
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 4.0
Hrs. per week: 40.0
Contact Hours: 160.0
Classroom: 40.0
Independent Study: 60.0
Job: 60.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $325.00
Non Resident: $325.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Heating; Solar Home Construction

Virginia

NORTHERN VIRGINIA COMMUNITY COLLEGE

8333 Little River Turnpike
Annandale, VA 22003
(703)323-3000 (003727)

Tuition (Full Time):

Resident: $100.00 Non Resident: $335.00

Curriculum with Solar Study

Supervised Study - Solar Energy

Air Conditioning and Refrig. With Solar Option
Department: Environmental and Natural Science
Contact: Barbaro, R. D.
Nasseri, K.
(703)670-2191 EXT.250
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Supervised Study - Solar Energy I

Course Number: AIRC 298
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Supervised Study - Solar Energy II

Course Number: AIRC 299
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Supervised Study - Solar Energy III

Course Number: AIRC 198
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Solar Related Courses

Building Mechanical Equipment

Course Number: ARCH 237
Instructor: Laws, Thomas F.
(703)323-4230
Department: Visual Arts and Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Plumbing Techniques; Process Heat

SOUTHSIDE VIRGINIA COMMUNITY COLLEGE

Alberta, VA 23868
(804)949-7111 (008661)

Tuition (Full Time):

Resident: $120.00

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration

Degree: Certificate
Air Conditoning, Heating and Refrigeration
Department: Technology
Contact: Fuqua, Norman
(804)949-7111 EXT.134
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Heating Concepts

Course Number: AIRC 198
Instructor: Fuqua, Norm
(804)949-7111 EXT.134
Department: Technology
Program: Air Conditioning, Heating and Refrigeration
Student Level: All Levels

Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Seminar: 20.0
Lab: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Washington

NORTH SEATTLE COMMUNITY COLLEGE

9600 College Way North
Seattle, WA 98103
(206)634-4444 (009704)

Curriculum with Solar Study

Heating, Air Conditioning and Refrigeration Technology

Degree: Associate
Heating, Air Conditioning and Refrigeration Technology
Department: Engineering Related Technology
Contact: Musgrove, William R.
(206)634-4700
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Solar Technology

Course Number: ECT 207
Instructor: Stepnich, Ivan C.
(206)634-4700
Department: Engineering Technologies
Program: Heating, Air Conditioning and Refrigeration Technology
Student Level: All Levels
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 18.0
Lab: 18.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

SEATTLE OPPORTUNITIES INDUSTRIALIZATION CENTER INCORPORATED

315 22nd Avenue South
Seattle, WA 98144
(206)223-2814 (061116)

Tuition (Full Time):

Resident: $2,600.00

Solar Technical Training

Solar Installer's Training

Degree: Certificate
Carpentry and Plumbing/Pipefitting
Department: Vocational Programs
Program Training: Solar System Installation-Residential; Plumbing-Solar Specialization

Program and Curriculum Related Courses

Solar Installation Training

Department: Vocational Programs
Program: Solar Installer's Training
Duration: No. of weeks: 8.0
Hrs. per week: 32.0
Contact Hours: 256.0
Classroom: 86.0
Job: 32.0
Lab: 138.0
Offered: Day
Course Fee: Resident: $2,600.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Greenhouse Techniques; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

West Virginia

PARKERSBURG COMMUNITY COLLEGE

Route 5
P O Box 167A
Parkersburg, WV 26101
(304)424-8000 (003828)

Non Resident: $13.00

Solar Technical Training

Air Conditioning and Refrigeration

Degree: Certificate
Applied Sciences
Department: Air Conditioning and Refrigeration
Contact: Schmidt, L. G.
(304)424-8251

Program Training: Solar Energy Education; Solar System Installation-Residential; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Heat

Course Number: ACR 299
Instructor: Schmidt, L. G.
(304)424-8251
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Lab: 108.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Wisconsin

DISTRICT ONE TECHNICAL INSTITUTE

Eau Claire, WI 54701
(715)836-3975 (005304)

Solar Related Courses

*Alternate Energy Systems **

Instructor: Dougherty, Thomas A.
(705)836-2828
Department: Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 4.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating; Solar Cooling

*Solar Energy **

Department: Evening College
Student Level: All Levels
Duration: No. of weeks: 6.0
Hrs. per week: 2.0
Contact Hours: 12.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Systems Design

MORAINE PARK TECHNICAL INSTITUTE

Fond Du Lac, WI 54935
(414)922-8611 (009256)

Solar Technical Training

*Solar Energy **

Department: Community Services
Contact: Pasch, Rodney
(414)922-8611

Program Training: General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

*Solar Applications for the Construction Industry **

Course Number: 401/479
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 1.0
Hrs. per week: 6.0
Contact Hours: 6.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Home Construction

*Solar Energy - Air Handling Systems **

Course Number: 401/483
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 1.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Heat and Energy Transfer; Components-Solar; Solar Heating

*Solar Energy for Realtors **

Course Number: 401/425
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 2.0
Hrs. per week: 5.0
Contact Hours: 10.0
Topics Covered Extensively: Alternate Energy Sources

*Solar Energy Seminar **

Course Number: 401/482
Instructor: Pasch, Rodney
(414)922-9611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 4.0
Contact Hours: 4.0
Classroom: 4.0
Topics Covered Extensively: Alternate Energy Sources

*Solar Heat and Wind **

Course Number: 401/480
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 2.0
Hrs. per week: 10.0
Contact Hours: 20.0
Topics Covered Extensively: Solar Heating; Wind Energy Conversion Systems

*Wind Energy Applications **

Course Number: 401/484
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 1.0
Hrs. per week: 6.0
Contact Hours: 6.0
Topics Covered Extensively: Distributed Solar Power Systems; Wind Energy Conversion Systems

WEST CENTRAL WISCONSIN COMMUNITY ACTION AGENCY

525 Second Street
Glenwood City, WI 54013
(715)235-4248 (091050)

Solar Technical Training

Solar Training

Degree: Certificate
Residential Installation - Active and Passive
Department: Solar Util., Econ. Dev. and Employment
Contact: Hewitt, David C.
(715)235-4248

Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Program: Solar Training

Solar Training
Instructor: Hewitt, David (715)235-4248
Department: SUEDE
Program: Solar Training
Student Level: All Levels
Duration: No. of weeks: 38.0
Hrs. per week: 40.0
Contact Hours: 1520.0
Classroom: 280.0
Independent Study: 40.0
Workshop: 80.0
Job: 999.0
Lab: 120.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

WISCONSIN INDIANHEAD TECHNICAL INSTITUTE AT SUPERIOR

600 North 21st Street
Superior, WI 54880
(715)395-6677 (090140)

Solar Related Courses

Energy Alternatives
Course Number: 606/170
Instructor: Ziesler, Anton (715)394-6677 EXT.259
Department: Trade and Industry
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 18.0
Lab: 72.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Systems Testing/Evaluation

Wyoming

SHERIDAN COLLEGE

Sheridan, WY 82801 (003930)

Curriculum with Solar Study

*Solar Energy Technology **
Degree: Associate Engineering Technology - Solar Option
Department: Career - Technology
Contact: Ohm, Kenneth R. (307)674-6446
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

*Energy Storage **
Course Number: 152
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Energy Storage Systems; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

*Installation and Service - Solar System **
Course Number: 158
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Heating; Solar Cooling

*Introduction to Solar Heating and Cooling **
Course Number: 150
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Introduction to Solar Energy; Materials; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Solar Cooling

*Solar Collectors **
Course Number: 151
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Testing/Evaluation

*Solar Energy Fundamentals **
Course Number: 19/190
Instructor: Ohm, Kenneth R. (307)674-6446
Department: Career/Technology
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 48.0
Lab: 12.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

*Solar Heating and Cooling Systems **
Course Number: 155
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Energy Storage Systems; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling

*Wind Systems **
Course Number: 153
Program: Solar Energy Technology *
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Wind Energy Conversion

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Golden, Colorado 80401

Operated for the
U.S. Department of Energy
under Contract No. EG-77-C-01-4042

September 1980
SERI/SP-751-695