

Solar Energy Technical Training Directory

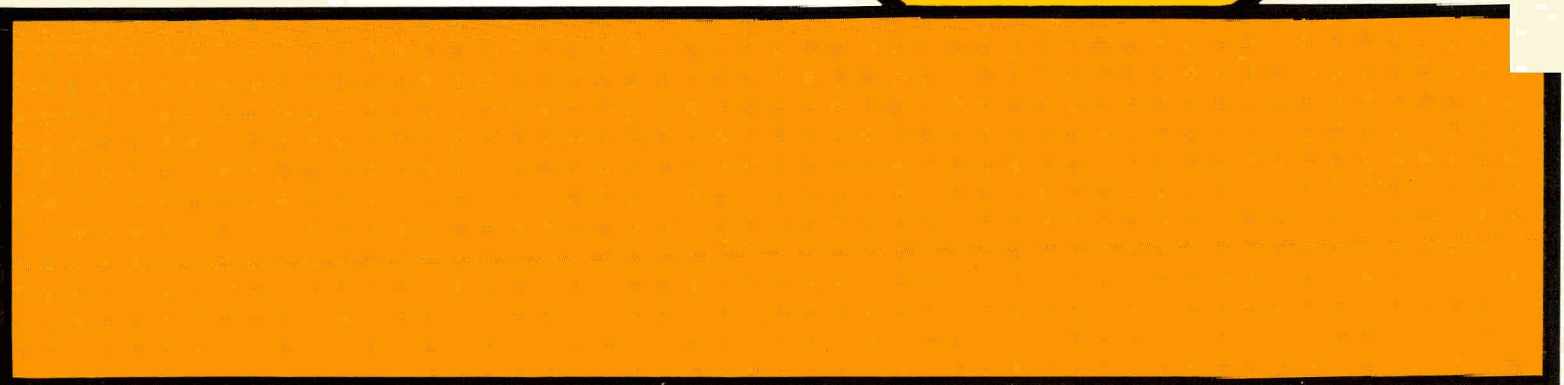
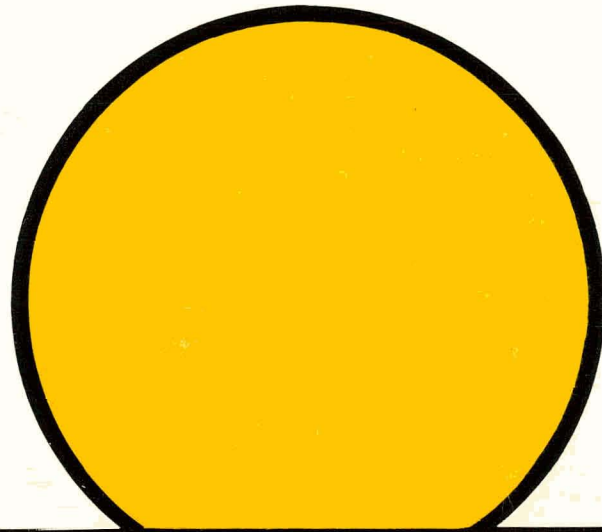
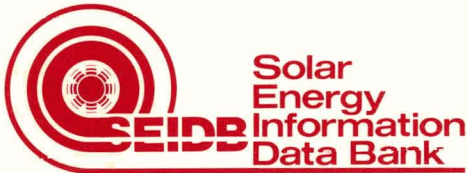
MASTER

George Corcoleotes
Katherine Kramer
Kevin O'Connor

Solar Energy Research Institute
June 1979

Prepared for the
United States Department of Energy
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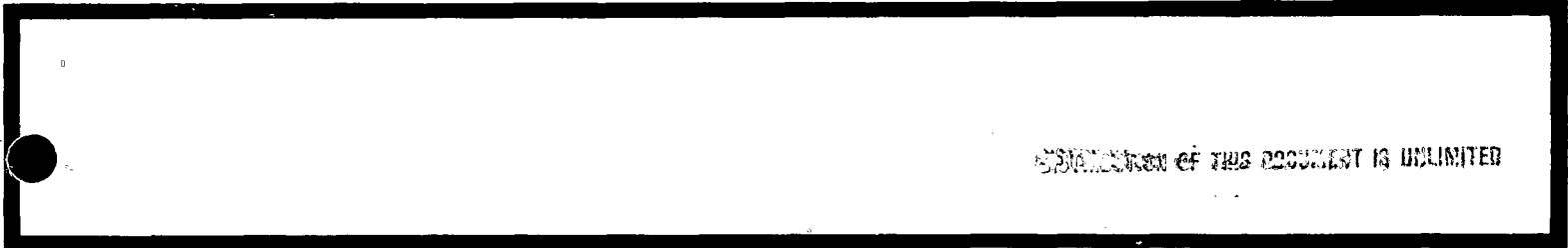
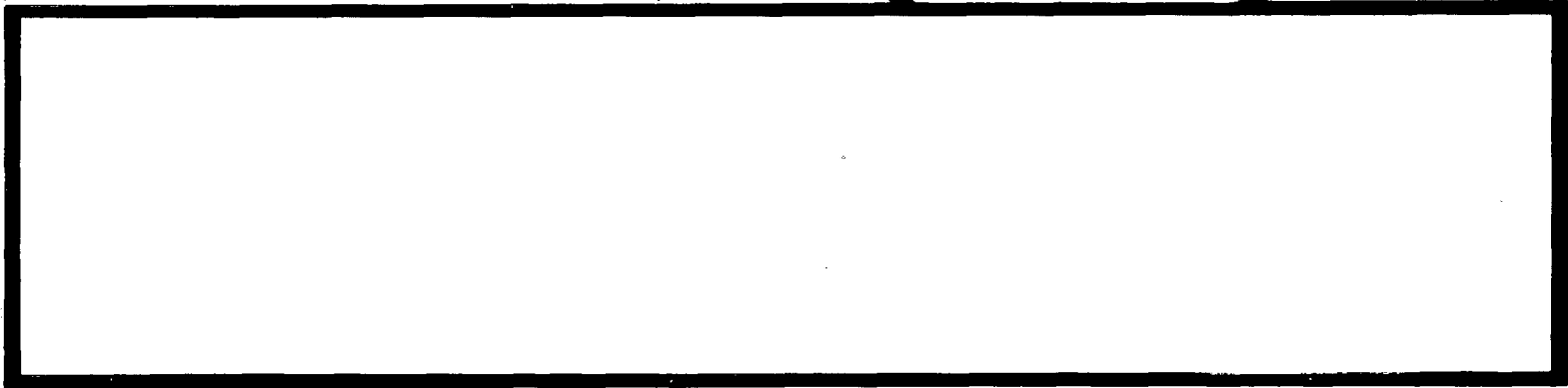
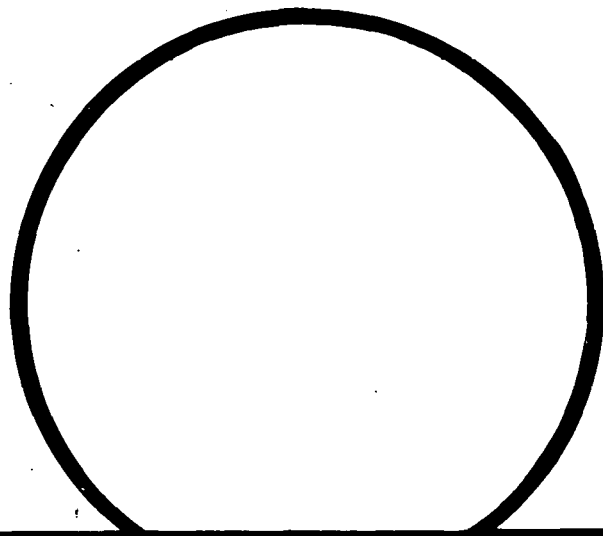
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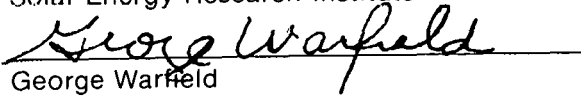
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Preface

This **Directory** was prepared as part of Task #4228, Vocational Training Programs, of the Academic Programs Branch of the Solar Energy Research Institute (SERI). The report reflects the current status of available solar energy educational offerings in the technical training area. The completeness of the **Directory** reflects the most thorough effort to gather national information on solar educational courses, programs and curricula.

Approved for:
Solar Energy Research Institute



George Warfield

Director for
Technology Dissemination

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Solar Energy Technical Training Directory

First Edition

Introduction

The **Solar Energy Technical Training Directory** is prepared by the Solar Energy Research Institute (SERI) as a subset of the first edition of the **National Solar Energy Education Directory**. This technical training directory is intended to be a quick reference for students, counselors, researchers, and others having an interest in solar technical training programs.

Most institutions currently reporting technical training programs are vocational-technical schools and community or junior colleges. Information was gathered from a 1978 national survey of post-secondary institutions. Only those institutions which indicated offering solar technical training activities are included in the **Solar Energy Technical Training Directory**.

All survey information is maintained in the computerized Education Data Base produced by SERI's Academic and International Programs and Information Systems Divisions in cooperation with the Office of U.S. Congressman George E. Brown, Jr., and the Congressional Solar Coalition. The Education Data Base is one of many data bases being developed for the Solar Energy Information Data Bank, mandated by Congress to provide solar information to Government, the scientific and educational communities, and the private sector. SERI is leading the development of the Solar Energy Information Data Bank on behalf of the U.S. Department of Energy.

Note to Users

Secondary sources of information used in this report are indicated by an asterisk (*) in the directory text. The list of institutions to which the surveys were addressed was obtained from the National Center for Education Statistics. Revisions or additions to be included in future editions of this publication may be addressed to Academic Programs Branch, Attn: George Corcoleotes, Solar Energy Research Institute, 1536 Cole Blvd., Golden CO 80401. Telephone (303) 231-1831. Numbers in parentheses to the right of institution names are for identification and should be used when submitting revisions or additions.

Directory Organization

The Directory lists institutions alphabetically by state. Each listing includes an institution address and telephone number, solar programs or curricula offered and detailed solar course information. An alphabetical index of institutions appears at the back of the Directory.

*The **National Solar Energy Education Directory** may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402; stock number 061-000-00210-3, price \$4.75. The **National Directory** includes complete information (indexed, 279 pages) on solar courses, programs, and curricula offered by all post-secondary institutions.

ALABAMA, ALASKA

None

ARIZONA

Yavapai College [1079]
Prescott, Arizona 86301
(602) 445-7300

Programs and Curricula

Solar Energy Technology

Contact: Minkler, L./ Beverly, G./ Strom, L.
(602) 445-7300

Students Taking or Completing Offering:
Do-it-yourself Homeowner,
Installer-Residential (Solar Systems)

Solar Related Courses

Here Comes the Sun

Instructor: Minkler, Lyle
(602) 445-5264
Course Number: PAS100
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Classroom: 15
Topics Covered Extensively: Heat and Energy Transfer;
Intro. to Solar Energy; Solar Economics; Solar Collector
Evaluation/Design
Number of Times Taught: 1
Average Enrollment: 28

Methane, Wind-Electricity, Wood-Alternate Energy

Instructor: Beverly, Gary
(602) 445-7300
Course Number: PHS109
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Biomass Conversion; Elec'l
Generation, Small Scale
Number of Times Taught: 4
Average Enrollment: 14

Solar Cookers

Instructor: Minkler, Lyle
(602) 445-5264
Course Number: PHS105
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Solar Collector Evaluation/
Design

Solar Greenhouse

Instructor: Beverly, Gary
(602) 445-7300
Course Number: PHS107
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Appropriate Technology;
Energy Storage; Heat and Energy Transfer; Passive Solar
Technology; Solar System Components; Solar Systems
Design; Space Heating
Number of Times Taught: 5
Average Enrollment: 16

Solar Heating, Air and Water Systems

Instructor: Minkler, Lyle
(602) 445-5264
Course Number: PHS101
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Appropriate Technology;
Energy Storage; Solar System Components; Solar Systems
Design
Number of Times Taught: 1
Average Enrollment: 15

Solar Heating, Passive and Hybrid Systems

Instructor: Frerking, Mike
Course Number: PHS102
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Energy Storage; Heat and
Energy Transfer; Passive Solar Technology; Solar System
Components; Solar Home Construction; Solar Collector
Evaluation/Design; Space Heating
Number of Times Taught: 1
Average Enrollment: 9

Solar Heating, Retrofit Systems

Instructor: Minkler, Lyle
(602) 445-7300
Course Number: PHS104
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Appropriate Technology;
Energy Storage; Heat and Energy Transfer; Solar System
Components; Solar Economics; Solar Law/Legislation;
Solar Collector Evaluation/Design; Solar Systems Design;
Space Heating

Solar Hot Water

Instructor: Beverly, Gary
(602) 445-7300
Course Number: PHS103
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 5 Weeks, 3.0 hrs per week
Contact Hours: 15
Topics Covered Extensively: Appropriate Technology;
Energy Storage; Heat and Energy Transfer; Plumbing
Techniques; Solar System Components; Solar Economics;
Solar Collector Evaluation/Design; Solar Systems Design;
Domestic Hot Water
Number of Times Taught: 1
Average Enrollment: 4

Solar Laboratory 121

Instructor: Minkler, Lyle
(602) 445-7300
Course Number: PHS121
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 6 Weeks, 4.5 hrs per week
Contact Hours: 27
Classroom: 6
Laboratory: 21
Topics Covered Extensively: Solar Systems Installation;
Solar Systems Maintenance; Solar Systems Testing and
Evaluation; Domestic Hot Water; Space Heating; Space
Cooling
Number of Times Taught: 1
Average Enrollment: 25

Solar Laboratory 122

Instructor: Minkler, Lyle
(602) 445-7300
Course Number: PHS122
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 6 Weeks, 4.5 hrs per week
Contact Hours: 27
Classroom: 6
Laboratory: 21

Topics Covered Extensively: Solar Systems Installation;
Solar Systems Maintenance; Solar Systems Testing and
Evaluation, Domestic Hot Water; Space Heating; Space
Cooling

Number of Times Taught: 1
Average Enrollment: 25

Solar Laboratory 123

Instructor: Minkler, Lyle
(602) 445-7300
Course Number: PHS123
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 6 Weeks, 4.5 hrs per week
Contact Hours: 27
Classroom: 6
Laboratory: 21

Topics Covered Extensively: Solar Systems Installation;
Solar Systems Maintenance; Solar Systems Testing and
Evaluation; Domestic Hot Water; Space Heating; Space
Cooling

Number of Times Taught: 1
Average Enrollment: 25

Solar Laboratory 124

Instructor: Minkler, Lyle
(602) 445-7300
Course No. PHS124
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 6 Weeks, 4.5 hrs per week
Contact Hours: 27
Classroom: 6
Laboratory: 21

Topics Covered Extensively: Solar Systems Installation;
Solar Systems Maintenance; Solar Systems Testing and
Evaluation; Domestic Hot Water; Space Heating; Space
Cooling

Number of Times Taught: 1
Average Enrollment: 25

Solar Laboratory 125

Instructor: Minkler, Lyle
(602) 445-7300
Course Number: PHS125
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Duration: 6 Weeks, 4.5 hrs per week
Contact Hours: 27
Classroom: 6
Laboratory: 21

Topics Covered Extensively: Solar Systems Installation;
Solar Systems Maintenance; Solar Systems Testing and
Evaluation; Domestic Hot Water; Space Heating; Space
Cooling

Number of Times Taught: 1
Average Enrollment: 25

ARKANSAS**Mississippi County Community College [12860]**

Blytheville, Arkansas 72315
(501) 762-1020

Programs and Curricula**Solar Energy Technology**

Degree: AD, Applied Science in Solar
Technology
Contact: Hughes, G. Edward/ Benson, Chris
(501) 762-1020

Students Taking or Completing Offering:
Solar Technician

Solar Related Courses**Solar Technology Cooperative Education**

Instructor: Benson, C.M.
(501) 762-1020
Course Number: 58970
Department: Applied Science
Program or Curriculum: Solar Energy Technology
Credits: 6
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 6.0 hrs per week
Contact Hours: 90

Topics Covered Extensively: Plumbing Techniques; Solar
Systems Installation; Solar Systems Maintenance; Solar
Systems Testing and Evaluation; Domestic Hot Water; Elec'l
Generation, Central; Elec'l Generation, Small Scale; Process
Heat, Agricultural; Process Heat, Industrial; Space Heating;
Space Cooling

Number of Times Taught: 1
Average Enrollment: 10

Solar Technology I

Instructor: Benson, C.M.
(501) 762-1020
Course Number: 58003
Department: Applied Science
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 3.0 hrs per week
Contact Hours: 45
Classroom: 45

Topics Covered Extensively: Appropriate Technology;
Energy Storage; Heat and Energy Transfer; Intro. to Solar
Energy; Passive Solar Technology; Solar Collector
Evaluation/Design; Domestic Hot Water; Space Heating;
Space Cooling

Number of Times Taught: 1
Average Enrollment: 20

Solar Technology I Lab.

Instructor: Benson, C.M.
(501) 762-1020
Course Number: 58001
Department: Applied Science
Program or Curriculum: Solar Energy Technology
Credits: 1
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 2.0 hrs per week
Contact Hours: 30
Laboratory: 30

Topics Covered Extensively: Energy Storage; Materials
Research; Plumbing Techniques; Solar System
Components; Solar Systems Testing and Evaluation;
Domestic Hot Water; Space Heating; Space Cooling

Number of Times Taught: 1
Average Enrollment: 10

Solar Technology II

Instructor: Benson, C.M.
(501) 762-1020
Course Number: 58203
Department: Applied Science
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore

Duration: 15 Weeks, 3.0 hrs per week
 Contact Hours: 45
 Classroom: 45
 Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Photovoltaics; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Elec'l Generation, Central; Elec'l Generation, Small Scale; Space Heating; Space Cooling
 Number of Times Taught: 1
 Average Enrollment: 20

Solar Technology II Lab.

Instructor: Benson, C.M.
 (501) 762-1020
 Course Number: 58201
 Department: Applied Science
 Program or Curriculum: Solar Energy Technology
 Credits: 1
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 2.0 hrs per week
 Contact Hours: 30
 Laboratory: 30

Topics Covered Extensively: Materials Research; Photovoltaics; Plumbing Techniques; Solar System Components; Solar Systems Design; Solar Systems Testing and Evaluation; Elec'l Generation, Central; Elec'l Generation, Small Scale; Space Cooling

Number of Times Taught: 1
 Average Enrollment: 10

Solar Technology III

Instructor: Benson, C.M.
 (501) 762-1020
 Course Number: 58403
 Department: Applied Science
 Program or Curriculum: Solar Energy Technology
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 3.0 hrs per week
 Contact Hours: 45
 Classroom: 45

Topics Covered Extensively: Energy Storage; Photovoltaics; Plumbing Techniques; Solar Energy Policy Development; Solar Economics; Solar Systems Design; Domestic Hot Water; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling

Number of Times Taught: 1
 Average Enrollment: 20

Solar Technology III Laboratory

Instructor: Benson, C.M.
 (501) 762-1020
 Course Number: 58401
 Department: Applied Science
 Program or Curriculum: Solar Energy Technology
 Credits: 1
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 2.0 hrs per week
 Contact Hours: 30
 Laboratory: 30

Topics Covered Extensively: Energy Storage; Material Materials Research; Photovoltaics; Plumbing Techniques; Solar System Components; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling

Number of Times Taught: 1
 Average Enrollment: 10

Solar Topics

Instructor: Benson, C.M.
 (501) 762-1020
 Course Number: 58700
 Department: Applied Science
 Program or Curriculum: Solar Energy Technology
 Credits: 1
 Student Level: Freshman or Sophomore

Duration: 15 Weeks, 2.0 hrs per week
 Contact Hours: 30
 Classroom: 15
 Laboratory: 15

Topics Covered Extensively: Energy Storage; Photovoltaics; Plumbing Techniques; Solar Energy Policy Development; Solar System Components; Solar Economics; Solar Home Construction; Solar Law/Legislation; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

Number of Times Taught: 1
 Average Enrollment: 5

CALIFORNIA

Antioch University West [90520]

650 Pine Street
 San Francisco, California 94108

Programs and Curricula

***Solar Energy and Design**

Degree: BA, MS, Environmental Studies and Appropriate Technology
 Contact: Nelson, Lynn
 (415) 956-1688

Solar Related Courses

***Courses in Design; Construction of Solar Systems**

Instructor: Olkowski, Helga
 Department: Farallones Institute
 Program or Curriculum: *Solar Energy and Design
 Topics Covered Extensively: Passive Solar Technology; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating; Space Cooling

Cabrillo College [1124]

Aptos, California 95003
 (408) 425-6000

Programs and Curricula

Solar Technology

Degree: AD, Science
 Contact: Burton, Dave
 (408) 425-6304

Students Taking or Completing Offering:
 Solar Technician

Solar Related Courses

Alternate Energy Systems (Solar Technology)

Course Number: CET60ABCD
 Department: Indust. - Elect. Tech.
 Program or Curriculum: Solar Technology
 Credits: 8
 Student Level: All Levels
 Duration: 16 Weeks, 15.0 hrs per week
 Contact Hours: 240
 Classroom: 80
 Laboratory: 160

Topics Covered Extensively: Alternate Energy Sources; Materials Research; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation

Applications of Solar Energy in Agriculture

Course Number: CET61
 Program or Curriculum: Solar Technology
 Credits: 3
 Student Level: All Levels
 Duration: 16 Weeks, 5.0 hrs per week
 Contact Hours: 80
 Classroom: 32
 Laboratory: 40

Topics Covered Extensively: Biomass Conversion; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Passive Solar Technology; Solar

System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Process Heat, Agricultural

Storage; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation

Solar Architecture

Course Number: CET62
Program or Curriculum: Solar Technology
Credits: 3
Student Level: All Levels
Duration: 16 Weeks, 5.0 hrs per week
Contact Hours: 80
Classroom: 32
Laboratory: 48

Topics Covered Extensively: Energy Conservation; Passive Solar Technology; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating

Solar Electronics

Course Number: CET53
Department: Indus. - Elect. Tech.
Program or Curriculum: Solar Technology
Credits: 2
Student Level: All Levels
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48

Topics Covered Extensively: Photovoltaics; Solar System Components; Domestic Hot Water; Elec'l Generation, Central; Elec'l Generation, Small Scale

Solar Energy in Agriculture

Course Number: CET54
Program or Curriculum: Solar Technology
Credits: 3
Student Level: All Levels
Duration: 16 Weeks, 4.0 hrs per week
Contact Hours: 64
Classroom: 32
Laboratory: 32

Topics Covered Extensively: Biomass Conversion; Intro. to Solar Energy; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Process Heat, Agricultural; Space Heating

Solar Energy in Building Design

Course Number: CET52
Department: Industrial - Electrical Technology
Program or Curriculum: Solar Technology
Credits: 3
Student Level: All Levels
Duration: 16 Weeks, 4.0 hrs per week
Contact Hours: 64

Topics Covered Extensively: Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design

Solar Energy Technology and Fabrication

Course Number: CET60ABCD
Department: Industrial - Electrical Technology
Program or Curriculum: Solar Technology
Credits: 8
Student Level: All Levels
Duration: 16 Weeks, 12.0 hrs per week
Contact Hours: 192
Laboratory: 192

Topics Covered Extensively: Solar System Components; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating

Solar Retrofitting and Weatherizing

Course Number: CET51
Department: Industrial - Electrical Technology
Program or Curriculum: Solar Technology
Credits: 2
Student Level: All Levels
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48

Topics Covered Extensively: Energy Conversion; Energy

California State University-Sonoma [1156]
Rohnert Park, California 94928
(707) 664-2880

Programs and Curricula

Solar Energy Technical Training Program

Degree: Certificate
Contact: Roy Irving
Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Independent Studies in Solar Energy

Instructor: Roy Irving
(707) 664-2577
Course Number: ENSP 337D
Program or Curriculum: Solar Energy Technician Training Program
Credits: 4
Student Level: Junior or Senior
Duration: 15 weeks, 12 hrs per week
Contact Hours: 180
Independent Study: 180
Number of Times Taught: 2
Average Enrollment: 20

Solar Energy, Direct Uses

Instructor: Roy Irving
(707) 664-2577
Course Number: ENSP 337
Program or Curriculum: Solar Energy Technical Training Program
Credits: 3
Student Level: Junior or Senior
Duration: 15 weeks, 3 hrs per week
Contact Hours: 45
Classroom: 45
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar System Components; Domestic Hot Water; Space Heating
Number of Times Taught: 14
Average Enrollment: 35

Advanced Solar Energy Seminar

Instructor: Roy Irving
(707) 664-2577
Course Number: ENSP 437
Program Curriculum: Solar Energy Technical Training Program
Credits: 3
Student Level: Junior or Senior
Duration: 15 weeks, 3 hrs per week
Contact Hours: 45
Classroom: 45
Topics Covered Extensively: Heat and Energy Transfer; Passive Solar Technology; Solar Economics; Solar Law/Legislation; Solar System Design; Domestic Hot Water; Space Heating
Number of Times Taught: 1
Average Enrollment: 28

Center for Employment Training [90350]
425 So. Market St.
San Jose, California 95113

Solar Related Courses

*Building Maintenance

Instructor: Rodriguez, Rudolph
Duration: 6 Weeks

Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation

Cerro Coso Community College [10111]
Ridgecrest, California 93555
(714) 375-5001

Programs and Curricula

***Solar Engineering Technology**

Degree: AD, Applied Science - Solar Engineering Technology
Contact: Dodge, Dick
(714) 375-5001
Students Taking or Completing Offering: Solar Technician

Chaffey College [1163]
Alta Loma, California 91701
(714) 987-1737

Solar Related Courses

***Solar Energy I**

Instructor: Rothwell, Robert
Course Number: 507
Department: Indus. Tech.
Duration: 12 Weeks, 6.0 hrs per week
Contact Hours: 72
Topics Covered Extensively: Intro. to Solar Energy; Passive Solar Technology; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

***Solar Energy II**

Instructor: Rothwell, Robert
Course Number: 508
Department: Indus. Tech.
Duration: 12 Weeks, 6.0 hrs per week
Topics Covered Extensively: Energy Conversion; Energy Storage; Heat and Energy Transfer; Photovoltaics; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation

Coastline Community College [29027]
Fountain Valley, California 92708
(714) 963-0811

Programs and Curricula

***Solar Technician**

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

***Solar Seminar**

***Ten Courses in Energy Management**

Program or Curriculum: Solar Technician

Cosumnes River College [7536]
Sacramento, California
(916) 421-1000

Programs and Curricula

Environmental Design-Introduction to Solar Energy Systems

Degree: AD, Environmental Design
Contact: Papousek, Connie
Students Taking or Completing Offering: Installer-Residential (Solar System); Installer-Commercial (Solar System); Solar Technician

Solar Related Courses

ED47, Alternate Energy Systems

Instructor: House, Harold
Course Number: 310A-01
Department: Environmental Design
Program or Curriculum: Envir. Des. - Intro. Sol. Ener. Systems

Credits: 2
Duration: 8 Weeks, 3.0 hrs per week
Contact Hours: 24
Classroom: 24

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Intro. to Solar Energy; Photovoltaics

Number of Times Taught: 3
Average Enrollment: 15

Intro. to Solar Energy Systems

Instructor: House, Harold
Course Number: ED31
Department: Environmental Design
Program or Curriculum: Envir. Des. - Intro. Sol. Ener. Systems

Credits: 2
Duration: 4 Weeks, 16.0 hrs per week
Contact Hours: 65
Classroom: 48
Laboratory: 16

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating; Space Cooling

Residential Energy Conservation

Instructor: House, Harold
Course Number: 3105-01
Department: Environmental Design
Program or Curriculum: Envir. Des. - Intro. Sol. Ener. Systems

Credits: 2
Duration: 3 Weeks, 8.0 hrs per week
Contact Hours: 24
Classroom: 24

Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Marketing/Market Analysis; Passive Solar Technology; Solar Home Construction; Solar Systems Design; Domestic Hot Water; Space Heating; Space Cooling

Number of Times Taught: 3
Average Enrollment: 15

Evergreen Valley College [12452]
San Jose, California 95121
(408) 274-7900

Programs and Curricula

***Solar Technician**

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

***Solar and Energy Seminar**

***Solar House**

***Two Courses on Solar**

Program or Curriculum: *Solar Technician

Long Beach City College [1219]
Long Beach, California 90808
(213) 420-4111

Programs and Curricula

***Air Conditioning and Refrigeration**

Solar Related Courses

***Solar Segment**

Department: Air Cond. & Refrig.
Program or Curriculum: *Air Cond. & Refrig.

Modesto Junior College [1240]

Modesto, California 95350
(209) 526-2000

Programs and Curricula

External - Project Sunrise

Contact: Wilson, E. William
(209) 526-2000

Solar Related Courses

Solar Energy Applications

Instructor: Wilson, E. William
(209) 526-2000
Course Number: PS368
Department: Dept. Engineering, Physical
Science and Mathematics
Program or Curriculum: External - Project Sunrise
Credits: 3
Student Level: All Levels
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Classroom: 42
Laboratory: 6

Topics Covered Extensively: Alternate Energy Sources;
Energy Conservation; Energy Storage; Passive Solar
Technology; Solar System Components; Solar Economics;
Solar Home Construction; Domestic Hot Water; Space
Heating; Space Cooling; Wind Power, Small Systems
Number of Times Taught: 4
Average Enrollment: 35

Monterey Peninsula College [1242]

Monterey, California 93940
(408) 649-8000

Programs and Curricula

Solar Collector Fabrication

Degree: Certificate-Solar Collectors
Contact: Owen, Patrick
(408) 649-1150

Solar Related Courses

Introduction to Solar and Alternate Energy Sources

Instructor: Dick Lee
(408) 649-8000
Course Number: 30295-40
Department: Engineering
Program or Curriculum: Solar Collector
Fabrication
Credits: 3
Student Level: All Levels
Duration: 18 weeks, 3 hrs per week
Contact Hours: 54

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conversion; Energy
Storage; Passive Solar Technology; Photovoltaics; Solar
System Components; Solar Economics; Solar Collector
Evaluation/Design; Solar Systems Design; Solar Systems
Testing and Evaluation; Domestic Hot Water; Space Heating;
Space Cooling
Number of Times Taught: 3
Average Enrollment: 26

Mount San Antonio College [1245]

Walnut, California 91789
(714) 598-2811

Programs and Curricula

Air Conditioning, Heating and Ventilation

Degree: AD; Air Conditioning, Heating
and Refrigeration
Contact: Dillon, Clifford
(714) 594-5611

Students Taking or Completing Offering:
Electrician, Solar Technician, Installer-Residential
(Solar System), Installer-Commercial (Solar System),
Plumber

Solar Related Courses

Solar and Alternate Energy Sources

Instructor: Bormann, Jay
(714) 594-5611
Course Number: 70
Department: Electronics
Program or Curriculum: Air Cond., Heat., and Vent.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 18 Weeks, 3.0 hrs per week
Contact Hours: 54
Classroom: 54

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Heat and
Energy Transfer; Intro. to Solar Energy; Plumbing Tech-
niques; Solar System Components; Solar Economics; Solar
Systems Installation; Solar Systems Maintenance; Solar
Systems Testing and Evaluation; Space Heating

Solar Energy Systems Installation

Instructor: Bormann, Jay
(714) 594-5611
Course Number: 71/71L
Department: Electronics
Program or Curriculum: Air Cond., Heat., and Vent.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 18 Weeks, 6.0 hrs per week
Contact Hours: 108
Classroom: 54
Laboratory: 54

Topics Covered Extensively: Solar Systems Design; Solar
Systems Installation; Solar Systems Maintenance; Solar
Systems Testing and Evaluation

Office of Appropriate Technology [90530]

1530 10th Street
Sacramento, California 95814

Programs and Curricula

*Training Program for Installers

Contact: Jan Philbin
(916) 445-1803

Students Taking or Completing Offering:
Installer-Residential (Solar System),
Installer-Commercial (Solar System)

Redwoods, College of the [1185]

Eureka, California 95501
(707) 443-8411

Solar Related Courses

Solar Heating A

Instructor: Mills, David
(707) 443-8411
Course Number: ENSC 20A
Department: Env. Sci.
Credits: 1
Student Level: All levels
Duration: 12 Weeks, 1.0 hrs per week
Contact Hours: 12
Classroom: 12

Topics Covered Extensively: Alternate Energy Sources;
Energy Conservation; Energy Conversion; Energy
Storage; Heat and Energy Transfer; Intro. to Solar Energy;
Photovoltaics; Passive Solar Technology; Solar System
Components; Solar Economics; Solar Home Construction;
Solar Collector Evaluation/Design; Solar Systems Design;
Solar Systems Installation; Solar Systems Testing and
Evaluation; Domestic Hot Water; Swimming Pool Heating;
Space Heating

Number of Times Taught: 1
Average Enrollment: 50

Solar Heating B

Instructor: Mills, David
(707) 443-8411
Course Number: ENSC 20B
Department: Env. Sci.
Credits: 1
Student Level: All levels
Duration: 12 Weeks, 1.0 hrs per week
Contact Hours: 12
Classroom: 12

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 1
Average Enrollment: 50

Solar Heating C

Instructor: Mills, David
(707) 443-8411
Course Number: ENSC 20C
Department: Env. Sci.
Credits: 1
Student Level: All levels
Duration: 12 Weeks, 1.0 hrs per week
Contact Hours: 12
Classroom: 12

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installations; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 1
Average Enrollment: 50

San Diego Community College — City College

San Diego, California 92101 [8895]
(714) 238-1181

Programs and Curricula

*Solar Energy, Maintenance and Technology

Degree: AD, Advanced Degree

Solar Related Courses

*Two Courses on Solar Energy Maintenance, Technology

Program or Curriculum: *Solar Ener. Maint. and Tech.

Topics Covered Extensively: Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

San Diego Community College — Evening College [7478]

San Diego, California 92101
(714) 238-1181

Programs and Curricula

Air Conditioning, Heating, Refrigeration & Solar Heating Technology

Degree: AD, OTHER, Air Conditioning & Heating, Refrigeration & Solar Technology

Contact: Belker, Loren
(714) 238-1811

Students Taking or Completing Offering:
Solar Technician, Trade Specialty

Solar Related Courses

Advanced Solar Service Maintenance & Technology

Instructor: Faris, Theodore
Department: City Campus
Program or Curriculum: Air Cond. Heat., Refrig. and Sol. Tech.
Credits: 3
Student Level: All levels
Duration: 18 Weeks, 3.0 hrs per week
Contact Hours: 54

Topics Covered Extensively: Appropriate Technology; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 3

Air Conditioning, Heating, Refrigeration and Solar Energy

Instructor: Faris, Theodore
(714) 238-1181

Course Number: 201
Department: City Campus
Program or Curriculum: Air Cond., Heat., Refrig., and Sol. Tech.

Credits: 4
Student Level: All levels
Duration: 18 Weeks, 6.0 hrs per week
Contact Hours: 108
Classroom: 54
Laboratory: 54

Topics Covered Extensively: Appropriate Technology; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 3

Average Enrollment: 35

Solar Service Maintenance and Technology

Instructor: Faris, Theodore
(714) 238-1181

Course Number: 225
Department: City Campus
Program or Curriculum: Air Cond., Heat., Refrig., and Sol. Tech.

Credits: 3
Student Level: All levels
Duration: 18 Weeks, 3.0 hrs per week
Contact Hours: 54

Topics Covered Extensively: Appropriate Technology; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 3

Average Enrollment: 35

San Jose City College [1282]

San Jose, California 95128
(408) 298-2181

Programs and Curricula

*Solar Technician

Degree: AD, Science
Contact: Herrick, Clyde N./Upton, Si

Students Taking or Completing Offering:
Solar Technician

***Solar Technician**

Degree: OTHER, Certificate of Achievement
 Contact: Herrick, Clyde/Upton, Si
 Students Taking or Completing Offering:
 Solar Technician

Solar Related Courses***Solar Energy — Industrial Applications**

Instructor: Upton, Si
 Course Number: SOL 114
 Department: Solar Technology
 Program or Curriculum: *Solar Technician
 Credits: 3

***Solar Energy — Residential Applications**

Instructor: Upton, Si
 Course Number: SOL 113
 Department: Solar Technology
 Program or Curriculum: *Solar Technology
 Credits: 3

***Solar Photoelectric Conversion**

Instructor: Upton, Si
 Course Number: SOL 116
 Department: Solar Technology
 Program or Curriculum: *Solar Technician
 Credits: 2

***Solar Theory**

Instructor: Upton, Si
 Course Number: PHYSCI21
 Program or Curriculum: *Solar Technician
 Credits: 3

**Solar Technician Training Program —
 Office of Appropriate Technology [90340]**

1322 "O" Street
 Sacramento, California 95814

Programs and Curricula***Solar Technician Training Program**

Contact: Trujillo, JoAnn
 (916) 322-7190
 Students Taking or Completing Offering:
 Solar Technician

Solarcon [90490]

PO Box 14875
 San Francisco, California 94114

Solar Related Courses***Installers Workshop**

(415) 648-2159
 Department: Karellen Educational
 Services
 Topics Covered Extensively: Solar Systems Installation

COLORADO

Colorado Technical College [10148]
 Colorado Springs, Colorado 80907
 (303) 598-0200

Programs and Curricula**Solar Engineering Technology**

Degree: BS, AD, Applied Science
 Contact: Christensen, Edward
 (303) 598-0200
 Students Taking or Completing offering:
 Solar Engineer, Solar Technician

Solar Related Courses**Associate Seminar**

Instructor: Christensen, Edward
 (303) 598-0200
 Course Number: SOL 250
 Department: Solar Engineering Technology
 Program or Curriculum: Solar Engineering Technology
 Credits: 1
 Student Level: Freshman or Sophomore
 Duration: 11 Weeks, 1.0 hrs per week
 Contact Hours: 11
 Topics Covered Extensively: Alternate Energy Sources

Directed Practice

Instructor: Christensen, Edward
 (303) 598-0200
 Course Number: SOL 299
 Department: Solar Engineering Technology
 Program or Curriculum: Solar Engineering Technology
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 11 Weeks, 6.0 hrs per week
 Classroom: 66
 Number of Times Taught: 14
 Average Enrollment: 6

Introduction to Energy

Instructor: Sabo, Julius J.
 (303) 598-0200
 Course Number: SOL 100
 Department: Solar Engineering Technology
 Program or Curriculum: Solar Engineering Technology
 Credits: 3
 Student Level: All levels
 Duration: 11 Weeks, 3.0 hrs per week
 Contact Hours: 33
 Classroom: 33
 Topics Covered Extensively: Alternate Energy Sources;
 Appropriate Technology
 Number of Times Taught: 10
 Average Enrollment: 15

Solar Design I

Instructor: Christensen, Edward
 (303) 598-0200
 Course Number: SOL 220
 Department: Solar Engineering Technology
 Program or Curriculum: Solar Engineering Technology
 Credits: 4
 Student Level: Freshman or Sophomore
 Duration: 11 Weeks, 6.0 hrs per week
 Contact Hours: 66
 Classroom: 22
 Laboratory: 44
 Topics Covered Extensively: Heat and Energy Transfer; Solar
 System Components; Solar Collector Evaluation/Design;
 Solar Systems Design; Space Heating
 Number of Times Taught: 9
 Average Enrollment: 8

Solar Design II

Instructor: Christensen, Edward
 (303) 598-0200
 Course Number: SOL 221
 Department: Solar Engineering Technology
 Program or Curriculum: Solar Engineering Technology
 Credits: 4
 Student Level: Freshman or Sophomore
 Duration: 11 Weeks, 6.0 hrs per week
 Contact Hours: 66
 Classroom: 22
 Laboratory: 44
 Topics Covered Extensively: Solar System Components;
 Solar Collector Evaluation/Design; Solar Systems Design;
 Domestic Hot Water; Space Heating
 Number of Times Taught: 9

Denver, Red Rocks Campus, [9543]

Community College of
Golden, Colorado 80401
(303) 988-6160

Programs and Curricula

Solar Energy — Installation and Maintenance

Degree: AD, OTHER, Solar Energy-
Installation and Maintenance
Contact: Hilton, Craig/Hilton, Robert
(303) 988-6161

Students Taking or Completing Offering:
Educator, Researcher, Installer-Residential (Solar System),
Plumber, Sheet Metal Worker

Solar Related Courses

Advance Solar Controls

Instructor: Klima, John
(303) 988-6161
Course Number: SOM 236
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30

Topics Covered Extensively: Solar System Components;
Solar Systems Testing and Evaluation; Domestic Hot
Water; Swimming Pool Heating; Space Heating
Number of Times Taught: 1
Average Enrollment: 25

Alternate Backup Systems for Solar Energy

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 238
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30

Topics Covered Extensively: Alternate Energy Sources

Basic Sheet Metal for Solar Energy

Instructor: DuPriest, Don
(303) 988-6161
Course Number: SHM 100
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45

Topics Covered Extensively: Sheet Metal Techniques; Solar
System Components
Number of Times Taught: 3
Average Enrollment: 25

Basic Solar Controls

Instructor: Hitz, Frank
(303) 988-6161
Course Number: SQM 235
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45

Topics Covered Extensively: Solar System Components;
Solar Systems Testing and Evaluation
Number of Times Taught: 2

Average Enrollment: 30

Basic Solar Systems

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 220
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Inst. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45

Topics Covered Extensively: Alternate Energy Sources;
Energy Conservation: Intro. to Solar Energy; Plumbing
Techniques; Solar Home Construction; Solar Systems
Installation; Domestic Hot Water; Swimming Pool Heating;
Space Heating
Number of Times Taught: 6
Average Enrollment: 20

Blueprint Reading For Construction Trades

Instructor: Feister, Clarence
(303) 988-6161
Course Number: BTR 125
Department: Industrial Div.
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 4
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 68
Classroom: 45
Laboratory: 23
Number of Times Taught: 20
Average Enrollment: 20

Bricklaying For Construction Trades

Instructor: Gale, Bud
(303) 988-6161
Course Number: BRI 120
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Number of Times Taught: 8
Average Enrollment: 20

Carpentry for Construction Trades

Instructor: Hinz, Tim
(303) 988-6161
Course Number: CAR 120
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45

Topics Covered Extensively: Intro. to Solar Energy
Number of Times Taught: 8
Average Enrollment: 20

Domestic Hot Water

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 227
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45

Topics Covered Extensively: Solar Systems Installation;
Domestic Hot Water

Number of Times Taught: 4
Average Enrollment: 25

Hot Water Heating-Installation and Maintenance

Instructor: Hilton, Robert
(303) 988-6161
Course Number: PLU 206
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Plumbing Techniques
Number of Times Taught: 25
Average Enrollment: 25

Introduction to Photovoltaic and Wind Energy

(303) 988-6161
Course Number: SOM 239
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30
Topics Covered Extensively: Alternate Energy Sources;
Photovoltaics; Solar Systems Installation; Elec'l Generation,
Small Scale; Wind Power, Small Systems

Orientation of Tools, Basic Plumbing, and Drawing

Instructor: Hilton, Robert
(303) 988-6161
Course Number: PLU 100
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Plumbing Techniques
Number of Times Taught: 25
Average Enrollment: 25

Passive Solar Systems

Instructor: Shippee, Paul
(303) 988-6161
Course Number: SOM 237
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30
Topics Covered Extensively: Heat and Energy Transfer;
Passive Solar Technology; Solar Systems Design; Space
Heating
Number of Times Taught: 1
Average Enrollment: 25

Solar Engineering Technology I

Instructor: Haugseth, Larry
(303) 988-6161
Course Number: SOM 221
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 4
Student Level: All levels
Duration: 15 Weeks, 4.5 hrs per week
Contact Hours: 68
Classroom: 45
Laboratory: 23

Topics Covered Extensively: Solar Systems Design; Domestic
Hot Water; Swimming Pool Heating; Space Heating

Number of Times Taught: 4
Average Enrollment: 25

Solar Engineering Technology II

Instructor: Dahl, Mike
(303) 988-6161
Course Number: SOM 222
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Inst. and Main.
Credits: 4
Student Level: All levels
Duration: 15 Weeks, 4.5 hrs per week
Contact Hours: 68
Classroom: 45
Laboratory: 23
Topics Covered Extensively: Solar Economics; Solar
Systems Design; Domestic Hot Water; Swimming Pool
Heating; Space Heating; Space Cooling
Number of Times Taught: 3
Average Enrollment: 25

Solar Panel Arrays

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 226
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Solar System Components
Number of Times Taught: 6
Average Enrollment: 20

Solar Panel Installations

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 229
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Solar Home Construction;
Solar Systems Installation

Solar System Design and Layout

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 225
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Solar Collector Evaluation/
Design; Solar Systems Design
Number of Times Taught: 6
Average Enrollment: 25

Solar System Maintenance

Instructor: Hilton, Craig
(303) 988-6161
Course Number: SOM 228
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels

Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Solar System Components;
Solar Systems Maintenance
Number of Times Taught: 2
Average Enrollment: 25

Water Piping Methods

Instructor: Hilton, Robert
(303) 988-6161
Course Number: PLU 107
Department: Industrial Occupations
Program or Curriculum: Solar Energy-Instal. and Main.
Credits: 3
Student Level: All levels
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 15
Laboratory: 45
Topics Covered Extensively: Plumbing Techniques
Number of Times Taught: 25
Average Enrollment: 25

Otero Junior College [1362]

La Junta, Colorado 81050
(303) 384-4443

Programs and Curricula

Architecture Technology — Solar Heating Option

Degree: AD, Applied Science
Contact: Nilsen, E. W.
(303) 384-4443

Students Taking or Completing Offering:
Solar Technician, Trade Specialty

Solar Related Courses

Architecture Technology — Solar Heating Option

Instructor: Nilsen, E. W.
(303) 384-4443
Department: Construction & Manufacturing
Program or Curriculum: Arch. Tech. — Solar
Heating Option
Student Level: Freshman or Sophomore
Duration: 30 Weeks, 12.0 hrs per week
Contact Hours: 360

Topics Covered Extensively: Energy Storage; Intro. to Solar
Energy; Solar System Components; Solar Economics;
Solar Home Construction; Solar Collector Evaluation/
Design; Solar Systems Design; Solar Systems Installation;
Domestic Hot Water; Space Heating
Number of Times Taught: 0

CONNECTICUT

None

DELAWARE

Newcastle County Vocational Technical School

1417 Newport Rd. [90370]
Wilmington, Delaware 19804

Programs and Curricula

*Solar Heating of Buildings

Solar Related Courses

*Solar Heating of Buildings

Program or Curriculum: *Solar Heating of Buildings
Contact Hours: 60
Topics Covered Extensively: Energy Conversion; Energy
Storage; Intro. to Solar Energy; Solar System
Components; Solar Economics; Solar Collector Evalua-
tion/Design; Solar Systems Design; Solar Systems
Installation; Solar Systems Maintenance; Solar Systems
Testing and Evaluation

DISTRICT OF COLUMBIA

National Training Fund [90360]

1900 "L" Street NW, Suite 405,
Washington, District of Columbia 20036

Programs and Curricula

*Sheet Metal — Apprentice, Journeyman

Contact: Harrington, Mr. David
(202) 833-9543

FLORIDA

Brevard Community College [1470]

Cocoa, Florida 32922
(305) 632-1111

Programs and Curricula

Solar Engineering Technology

Degree: AD, Applied Science — Solar
Engineering Technology
Contact: Donnell, Nelson
(305) 532-1111

Students Taking or Completing Offering:
Solar Technician

Florida Solar Energy Center [90100]

300 State Rd. 401
Cape Canaveral, Florida 32920

Solar Related Courses

*Short Courses, Workshops, Seminars

Gulf Coast Community College [1490]

Panama City, Florida 32401
(904) 769-1551

Programs and Curricula

Solar Energy Solar Systems

Degree: AD, Science
Contact: Jones, Robert C.
(904) 769-1551

Solar Related Courses

Solar Energy

Instructor: Stotz, Robert/ Jones, Robert
(904) 769-1551
Course Number: ETM-1101
Department: Tech. Ed. — A/C Heat. and Refrig.
Program or Curriculum: Solar Energy Solar Systems
Credits: 3
Student Level: All levels
Duration: 17 Weeks, 3.0 hrs per week
Contact Hours: 51
Topics Covered Extensively: Solar System Components;
Solar Home Construction; Solar Collector Evaluation/
Design
Number of Times Taught: 1
Average Enrollment: 24

Solar Systems

Instructor: Stotz, Robert/ Jones, Robert
(904) 769-1551
Course Number: ETM 21U2
Department: Tech. Ed. — A/C Heat. and Refrig.
Program or Curriculum: Solar Energy Solar Systems
Credits: 3
Student Level: All levels
Duration: 17 Weeks, 3.0 hrs per week
Contact Hours: 51
Topics Covered Extensively: Heat and Energy Transfer;
Passive Solar Technology; Solar System Components;
Solar Economics; Solar Home Construction; Solar
Collector Evaluation/Design; Solar Systems Design;
Domestic Hot Water; Space Heating; Space Cooling
Number of Times Taught: 1
Average Enrollment: 24

Miami-Dade Community College [1506]

Miami, Florida 33176

(305) 596-1211

Programs and Curricula**Air Conditioning Engineering Technology**

Degree: AD, Science
 Contact: Succop, William
 (305) 685-4564

Students Taking or Completing Offering: Architect, Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician

Solar Related Courses**Solar Energy Fundamentals**

Instructor: Cleland, George
 (305) 685-4206
 Course Number: ETM 2706
 Department: Air Conditioning Engineering Technology
 Program or Curriculum: Air Conditioning Engineering Technology
 Credits: 3
 Student Level: High School Graduate
 Duration: 15 Weeks, 3.0 hrs per week
 Contact Hours: 45
 Topics Covered Extensively: Energy Conservation; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Systems Design; Solar Systems Installation; Domestic Hot Water; Swimming Pool Heating

Solar Energy Systems, Commercial

Instructor: Cleland, George
 (305) 685-4206
 Course Number: ETM 2758 C
 Department: Air Conditioning Engineering Technology
 Program or Curriculum: Air Conditioning Engineering Technology
 Credits: 3
 Student Level: High School Graduate
 Duration: 15 Weeks, 4.0 hrs per week
 Contact Hours: 60
 Classroom: 30
 Laboratory: 30
 Topics Covered Extensively: Energy Conservation; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Systems Design; Solar Systems Installation; Domestic Hot Water; Swimming Pool Heating

Solar Energy Systems, Residential

Instructor: Cleland, George
 (305) 685-4206
 Course Number: ETM 2756C
 Department: Air Conditioning Engineering Technology
 Program or Curriculum: Air Conditioning Engineering Technology
 Credits: 3
 Student Level: High School Graduate
 Duration: 15 Weeks, 4.0 hrs per week
 Contact Hours: 60
 Classroom: 30
 Laboratory: 30
 Topics Covered Extensively: Energy Conservation; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Systems Design; Solar Systems Installation; Domestic Hot Water; Swimming Pool Heating

Pensacola Junior College [1513]

Pensacola, Florida 32504

(904) 476-5410

Programs and Curricula**Solar Energy Technology**

Degree: AD, Energy Technology —
 Certificate of Completion
 Contact: Lowery, Stanley
 (904) 476-5410

Solar Related Courses**Residential Design and Installation**

Instructor: Lowery, Stanley
 (904) 476-5410
 Department: Industrial Technology
 Program or Curriculum: Solar Energy Technology
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 4.0 hrs per week
 Contact Hours: 64
 Classroom: 32
 Laboratory: 32
 Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar System Components; Solar Economics; Solar Home Construction; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

South Florida Technical Institute [90020]

201 W. Sunrise Blvd.

Ft. Lauderdale, Florida 33311

(305) 764-3432

Programs and Curricula**Energy Conversion Systems**

Contact: Linne, William L.
 (305) 764-3432
 Students Taking or Completing Offering: Mechanical or Electrical Contractor, Installer-Residential (Solar System), Trade Specialty

Solar Related Courses**Air Conditioning, Refrigeration & Major Appliances**

Instructor: Appleman, Louis
 (305) 764-3432
 Department: Training
 Program or Curriculum: Energy Conversion Systems
 Student Level: High School Graduate
 Duration: 5 Weeks, 30.0 hrs per week
 Contact Hours: 150
 Classroom: 100
 Laboratory: 50
 Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling
 Number of Times Taught: 3
 Average Enrollment: 10

GEORGIA

Dekalb Community College [1562]

Clarkston, Georgia 30021
(404) 292-3994

Programs and Curricula

Solar Heating

Degree: Solar Heating
Contact: Erickson, Glenn
(404) 292-1525

Students Taking or Completing Offering: Installer-Residential (Solar System), Solar Technician, Electrician, Plumber, Sheet Metal Worker

Solar Related Courses

Solar Heating

Instructor: Penland, William D.
(404) 292-1525
Department: Heating/Air Conditioning
Program or Curriculum: Solar Heating
Student Level: All levels
Duration: 14 Weeks, 24.0 hrs per week
Contact Hours: 300
Classroom: 200
Laboratory: 100

HAWAII, IDAHO

None

ILLINOIS

Illinois Eastern Community College — [1742]

Olney Central College

Olney, Illinois 62450
(618) 395-4351

Programs and Curricula

Construction Energy Program

Degree: AD, Applied Science
Contact: Marrs, Steve
(618) 395-4351

Students Taking or Completing Offering: Installer-Residential (Solar System), Solar Technician

Solar Related Courses

Energy Conservation Theory

Instructor: Culver, Ray
(618) 395-4351
Course Number: SCI 121
Department: Physics
Program or Curriculum: Construction Energy Program
Credits: 3
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Classroom: 36

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Biomass Conversion; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Systems Design

Energy Systems in Construction

Instructor: Parish, William
(618) 395-4351
Course Number: COT 172
Department: Construction Trades
Program or Curriculum: Construction Energy Program
Credits: 3
Student Level: Freshman or Sophomore

Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Classroom: 36
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Biomass Conversion; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Wind Power, Central Systems; Wind Power, Small Systems
Number of Times Taught: 1
Average Enrollment: 30

Gas and Arc Welding

Instructor: Jausel, Russ
(618) 395-4351
Course Number: AUM 282
Department: Welding
Program or Curriculum: Construction Energy Program
Credits: 5
Student Level: All levels
Duration: 12 Weeks, 8.0 hrs per week
Contact Hours: 96
Classroom: 24
Laboratory: 72
Number of Times Taught: 3
Average Enrollment: 12

Solar Store, Inc. [90030]

Box 841, Dept. bs
Peoria, Illinois 61652
(309) 673-6402

Programs and Curricula

*Solar Energy Education for Installers

Contact: Shanks, Diane

INDIANA

None

IOWA

Des Moines Area Community College [8735]

Ankeny, Iowa 50021
(515) 964-6200

Programs and Curricula

Solar Energy I and II

Degree: Adult Ed.
Contact: Rowe, Gordon N.
(515) 964-6266

Solar Related Courses

Man and Energy

Instructor: Trumpy, Frank
(515) 964-6292
Course Number: PHYS 110
Department: Math/Science
Credits: 3
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Classroom: 36
Topics Covered Extensively: Alternate Energy Sources
Number of Times Taught: 9
Average Enrollment: 19

Solar Energy I — General Overview

Instructor: Sidles, Paul
(515) 206-6844
Course Number: BLDG: 519
Department: Adult Ed.

Program or Curriculum: Solar Energy I and II
Student Level: All levels
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 27
Topics Covered Extensively: Energy Conservation; Intro. to Solar Energy; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water
Number of Times Taught: 7
Average Enrollment: 15

Solar Energy II — Air Systems

Instructor: Hummell, Myron
(515) 239-6900
Course Number: BLDG. 522
Department: Adult Ed.
Program or Curriculum: Solar Energy I and II
Student Level: All levels
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 27
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage; Heat and Energy Transfer; Sheet Metal Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Space Heating
Number of Times Taught: 2
Average Enrollment: 10

Muscatine Community College [1882]

Muscatine, Iowa 52761
(319) 263-8250

Programs and Curricula

Solar Carpentry

Degree: BS, Industrial Education
Contact: Melander, Harry
(319) 263-8250

Students Taking or Completing Offering:
Installer-Residential (Solar System)

Use of Solar Energy — Homeowners, Builders

Degree: Certificate of Completion
Contact: Ohlendorf, Vernon
(319) 263-8250

Students Taking or Completing Offering:
Do-it-yourself Homeowner

Solar Related Courses

Solar Carpentry

Instructor: Melander, Harry
(319) 263-8250
Department: Trades
Program or Curriculum: Solar Carpentry
Credits: 61
Student Level: High School Graduate
Duration: 46 Weeks, 28.0 hrs per week
Topics Covered Extensively: Energy Conservation; Energy Conversion; Passive Solar Technology; Domestic Hot Water
Number of Times Taught: 1
Average Enrollment: 10

Use of Solar Energy — Homeowners, Builders

Instructor: Ohlendorf, Vernon
(319) 263-8250
Department: Community Services-Cont. Ed.
Program or Curriculum: Use of Solar Energy — Homeowners, Builders
Student Level: All levels
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 20
Laboratory: 10
Number of Times Taught: 2
Average Enrollment: 15

Scott Community College [4074]

Bettendorf, Iowa 52722
(319) 359-7531

Programs and Curricula

***Solar Energetics Technology**

Degree: AD, Solar Energetics Technology
(319) 359-7531

Students Taking or Completing Offering: Architect, Researcher, Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician

Solar Related Courses

***Courses: Installation, Repair — Heating, Refrigeration and Air Conditioning**

Program or Curriculum: *Solar Energetics Technology
Topics Covered Extensively: Energy Storage; Photovoltaics; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Process Heat, Industrial; Space Heating; Space Cooling

Western Iowa Tech [7316]

Sioux City, Iowa 51102
(712) 276-0380

Programs and Curricula

Solar Systems Technology

Degree: AD, Applied Science in Solar Systems Technology
Contact: Chadwick, Richard
(712) 276-0380

Students Taking or Completing Offering: Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician, Other

Solar Related Courses

Blueprint Reading

Instructor: Forsling, M. G.
(712) 276-0380
Course Number: 274-3005
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 60
Classroom: 36
Laboratory: 24
Topics Covered Extensively: Passive Solar Technology; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Elec'l Generation, Small Scale; Space Heating
Average Enrollment: 11

Building Design for Solar Systems

Instructor: Forsling, M. G.
(712) 276-0380
Course Number: 274-3010
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 6.0 hrs per week
Contact Hours: 72
Classroom: 24
Laboratory: 48
Topics Covered Extensively: Energy Conservation; Energy Storage; Passive Solar Technology; Solar Home Construction
Average Enrollment: 11

Integrated Solar Science II

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3006
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 5
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 72
Classroom: 48
Laboratory: 24
Topics Covered Extensively: Energy Conversion; Elec'l Generation, Small Scale; Space Heating; Space Cooling
Average Enrollment: 11

Introduction to Solar Systems

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3000
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Classroom: 36
Average Enrollment: 11

Solar Feasibility Cost Analysis

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3012
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 5
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 60
Classroom: 60
Topics Covered Extensively: Solar Economics
Average Enrollment: 11

Solar Systems Applications I

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3002
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 9
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 13.0 hrs per week
Contact Hours: 156
Classroom: 60
Laboratory: 96
Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Plumbing Techniques; Solar Collector Evaluation/Design
Average Enrollment: 11

Solar Systems Applications II

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3007
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 8
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 11.0 hrs per week
Contact Hours: 132
Classroom: 60
Laboratory: 72
Topics Covered Extensively: Energy Conservation; Energy Conversion; Energy Storage; Plumbing Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Testing and Evaluation; Space Heating
Average Enrollment: 11

Solar Systems Maintenance

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3013
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 6.0 hrs per week
Contact Hours: 72
Classroom: 24
Laboratory: 48
Topics Covered Extensively: Energy Storage; Solar System Components; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating
Average Enrollment: 11

Systems Design Engineering

Instructor: Forsling, M. G.
(712) 276-0380

Course Number: 274-3011
Department: Trades & Industry
Program or Curriculum: Solar Systems Technology
Credits: 6
Student Level: Freshman or Sophomore
Duration: 12 Weeks, 8.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48
Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation
Average Enrollment: 11

KANSAS

Barton County Community Junior College
Great Bend, Kansas 67530 [4608]
(316) 792-2701

Programs and Curricula**Solar Energy Technology**

Degree: AD, Applied Science
Contact: Greer, Neil
(316) 792-2701

Students Taking or Completing Offering: Trade Specialty

Solar Related Courses**Solar Energy and Applied Science I**

Instructor: Greer, Neil
(316) 792-2701

Course Number: 6900
Department: Applied Sciences
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 17 Weeks, 6.0 hrs per week
Contact Hours: 102
Classroom: 51
Laboratory: 51
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating
Number of Times Taught: 1
Average Enrollment: 7

Kansas Technical Institute [4611]

Salina, Kansas 67401
(913) 825-0275

Programs and Curricula

Mechanical Engineering Technology — Solar Option

Degree: AD, Science
Contact: Ashburn, M. H.
(913) 825-0275
Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Solar System Design Technology I

Instructor: Ashburn, M.
(913) 825-0275
Course Number: MT2832
Department: Mechanical Technology
Program or Curriculum: Mech. Engineering Tech. —
Solar Option

Credits: 2
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 4.0 hrs per week
Contact Hours: 64
Classroom: 16
Laboratory: 48

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating

Solar System Design Technology II

Instructor: Ashburn, M.
(913) 825-0275
Course Number: MT2844
Department: Mechanical Technology
Program or Curriculum: Mech. Engineering Tech. —
Solar Option

Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 8.0 hrs per week
Contact Hours: 128
Classroom: 42
Laboratory: 86

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Water; Space Heating

KENTUCKY, LOUISIANA

None

MAINE

Cornerstones, Wing School of Shelter Technology [90090]

54 Cumberland St.
Brunswick, Maine 04011

Solar Related Courses

Advanced New House

Course Number: B
Duration: 3 Weeks, 35.0 hrs per week
Contact Hours: 105
Topics Covered Extensively: Passive Solar Technology;
Solar Home Construction

Passive Solar Building Design

(207) 729-0540
Course Number: E
Duration: 1 Week, 35.0 hrs per week
Contact Hours: 35
Topics Covered Extensively: Passive Solar Technology;
Solar Home Construction

Passive Solar House Design & Construction

Instructor: Wing, Charles
(207) 729-0540

Course Number: A
Credits: 3
Student Level: All levels
Duration: 8 Weeks, 6.0 hrs per week
Contact Hours: 48
Classroom: 45
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar Home Construction
Number of Times Taught: 30
Average Enrollment: 30

Retrofitting Existing Structures

(207) 729-0540
Course Number: C
Duration: 3 Weeks, 35.0 hrs per week
Contact Hours: 105
Topics Covered Extensively: Alternate Energy Sources;
Passive Solar Technology; Solar Home Construction

Solar Greenhouses

(207) 729-0540
Course Number: D
Duration: 1 Week, 35.0 hrs per week
Contact Hours: 35
Topics Covered Extensively: Passive Solar Technology;
Solar Home Construction

The Design Workshop

Instructor: Colburn, Gary
(207) 729-0540
Topics Covered Extensively: Passive Solar Technology;
Solar Home Construction

Shelter Institute [90240]

58 Center Street
Bath, Maine 04530

Solar Related Courses

*Passive Solar Design

Instructor: Hennin, Patsy
(207) 443-7938
Duration: 15 Weeks
Topics Covered Extensively: Passive Solar Technology;
Solar Home Construction

MARYLAND

RETS Technical Center [90050]

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

Programs and Curricula

Refrigeration Climate Control and Clean Air

Degree: Refrigeration — Climate Control —
Clean Air
Contact: Tickler, Earl M.
(301) 727-6863

Students Taking or Completing Offering: Installer-
Residential (Solar System), Solar Technician, Trade
Specialty

Solar Related Courses

Refrigeration — Climate Control — Clean Air

Instructor: Tickler, Earl M.
(301) 727-6863
Program or Curriculum: Refrig., Climate Control and
Clean Air
Student Level: High School Graduate
Duration: 6 Weeks, 30.0 hrs per week
Contact Hours: 180
Classroom: 90
Laboratory: 60
Topics Covered Extensively: Appropriate Technology;
Energy Conservation; Energy Storage; Heat and Energy

Transfer; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar Energy Policy Development; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Installation; Solar Systems Maintenance; Solar System Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

MASSACHUSETTS

The Cambridge School — Weston Center For Open Education [90200]
Weston, Massachusetts

Solar Related Courses

*Adapting Heating Systems for Solar Use

(617) 965-5428

Topics Covered Extensively: Space Heating

*Advanced Studies in Solar Heating

(617) 965-5428

Topics Covered Extensively: Space Heating

*Basic Solar Heating

(617) 965-5428

Topics Covered Extensively: Space Heating

*Biomass for Energy

(617) 965-5428

Topics Covered Extensively: Biomass Conversion

*Designing Your Own Solar System

(617) 965-5428

Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design; Solar System Design; Space Heating

*Photovoltaics

(617) 965-5428

Topics Covered Extensively: Photovoltaics

*Power from the Sea

(617) 965-5428

*Small Wind Mills

(617) 965-5428

Topics Covered Extensively: Wind Power, Small Systems

*Solar Heating Added to Your House

(617) 965-5420

*Solar Heating System Design

(617) 965-5428

Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating

*Wind Machines

(617) 965-5420

Topics Covered Extensively: Wind Power, Central Systems; Wind Power, Small Systems

Cape Cod Community College [2168]

West Barnstable, Massachusetts

(617) 362-2131

Programs and Curricula

Energy Systems Technology

Degree: AD, Science

Contact: Panitz, Ted
(617) 362-2131

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Energy Systems I-A Survey of Energy Alternatives

Instructor: Panitz, Ted
(617) 362-2131

Course Number: TE 130

Department: Industry Related Technology Program

Program or Curriculum: Energy Systems Technology
Credits: 4

Student Level: Freshman or Sophomore
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 45
Laboratory: 15
Topics Covered Extensively: Alternate Energy Sources
Number of Times Taught: 3
Average Enrollment: 15

Energy Systems II — Solar Energy I

Instructor: Panitz, Ted
(617) 362-2131

Course Number: TE 131

Department: Industry Related Technologies

Program or Curriculum: Energy Systems Technology

Credits: 4

Student Level: Freshman or Sophomore

Duration: 15 Weeks, 4.0 hrs per week

Contact Hours: 60

Classroom: 45

Laboratory: 15

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating

Number of Times Taught: 2

Average Enrollment: 35

Energy Systems III — Solar Energy II

Instructor: Panitz, Ted
(617) 362-2131

Course Number: TE 132

Department: Industry Related Technologies

Program or Curriculum: Energy Systems Technology

Credits: 4

Student Level: Freshman or Sophomore

Duration: 15 Weeks, 4.0 hrs per week

Contact Hours: 60

Classroom: 45

Laboratory: 15

Topics Covered Extensively: Heat and Energy Transfer; Passive Solar Technology; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating

Number of Times Taught: 1

Average Enrollment: 18

New England Fuel Institute [90230]

20 Summer St. Box 888

Watertown, Massachusetts 02172

Solar Related Courses

*Basic Solar Heating Technology

Topics Covered Extensively: Space Heating

*Solar Installation and Maintenance

Instructor: Tavino, R./ Taylor, R.
(617) 924-1000

Student Level: All levels

Duration: 4 Weeks, 40.0 hrs per week

Contact Hours: 160

Classroom: 80

Laboratory: 80

Topics Covered Extensively: Solar System Components; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Space Heating

Northeast Institute of Industrial Technology

41 Phillips St. [90060]

Boston, Massachusetts 02114

Programs and Curricula

Installing Solar Water Heaters

Degree: Solar Water Systems

Contact: Galvin, G. M.
(617) 523-2813

Solar Related Courses

Installing Solar Water Heating

Instructor: Smith, Robert O./ Lannon, E.
(617) 523-2813
Department: Air Conditioning, Refrig. Tech.
Program or Curriculum: Installing Solar Water Heaters
Student Level: College Graduate
Duration: 15 Weeks, 2.0 hrs per week
Contact Hours: 30
Classroom: 30
Number of Times Taught: 4
Average Enrollment: 30

Springfield Technical Community College

Springfield, Massachusetts [8078]

(413) 781-6470

Programs and Curricula

*Solar Energy Option

Degree: AD, Solar Energy
Contact: Murray, Carl
(413) 781-6470

Solar Related Courses

*Courses in Solar Technology

Department: Eng'r. Tech
Program or Curriculum: *Solar Energy Option
Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Storage; Solar System Components; Solar Economics;
Solar Collector Evaluation/Design; Solar Systems Design;
Solar Systems Installation; Solar Systems Maintenance;
Domestic Hot Water; Space Heating

MICHIGAN

Charles S. Mott Community College [2261]

Flint, Michigan 48503

(313) 762-0200

Programs and Curricula

Energy Technology

Degree: AD, Applied Science, Alternate
Energy
Contact: Laine, Douglas E.
(313) 762-0278

Students Taking or Completing Offering: Trade Specialty

Solar Related Courses:

Solar Heating and Cooling

Instructor: Laine, Douglas E.
(616) 762-0278
Course Number: PHYSICI-113
Department: Science and Mathematics
Program or Curriculum: Energy Technology
Credits: 2
Student Level: All levels
Duration: 16 Weeks, 2.0 hrs per week
Contact Hours: 32
Classroom: 32
Topics Covered Extensively: Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Intro. to Solar Energy; Solar System Components; Solar
Economics; Solar Collector Evaluation/Design; Solar
Systems Design; Solar Systems Installation; Solar
Systems Maintenance; Solar Systems Testing and
Evaluation
Number of Times Taught: 2
Average Enrollment: 20

Ferris State College [2260]

Big Rapids, Michigan 49307

(616) 796-9971

Programs and Curricula

Refrigeration, Heating and Air Conditioning Technology

Degree: AD, Applied Science in Refrig.,
Heating, and Air Conditioning
Contact: Shane, James B.
(616) 796-9971

Students Taking or Completing Offering: Installer-
Commercial (Solar System), Installer-Residential (Solar
System), Solar Technician, Trade Specialty

Solar Related Courses

Advanced Air Conditioning

Instructor: Nott, Joe
(616) 796-9971
Course Number: RHA 263
Department: Construction
Program or Curriculum: Refrig., Heating and Air Condi-
tioning Technology
Credits: 9
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 20.0 hrs per week
Contact Hours: 200
Classroom: 50
Laboratory: 150
Average Enrollment: 18

Energy Conservation in Building Design

Instructor: Kantor, Mel
(616) 796-9971
Course Number: A-D 302
Department: Construction
Program or Curriculum: Refrig., Heating and Air Condi-
tioning Technology
Credits: 3
Student Level: All levels
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 30
Topics Covered Extensively: Energy Conservation; Passive
Solar Technology; Solar Home Construction; Space
Heating

Energy Use and Conservation

Instructor: Erion, John
(616) 796-9971
Course Number: BCT 302
Department: Construction
Program or Curriculum: Refrig., Heating and Air Condi-
tioning Technology
Credits: 4
Student Level: All levels
Duration: 10 Weeks, 5.0 hrs per week
Contact Hours: 50
Classroom: 30
Laboratory: 20

Topics Covered Extensively: Alternate Energy Sources;
Energy Conservation; Energy Conversion; Heat and
Energy Transfer; Intro. to Solar Energy; Materials
Research; Passive Solar Technology; Solar System
Components; Solar Economics; Solar Systems Installa-
tion; Domestic Hot Water; Space Heating

Heating

Instructor: Stovone, Russ
(616) 796-9971
Course Number: RHA 262
Department: Construction
Program or Curriculum: Refrig., Heating, and Air Condi-
tioning Technology
Credits: 9
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 20.0 hrs per week
Contact Hours: 200
Classroom: 50
Laboratory: 150
Topics Covered Extensively: Heat and Energy Transfer;
Intro. to Solar Energy; Solar System Components; Solar
Economics; Solar Systems Maintenance; Space Heating
Average Enrollment: 18

Summer Air Conditioning

Instructor: Lawrence, Fred/ Shaw, Dick
(616) 796-9971

Course Number: RHA 261
 Department: Construction
 Program or Curriculum: Refrig., Heating and Air Conditioning Technology
 Credits: 9
 Student Level: Freshman or Sophomore
 Duration: 10 Weeks, 20.0 hrs per week
 Contact Hours: 200
 Classroom: 50
 Laboratory: 150
 Topics Covered Extensively: Plumbing Techniques; Solar System Components; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating
 Average Enrollment: 18

Grand Rapids Junior College [2267]
 Grand Rapids, Michigan 49502
 (616) 456-4895

Programs and Curricula

Architectural Drafting

Degree: AD, Architectural Drafting
 Contact: Boyer, Don
 Students Taking or Completing Offering: Architect

Heating, Ventilation, & Air Conditioning

Degree: AD, Heating, Ventilation, Air Cond.
 Contact: Boyer, Don

Solar Related Courses

Solar Systems — Collector Design and Construction

Instructor: Larson, L.
 (616) 456-4860
 Course Number: TE 245
 Department: Technology
 Program or Curriculum: Arch. Draft. and Heat., Vent., A/C
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 4.0 hrs per week
 Contact Hours: 64
 Classroom: 16
 Laboratory: 32
 Topics Covered Extensively: Materials Research; Plumbing Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating

Solar Dwelling Design Concepts

Instructor: Larson, L.
 (616) 456-4860
 Course Number: TE 243
 Department: Technology
 Program or Curriculum: Arch. Draft. and Heat., Vent., A/C
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 4.0 hrs per week
 Contact Hours: 64
 Classroom: 32
 Laboratory: 32
 Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage; Passive Solar Technology; Solar Home Construction; Domestic Hot Water; Space Heating; Space Cooling

Solar Theory & Design

Instructor: Larson, L.
 (616) 456-4860
 Course Number: TE 142
 Department: Technology
 Program or Curriculum: Arch. Draft. and Heat., Vent., A/C
 Credits: 2
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 2.0 hrs per week
 Contact Hours: 32
 Classroom: 28
 Laboratory: 4
 Topics Covered Extensively: Energy Conversion; Intro. to Solar Energy; Domestic Hot Water; Space Heating
 Number of Times Taught: 2
 Average Enrollment: 15

Lansing Community College [2278]
 Lansing, Michigan 48901
 (517) 373-7400

Solar Related Courses

***Alternate Sources of Energy**

Course Number: ATG150
 Department: Eng'r Tech.
 Topics Covered Extensively: Alternate Energy Sources

***Building a Solar Furnace**

Course Number: ATG151
 Department: Eng'r Tech.
 Topics Covered Extensively: Space Heating

***Building a Solar Water Heater**

Course Number: ATG152
 Department: Eng'r Tech.
 Topics Covered Extensively: Domestic Hot Water

***Passive Solar Design**

Course Number: AT211
 Department: Eng'r Tech.
 Topics Covered Extensively: Passive Solar Technology

***Passive Solar II**

Course Number: AT215
 Department: Eng'r Tech.
 Topics Covered Extensively: Passive Solar Technology

***Principles of Solar Energy Collection**

Course Number: AT201
 Department: Eng'r Tech.
 Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design

***Residential Solar Heating System Design**

Course Number: AT203
 Department: Eng'r Tech.
 Topics Covered Extensively: Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating

***Solar Housing**

Course Number: AT200
 Department: Eng'r Tech.

***Solar Site Seminar**

Course Number: AT208
 Department: Eng'r Tech.

MINNESOTA, MISSISSIPPI, MISSOURI, MONTANA
 None

NEBRASKA

Metropolitan Technical Community College
 Omaha, Nebraska 68137 [12586]
 (402) 457-5100

Programs and Curricula

Solar Technical Training Program

Degree: Solar Systems
 Contact: Kafka, James J.
 (402) 457-5100
 Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Survey of Solar Energy

Instructor: Reinmuth, Larry
 (402) 457-5100
 Department: Continuing Education
 Program or Curriculum: Solar Technician Training Program
 Student Level: All levels
 Duration: 8 Weeks, 2.5 hrs per week
 Contact Hours: 20
 Classroom: 12
 Laboratory: 8

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling; Wind Power, Small Systems

Number of Times Taught: 3
Average Enrollment: 8

NEVADA

Clark County Community College [10362]

Las Vegas, Nevada 89030
(702) 643-6060

Programs and Curricula

Solar Energy Technology

Degree: AD, OT, Solar Energy Technology
Applied Science
Contact: Comarow, David
(702) 843-6060

Students Taking or Completing Offering: Solar Technician, Sheet Metal Worker, Electrician, Plumber

Solar Related Courses

Advanced Solar Energy Technology

Instructor: Comarow, David
(702) 643-6060
Course Number: SOL 201
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 6.0 hrs per week
Contact Hours: 90
Classroom: 45
Laboratory: 45

Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Materials Research; Plumbing Techniques; Solar System Components; Solar System Components; Solar Economics; Solar Home Construction; Solar Law/Legislation; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

Introduction to Solar Technology

Instructor: Comarow, David
(702) 643-6060
Course Number: SOL 119
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 9.0 hrs per week
Contact Hours: 135
Classroom: 90
Laboratory: 45

Topics Covered Extensively: Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

Passive Solar Heating and Cooling Technology

Instructor: Comarow, David
(702) 643-6060
Course Number: SOL 130
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore

Duration: 15 Weeks, 3.0 hrs per week
Contact Hours: 45
Classroom: 45

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Passive Solar Technology; Solar Economics; Solar Home Construction; Space Heating; Space Cooling

Practicum in Solar Technology

Instructor: Comarow, David
(702) 643-6060
Course Number: SOL 1210
Department: Science
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 9.0 hrs per week
Contact Hours: 135

Topics Covered Extensively: Domestic Hot Water; Swimming Pool Heating; Process Heat, Industrial, Space Heating; Space Cooling

Solar Energy Technology — Home Owner

Instructor: Comarow, David
(702) 643-6060
Course Number: ENV 1183
Department: Science
Program or Curriculum: Solar Energy Technology
Student Level: All levels
Duration: 1 Week, 15.0 hrs per week
Contact Hours: 15
Classroom: 15

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

Number of Times Taught: 7
Average Enrollment: 100

NEW HAMPSHIRE

New Hampshire Vocational Technical College — Manchester [2582]

Manchester, New Hampshire
(603) 668-6706

Programs and Curricula

Solar Energy Certificate Program

Degree: Solar Energy
Contact: Magnon, David
(603) 668-6706

Students Taking or Completing Offering: Educator, Do-it-yourself Homeowner

Solar Related Courses

Energy Conservation — Principles

Instructor: Magnon, David
(603) 668-6706
Course Number: M941EV
Department: Evening
Program or Curriculum: Solar Energy Certificate Program
Credits: 3
Student Level: All levels
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36

Topics Covered Extensively: Energy Conservation

Number of Times Taught: 1
Average Enrollment: 20

Energy Survey & Alternative Systems

Instructor: Magnon, David
(603) 668-6706
Course Number: M940EV

Department: Evening
Program or Curriculum: Solar Energy Certificate Program
Credits: 3
Student Level: All levels
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Intro. to
Solar Energy; Passive Solar Technology
Number of Times Taught: 1
Average Enrollment: 20

Principles of Solar Design

Instructor: Magnon, David
(603) 668-6706
Course Number: M943EV
Department: Evening Extension
Program or Curriculum: Solar Energy Certificate Program
Credits: 3
Student Level: All levels
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36
Topics Covered Extensively: Solar Home Construction;
Solar Collector Evaluation/Design; Solar Systems Design

Solar Construction & Installation Technology

Instructor: Magnon, David
(603) 668-6706
Course Number: M944EV
Department: Evening Extension
Program or Curriculum: Solar Energy Certificate Program
Credits: 4
Student Level: All levels
Duration: 12 Weeks, 4.0 hrs per week
Contact Hours: 48
Topics Covered Extensively: Solar Collector Evaluation/
Design; Solar Systems Design; Solar Systems Installation;
Solar Systems Maintenance

Solar Energy — a Prime Energy Resource

Instructor: Magnon, David
(603) 668-6706
Course Number: M942EV
Department: Evening Extension
Program or Curriculum: Solar Energy Certificate Program
Credits: 4
Student Level: All levels
Duration: 12 Weeks, 4.0 hrs per week
Contact Hours: 48
Topics Covered Extensively: Alternate Energy Sources;
Heat and Energy Transfer; Intro. to Solar Energy; Passive
Solar Technology; Solar System Components; Solar
Collector Evaluation/Design; Space Heating

Solar Heating Systems

Instructor: Byrne, E.
Course Number: 404
Department: HVAC
Credits: 4
Student Level: All levels
Duration: 12 Weeks, 4.0 hrs per week
Contact Hours: 48
Topics Covered Extensively: Plumbing Techniques; Solar
Systems Installation; Solar Systems Maintenance; Solar
Systems Testing and Evaluation; Domestic Hot Water;
Space Heating
Number of Times Taught: 4
Average Enrollment: 25

Solar Seminar — Integrated Projects

Instructor: Magnon, David
(603) 668-6706
Course Number: M945EV
Department: Evening Extension
Program or Curriculum: Solar Energy Certificate Program
Credits: 3
Student Level: All levels
Duration: 12 Weeks, 3.0 hrs per week
Contact Hours: 36

NEW JERSEY

Essex County Technical Careers Center [90390]

91 West Market St.
Newark, New Jersey

Programs and Curricula

*Day Program — Solar Heating Systems

Degree: Certificate

*Night Program — Solar Heating Systems

Degree: Certificate

Solar Related Courses

*Solar Heating Systems — (Day Course)

Department: Adult Education
Program or Curriculum: *Day Program — So. Heat. Systems
Contact Hours: 300
Topics Covered Extensively: Solar System Components;
Solar Collector Evaluation/Design; Solar Systems Design;
Solar Systems Installation; Solar Systems Maintenance;
Domestic Hot Water; Space Heating; Space Cooling

*Solar Heating Systems — (Night Course)

Department: Adult Education
Program or Curriculum: *Night Program — Sol. Heat.
Systems

Contact Hours: 120

Topics Covered Extensively: Solar System Components;
Solar Collector Evaluation/Design; Solar Systems Design;
Solar Systems Installation; Solar Systems Maintenance;
Domestic Hot Water; Space Heating; Space Cooling

Mercer County Area Vocational Technical Schools [90560]

1085 Old Trenton Rd.
Trenton, New Jersey 08690

Solar Related Courses

*Installing Solar Heating & Cooling

Department: Plumbing, Heating, and Refrig.
Topics Covered Extensively: Plumbing Techniques; Solar
System Components; Solar Systems Installation; Domestic
Hot Water; Space Heating; Space Cooling

Ocean County Vocational Technical Schools [90380]

Route 571
Jackson, New Jersey 08527

Programs and Curricula

*Solar Energy Theory-Heating, Ventilation, Air Conditioning Technology

Degree: Evening School Certificate

Solar Related Courses

*Solar Energy Theory-Heating, Ventilation and Air Conditioning

Department: Evening School
Program or Curriculum: *Sol. Ener. Theory - Heat., Vent.,
A/C Tech

Student Level: All levels

Duration: 15 Weeks

Topics Covered Extensively: Solar System Components;
Solar Collector Evaluation/Design; Solar Systems Design;
Domestic Hot Water; Space Heating

*Solar Energy Workshop

Department: Evening School

Student Level: All levels

Topics Covered Extensively: Solar System Components;
Solar Economics; Solar Collector Evaluation/Design;
Solar Systems Design; Solar Systems Installation; Domes-
tic Hot Water

Southern New Jersey OIC [90070]

Camden, New Jersey

Programs and Curricula**Solar Energy Unit Installer Program**

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

Students Taking or Completing Offering:
 Installer-Residential (Solar System)

Solar Related Courses**Solar Energy Installer**

Instructor: Keene, Joseph P.
 (609) 966-2545

Program or Curriculum: Solar Energy Unit Installer Program
 Student Level: High School Graduate
 Duration: 26 Weeks, 5.0 hrs per week
 Contact Hours: 130

Topics Covered Extensively: Appropriate Technology;
 Biomass Conversion; Energy Conservation; Energy Con-
 version; Energy Storage; Heat and Energy Transfer; Intro.
 to Solar Energy; Passive Solar Technology; Plumbing Tech-
 niques; Solar System Components; Solar Systems
 Installation; Domestic Hot Water; Swimming Pool Heating;
 Space Heating

NEW MEXICO

None

NEW YORK**Adirondack Community College [2860]**

Glens Falls, New York 12801
 (518) 793-4491

Programs and Curricula**Seminar in Solar Energy**

Degree: Heating Certificate
 Contact: Harrington, Charles
 (518) 747-0274

Students Taking or Completing Offering:
 Solar Technician

Solar Related Courses**Seminar in Solar Energy**

Instructor: Harrington, Charles
 (518) 747-0274

Course Number: TECH 191
 Department: Occ. Ed.
 Program or Curriculum: Seminar in Solar Energy
 Credits: 3
 Student Level: All levels
 Duration: 17 Weeks, 6.0 hrs per week
 Contact Hours: 102
 Classroom: 51
 Laboratory: 51

Topics Covered Extensively: Energy Storage; Heat and
 Energy Transfer; Intro. to Solar Energy; Passive Solar
 Technology; Solar System Components; Solar Economics;
 Solar Home Construction; Solar Collector Evaluation/
 Design; Solar Systems Design; Solar Systems Installation;
 Solar Systems Maintenance; Solar Systems Testing and
 Evaluation; Domestic Hot Water; Space Heating;
 Space Cooling

Number of Times Taught: 5
 Average Enrollment: 25

Cayuga County Community College [2861]

Auburn, New York 13021
 (315) 253-7345

Programs and Curricula**Solar Energy Technology**

Degree: Solar Energy Technology
 Contact: Komanecky, William
 (315) 253-7345

Students Taking or Completing Offering:
 Do-it-yourself Homeowner, Electrician, Plumber

Solar Related Courses**Solar Heating Energy**

Instructor: Simkin, Robert
 (315) 364-8065
 Department: Science
 Program or Curriculum: Solar Energy Technology
 Credits: 1
 Student Level: All levels
 Duration: 5 Weeks, 3.0 hrs per week
 Contact Hours: 15
 Classroom: 15
 Topics Covered Extensively: Energy Storage; Heat and
 Energy Transfer; Intro. to Solar Energy; Passive Solar Tech-
 nology; Solar System Components; Space Heating
 Number of Times Taught: 2
 Average Enrollment: 23

CUNY New York City Community College [2696]

Brooklyn, New York 11201
 (212) 643-4033

Programs and Curricula**Environmental Control Technology**

Degree: AD, Applied Science
 Contact: Lomask, Samuel
 (212) 962-0407

Solar Related Courses**Environmental Design I**

Instructor: Farkas, Stanley
 (212) 239-1662
 Course Number: EC 110
 Department: Environmental Control Technology
 Program or Curriculum: Environmental Control Technology
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 3.0 hrs per week
 Contact Hours: 45
 Classroom: 45
 Topics Covered Extensively: Energy Conservation; Heat
 and Energy Transfer
 Number of Times Taught: 70
 Average Enrollment: 25

Environmental Design Laboratory

Instructor: Farkas, Stanley
 (212) 239-1662
 Course Number: EC 111
 Department: Environmental Control Technology
 Program or Curriculum: Environmental Control Technology
 Credits: 1
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 3.0 hrs per week
 Contact Hours: 45
 Classroom: 3
 Topics Covered Extensively: Plumbing Techniques
 Average Enrollment: 20

Environmental System Design

Instructor: Finger, A.
 (212) 239-1658
 Course Number: EC 430
 Department: Environmental Control Technology
 Program or Curriculum: Environmental Control Technology
 Credits: 4
 Student Level: Freshman or Sophomore
 Duration: 15 Weeks, 6.0 hrs per week
 Contact Hours: 90
 Classroom: 30
 Laboratory: 60
 Number of Times Taught: 16
 Average Enrollment: 18

Hydronic Systems Design

Instructor: Pita, Edward
 (212) 239-1662

Course Number: EC 220
Department: Environmental Control Technology
Program or Curriculum: Environmental Control Technology
Credits: 3
Student Level: High School Graduate
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 40
Topics Covered Extensively: Heat and Energy Transfer
Number of Times Taught: 24
Average Enrollment: 25

Refrigeration II

Instructor: Lomask, Samuel
(212) 239-1696
Course Number: EC 410
Department: Environmental Control Technology
Program or Curriculum: Environmental Control Technology
Credits: 2
Student Level: Junior or Senior
Duration: 15 Weeks, 2.0 hrs per week
Contact Hours: 30
Topics Covered Extensively: Energy Conservation; Energy Storage; Heat and Energy Transfer
Number of Times Taught: 16
Average Enrollment: 25

Mohawk Valley Community College [2871]

Utica, New York 13501
(315) 792-5500

Programs and Curricula

Solar Energy Technology

Degree: Solar Energy Technology
Contact: Dunning, Francis
(315) 792-5514

Solar Related Courses

Solar Energy I - Energy & Energy Construction

Instructor: Dunning, Francis
(315) 792-5514
Course Number: CC 530
Department: Physics and Engineering Science
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: All levels
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 30
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Economics; Solar Systems Installation; Domestic Hot Water; Space Heating
Number of Times Taught: 5
Average Enrollment: 30

Solar Energy II (Installation)

Instructor: Dunning, Francis
(315) 792-5514
Course Number: D2986
Department: Physics
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 5.0 hrs per week
Contact Hours: 50
Classroom: 30
Laboratory: 20
Topics Covered Extensively: Appropriate Technology; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating
Number of Times Taught: 1
Average Enrollment: 30

Solar III (Solar Energy System Design and Analysis)

Instructor: Dunning, Francis
(315) 792-5514
Department: Physics
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 5.0 hours per week
Contact Hours: 50
Classroom: 30
Laboratory: 20
Topics Covered Extensively: Appropriate Technology; Energy Conversion; Energy Storage; Heat and Energy Transfer; Materials Research; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

Solar IV (Alternate Energy Sources)

Instructor: Dunning, Francis
(315) 792-5514
Department: Physics
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 5.0 hrs per week
Contact Hours: 50
Classroom: 30
Laboratory: 20
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Conversion; Intro. to Solar Energy Passive Solar Technology; Photovoltaics; Solar Economics; Solar Law/Legislation; Process Heat, Agricultural; Process Heat, Industrial; Wind Power; Central Systems; Wind Power, Small Systems

Solar System Fabrication I

Instructor: Dunning, Francis
(315) 792-5514
Department: Physics
Program or Curriculum: Solar Energy Technology
Credits: 2
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 10
Laboratory: 20
Topics Covered Extensively: Appropriate Technology; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

Solar System Fabrication II

Instructor: Dunning, Francis
(315) 792-5514
Department: Physics
Program or Curriculum: Solar Energy Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 7.0 hrs per week
Contact Hours: 70
Classroom: 10
Laboratory: 60
Topics Covered Extensively: Appropriate Technology; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

SUNY Agricultural and Technical College - Delhi
Delhi, New York 13753 [2857]
(607) 746-4111

Programs and Curricula

Construction Technology/Civil Technology

Degree: Ad, Applied Science
Contact: Duncan, George
(607) 746-4225

Students Taking or Completing Offering:
Mechanical or Electrical Contractor, Contractor, Other

Solar Related Courses

General Chemistry

Instructor: Onasch, Frederick
(607) 746-4377
Course Number: 9512
Department: Physical Sciences
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 5.0 hrs per week
Contact Hours: 75
Classroom: 30
Laboratory: 45

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Biomass Conversion; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Materials Research; Photovoltaics

General Chemistry 9513

Instructor: Onasch, Frederick
(607) 746-4377
Course Number: 9513
Department: Physical Sciences
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 5.0 hrs per week
Contact Hours: 75
Classroom: 30
Laboratory: 45

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Biomass Conversion; Energy
Conversion; Energy Storage; Heat and Energy Transfer
Material Research; Photovoltaics

General Physics

Instructor: Vetter, Willard
(607) 746-4374
Course Number: 9521
Department: Physical Sciences
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Intro. to Solar Energy

Average Enrollment: 100

General Physics 9522

Instructor: Vetter, Willard
(607) 746-4374
Course Number: 9522
Department: Physical Sciences
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 30
Laboratory: 30

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;

Intro. to Solar Energy
Average Enrollment: 100

Mechanical Equipment for Buildings

Instructor: Hampel, John
(607) 746-4386
Course Number: 3741
Department: Construction Technology
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 45
Laboratory: 30

Topics Covered Extensively: Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Plumbing Techniques

Number of Times Taught: 20
Average Enrollment: 65

Thermodynamics and Heating

Instructor: Hampel, John
(607) 746-4386
Course Number: 3711
Department: Construction Technology
Program or Curriculum: Construction Tech./Civil Tech.
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 45
Laboratory: 30

Topics Covered Extensively: Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Plumbing Techniques

Number of Times Taught: 20
Average Enrollment: 65

Water Resources

Instructor: Singer, Darrell
(607) 746-4391
Course Number: 3554
Department: Civil Technology
Program or Curriculum: Construction Tech./Civil Tech
Credits: 4
Student Level: Freshman or Sophomore
Duration: 15 Weeks, 6.0 hrs per week
Contact Hours: 90
Classroom: 30
Laboratory: 60

Topics Covered Extensively: Alternate Energy Sources;
Biomass Conversion; Energy Conservation; Energy Con-
version; Energy Storage

Number of Times Taught: 20
Average Enrollment: 30

NORTH CAROLINA

Cape Fear Technical Institute [5320]

Wilmington, North Carolina 28401
(919) 343-0481

Programs and Curricula

General Occupational Technologies

Degree: AD, General Occupational
Technologies
Contact: Stiles, W. O./Averette, R.
(919) 343-0481

Solar Related Courses

Introduction to Energy Resources

Instructor: Bordeaux, Ralph
(919) 343-0481
Course Number: T-EGY101
Department: Engineering Occupational
Program or Curriculum: General Occupational
Credits: 3
Student Level: All levels

Duration: 11 Weeks, 3.0 hrs per week
Contact Hours: 33
Classroom: 33
Topics Covered Extensively: Alternate Energy Sources;
Energy Storage; Intro. To Solar Energy
Number of Times Taught: 2
Average Enrollment: 25

Introduction to Solar Energy Systems (Electricity)

Instructor: Bordeaux, Ralph
(919) 343-0481
Course Number: T-3GY103
Department: Engineering
Program or Curriculum: General Occupational
Technologies

Credits: 5
Student Level: All levels
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 44
Laboratory: 22

Topics Covered Extensively: Appropriate Technology;
Photovoltaics; Solar Energy Policy Development; Elec-
Generation, Small Scale; Wind Power, Small Systems

Introduction to Solar Energy Systems (Thermal)

Instructor: Stiles, Warren O.
(919) 256-3146
Course Number: T-EGY102
Department: G.O.T./Evening
Program or Curriculum: General Occupational
Technologies

Credits: 5
Student Level: All levels
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 44
Laboratory: 22

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Storage; Heat and Energy Transfer; Intro. to Solar
Energy; Solar Economics; Solar Collector Evaluation/
Design; Domestic Hot Water

Southwestern Technical Institute [8466]

Sylva, North Carolina 28779
(704) 586-4091

Programs and Curricula

Solar Energy Systems-Residential and Commercial Construction

Degree: Certificate of Completion
Contact: Liming, Glenn
(704) 586-4091

Students Taking or Completing Offering:
Installer-Residential (Solar System), Installer-Commercial
(Solar System), Solar Technician

Solar Related Courses

Introduction to Solar Concepts

Instructor: Liming, Glenn
(704) 586-4091
Course Number: CAR 1120
Department: Industrial/Vocational
Program or Curriculum: Solar Energy Systems-Res. and
Comm. Construction

Credits: 4
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 33
Laboratory: 33
Number of Times Taught: 1
Average Enrollment: 8

Solar Collector

Instructor: Liming, Glenn
(704) 586-4091

Course Number: CAR 1121
Department: Industrial/Vocational
Program or Curriculum: Solar Energy Systems-Res. and
Comm. Construction
Credits: 6
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 13.0 hrs per week
Contact Hours: 143
Classroom: 33
Laboratory: 110

Topics Covered Extensively: Solar Collector Evaluation/
Design

Number of Times Taught: 1
Average Enrollment: 8

Solar Energy Heating Systems

Instructor: Liming, Glenn
(704) 586-4091

Course Number: CAR 1122
Department: Industrial/Vocational
Program or Curriculum: Solar Energy Systems-Res. and
Comm. Construction

Credits: 4
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 33
Laboratory: 33

Topics Covered Extensively: Intro. to Solar Energy;
Swimming Pool Heating

Number of Times Taught: 1
Average Enrollment: 8

NORTH DAKOTA

Bismarck Junior College [2988]

Bismarck, North Dakota 58501
(701) 223-4500

Programs and Curricula

Solar Heating

Degree: Certificate of Completion
Contact: McKinney, David
(701) 255-0566

Students Taking or Completing Offering:
Plumber, Sheet Metal Worker

Solar Related Courses

Solar Energy

Instructor: McKinney, David
(701) 255-0566
Department: Heating, Refrigeration, and Air
Conditioning

Program or Curriculum: Solar Heating
Credits: 8
Student Level: Freshman or Sophomore
Duration: 8 Weeks, 32.0 hrs per week
Contact Hours: 256
Classroom: 63
Laboratory: 193

Topics Covered Extensively; Plumbing Techniques; Sheet
Metal Techniques; Solar Home Construction; Solar Systems
Design; Solar Systems Installation; Solar Systems Mainte-
nance; Solar Systems Testing and Evaluation; Domestic Hot
Water; Space Heating; Space Cooling

North Dakota State School of Science [2996]

Wahpeton, North Dakota 58075
(701) 671-1130

Programs and Curricula

Environmental Systems Design

Degree: Certificate, Diploma
Contact: Whitcomb, Larry
(701) 671-2529

Students Taking or Completing Offering:
Installer-Residential (Solar System), Installer-Commercial
(Solar Systems), Trade Specialty, Plumber, Sheet Metal
Worker

Solar Related Courses

Systems and Equipment

Instructor: Whitcomb, Larry
(701) 671-2529
Course Number: ESD 203
Department: Environmental Systems
Credits: 3
Student Level: All levels
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 60
Classroom: 60
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Intro. To Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Installation; Solar Systems Maintenance
Number of Times Taught: 1
Average Enrollment: 25

OHIO

North American Heating and Air Conditioning Wholesalers Association [90400]

Home Study Institute

1661 West Henderson
Columbus, Ohio 43220

Programs and Curricula

*Home Study Program

Contact: Healy, James
(614) 459-2100
Students Taking or Completing Offering:
Solar Technician

OKLAHOMA

None

OREGON

Linn-Benton Community College [6938]

Albany, Oregon 97321
(503) 928-2361

Programs and Curricula

Engineering Technology - Solar Energy Option

Degree: AD, Engineering Tech
Contact: Miller, Dave
(503) 928-2361

Solar Related Courses

Alternate Energy Sources

Course Number: 3.527
Department: Engineering Technology
Program or Curriculum: Engineering Tech. - Solar Energy Option
Credits: 4
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 33
Laboratory: 33

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design/ Elec'l Generation, Small Scale; Wind Power; Small Systems
Number of Times Taught: 4
Average Enrollment: 15

Energy Systems Management

Course Number: 6.220
Department: Engineering Technology
Program or Curriculum: Engineering Tech. - Solar Energy Option
Credits: 3

Student Level: Freshman or Sophomore
Duration: 11 Weeks, 3.0 hrs per week
Contact Hours: 33
Classroom: 33

Topics Covered Extensively: Energy Conservation; Energy Conversion; Heat and Energy Transfer; Intro. to Solar Systems Maintenance; Solar Systems Testing and Evaluation; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Industrial; Space Heating; Space Cooling; Wind Power, Central Systems; Wind Power, Small Systems

Solar Energy

Course Number: 6.221
Department: Engineering Technology
Program or Curriculum: Engineering Tech. - Solar Energy Options
Credits: 3
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 3.0 hrs per week
Contact Hours: 33
Classroom: 33

Topics Covered Extensively: Biomass Conversion; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Materials Research; Passive Solar Technology; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Testing and Evaluation; Domestic Hot Water; Elec'l Generation, Small Scale; Space Heating; Wind Power, Small Systems

Number of Times Taught: 2
Average Enrollment: 12

PENNSYLVANIA

Keystone Junior College [3280]

La Plume Pennsylvania 18440
(707) 945-5141

Programs and Curricula

Solar Engineering Technology

Degree: AU, Applied Science in Solar Engineering Technology
Contact: Kutch, Dennis/Cupilleri, Tom
(717) 945-5141

Students Taking or Completing Offering:
Solar Technician

Solar Related Courses

Sizing, Installation & Operation - Solar Heating (Residential Buildings)

Instructor: Kutch, Dennis
(717) 945-5141
Department: Solar Energy Study & Res. Cnt.
Program or Curriculum: Solar Engineering Technology
Student Level: All levels
Duration: 2 Weeks, 36.0 hrs per week
Contact Hours: 72
Classroom: 30
Laboratory: 42

Topics Covered Extensively: Energy Conservation; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Home Construction; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating

Solar Hydronic Systems/Solar Air Systems

Instructor: Kutch, Dennis
(717) 945-5141
Course Number: 220
Department: Solar Energy Study & Res. Cnt.
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: All levels
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48

Classroom: 30
Laboratory: 18

Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Economics; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating

Training - Design of Solar Heating Systems for Buildings

Instructor: Kutch, Dennis
(717) 945-5141

Department: Solar Energy Study & Res. Cnt.
Program or Curriculum: Solar Engineering Technology
Student Level: Junior or Senior
Duration: 2 Weeks, 36.0 hrs per week
Contact Hours: 72
Classroom: 42
Laboratory: 30

Topics Covered Extensively: Energy Conservation; Energy Storage; Heat and Energy Transfer; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating

Pennsylvania Institute of Technology [90180]

414 Sansom St.
Upper Darby, Pennsylvania 19082

Programs and Curricula

Energy Technology

Degree: AD, Specialized Technology
Contact: Thomas, Richard B.
Students Taking or Completing Offering:
Solar Technician, Electrician

Solar Related Courses

Advanced Solar Design

Instructor: Thomas, Richard
(215) 352-7100
Course Number: K
Program or Curriculum: Energy Technology
Credits: 2
Student Level: High School Graduate
Duration: 12 Weeks, 4.0 hrs per week
Contact Hours: 48
Topics Covered Extensively: Solar Collector Evaluation/Design; Solar Systems Design
Number of Times Taught: 1
Average Enrollment: 35

Basic Solar Design

Instructor: Thomas, Richard B.
(215) 352-7100
Course Number: D
Program or Curriculum: Energy Technology
Credits: 1
Student Level: High School Graduate
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 60
Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Solar Home Construction; Solar Collector Evaluation/Design
Number of Times Taught: 1
Average Enrollment: 35

Energy Conversion

Instructor: Thomas, Richard
(215) 352-7100
Course Number: B
Program or Curriculum: Energy Technology
Credits: 4
Student Level: High School Graduate
Duration: 12 Weeks, 5.0 hrs per week
Contact Hours: 60
Topics Covered Extensively: Alternate Energy Sources; Energy Conversion; Intro. to Solar Energy; Wind Power, Small Systems
Number of Times Taught: 1
Average Enrollment: 35

Pennsylvania State University - Shenango Valley Campus

[3345]

Sharon, Pennsylvania 16146
(412) 981-1640

Programs and Curricula

Solar Heating and Cooling Technology

Degree: Short Course Certificate
Contact: Houlihan, John F.
(412) 981-1640

Solar Related Courses

Fundamentals of Solar Energy

Instructor: Houlihan, J. F.
(421) 981-1640
Course Number: PHYS. 296
Department: Physics
Program or Curriculum: Solar Heating and Cooling Tech.
Credits: 2
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 2.0 hrs. per week
Contact Hours: 20
Classroom: 15
Laboratory: 5

Topics Covered Extensively: Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating; Space Cooling; Wind Power, Central Systems

Number of Times Taught: 2

Average Enrollment: 12

Introduction to Solar Energy

Instructor: Houlihan, J. F.
(412) 981-1640
Course Number: PHYS. 297
Department: Physics
Program or Curriculum: Solar Heating and Cooling Tech.
Credits: 2
Student Level: Freshman or Sophomore
Duration: 10 Weeks, 3.0 hrs per week
Contact Hours: 30
Classroom: 28
Laboratory: 2

Topics Covered Extensively: Intro. to Solar Energy; Space Heating; Wind Power, Central Systems

Number of Times Taught: 2

Average Enrollment: 15

Solar Heating and Cooling Technology

Instructor: Houlihan, J. F.
(412) 981-1640
Course Number: PHYS. 297
Department: Physics
Program or Curriculum: Solar Heating and Cooling Tech.
Credits: 1
Student Level: All levels
Duration: 2 Weeks, 40.0 hrs per week
Classroom: 60
Laboratory: 12

Topics Covered Extensively: Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Marketing/Market Analysis; Passive Solar Technology; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Space Heating, Space Cooling

Number of Times Taught: 1

Average Enrollment: 30

Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating
Number of Times Taught: 2
Average Enrollment: 25

Triangle Institute of Technology, Inc. [90110]
635 Smithfield St.
Pittsburgh, Pennsylvania 15222
(412) 255-6170

Programs and Curricula

Solar Energy Systems

Degree: AD, Specialized Technology
Contact: Kroyer, Ralph
(412) 255-6170

Students Taking or Completing Offering: Solar Technician; Electrician, Plumber, Sheet Metal Worker

Solar Related Courses

Solar Energy Systems

Instructor: Kroyer, Ralph
(412) 255-6170
Course Number: 400.0
Department: Refrig., Heat., Vent., and Air Cond.
Program or Curriculum: Solar Energy Systems
Credits: 10
Student Level: High School Graduate
Duration: 16 Weeks, 25.0 hrs per week
Contact Hours: 390
Classroom: 90
Laboratory: 300
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

RHODE ISLAND

None

SOUTH CAROLINA

Beaufort Technical Education Center [9910]
Beaufort, South Carolina 29902
(803) 524-3380

Programs and Curricula

Refrigeration and Air Conditioning — Solar Energy Applications

Degree: AD, Refrigeration and Air Conditioning, General Technology
Contact: Spivey, Edward F.
(803) 524-0148

Students Taking or Completing Offering: Installer-Residential (Solar System), Solar Technician, Trade Specialty

Solar Related Courses

Solar Energy Application

Instructor: Spivey, E.F.
(803) 524-0148
Course Number: ARC 240
Department: Refrigeration and Air Conditioning
Program or Curriculum: Refrigeration and Air Conditioning-Solar Energy Appli.
Credits: 4
Student Level: High School Graduate
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 33
Laboratory: 33
Topics Covered Extensively: Heat and Energy Transfer

Florence Darlington Tech [3990]
Florence, South Carolina 29502
(803) 662-8151

Programs and Curricula

Conversion of Solar Energy

Degree: Climate Control
Contact: Jackson, Edward (803) 662-8151

Solar Related Courses

Conversion of Solar Energy

Instructor: Jackson, Edward
(803) 662-8151
Course Number: ARC 204
Department: Industrial Trades - Climate Control
Program or Curriculum: Conversion of Solar Energy
Credits: 4
Student Level: High School Graduate
Duration: 11 Weeks, 6.0 hrs per week
Contact Hours: 66
Classroom: 33
Laboratory: 33
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Intro. to Solar Energy; Solar Systems Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water
Number of Times Taught: 4
Average Enrollment: 25

Trident Technical College [8818]

PO Box 10367
Charleston, South Carolina 29411
(803) 553-2375

Programs and Curricula

Air Conditioning — Refrigeration

Degree: Air Conditioning — Refrigeration
Contact: Moore, James L.
(803) 572-6180

Students Taking or Completing Offering: Installer-Residential (Solar System)

Solar Related Courses

Solar Heating

Instructor: Moore, James L.
(803) 572-6180
Department: Air Conditioning — Refrigeration
Program or Curriculum: Air Conditioning — Refrigeration
Student Level: High School Graduate
Duration: 3 Weeks, 30.0 hrs per week
Contact Hours: 90
Classroom: 30
Laboratory: 60
Topics Covered Extensively: Heat and Energy Transfer; Solar System Components; Solar Collector Evaluation/Design; Domestic Hot Water; Space Heating

York Technical College [3996]

Rock Hill, South Carolina 29730
(803) 328-3843

Programs and Curricula

Conversion of Solar Energy

Degree: Air Conditioning, Refrigeration, and Heating
Contact: White, Lacy
(803) 324-3130
Students Taking or Completing Offering: Installer-Residential (Solar System), Installer-Commercial (Solar System), Trade Specialty

Solar Related Courses

Conversion of Solar Energy

Instructor: White, Lacy

Topics Covered Extensively: Plumbing Techniques; Solar Systems Installation: Domestic Hot Water; Space Heating
Number of Times Taught: 1
Average Enrollment: 18

SOUTH DAKOTA

None

TENNESSEE

Motlow State Community College [6836]

Tullahoma, Tennessee 37388
(615) 455-8511

Programs and Curricula

Energy Engineering Technology

Degree: AD, Engineering Technology —
Energy Engineering Emphasis
Contact: Thornton, Otis B.
(615) 455-8511

Students Taking or Completing Offering: Installer-Residential (Solar System), Researcher, Solar Technician

Solar Related Courses

Solar Energy Applications

Instructor: Lowndes, Richard
(615) 455-8511
Course Number: ERG 205
Department: Career Education
Program or Curriculum: Energy Engineering
Credits: 3
Student Level: All levels
Duration: 10 Weeks, 5.0 hrs per week
Contact Hours: 50
Classroom: 20
Laboratory: 30

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating

Solar Energy Theory

Instructor: Lowndes, Richard
(615) 455-8511
Course Number: ERG 204
Department: Career Education
Program or Curriculum: Energy Engineering Technology
Credits: 4
Student Level: All levels
Duration: 10 Weeks, 5.0 hrs per week
Contact Hours: 50
Classroom: 20
Laboratory: 30

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar Systems Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating

TEXAS

Central Texas College [4003]

Killeen, Texas 76541
(817) 526-1211

Programs and Curricula

Solar Energy Systems Specialist

Degree: Certificate of Completion
Contact: Tresler, Clarence
(817) 526-1236

Students Taking or Completing Offering: Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician, Trade Specialty

Solar Energy Systems Technology

Degree: AD, Applied Science

Contact: Tresler, Clarence
(817) 526-1236

Students Taking or Completing Offering: Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician, Trade Specialty

Solar Related Courses

Principles of Solar Energy

Instructor: Tresler, Clarence
(817) 526-1236
Course Number: SESY 1314
Department: Industrial Technology
Program or Curriculum: Solar Energy Systems Technology/
Solar Energy Systems Specialist
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Classroom: 48
Topics Covered Extensively: Intro. to Solar Energy
Number of Times Taught: 2
Average Enrollment: 25

Solar Cooling Systems

Instructor: Tresler, Clarence
(817) 526-1236
Course Number: SESY 241
Department: Industrial Technology
Program or Curriculum: Solar Energy Systems Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

Solar Energy Special Projects

Instructor: Tresler, Clarence
(817) 523-1236
Course Number: SESY 231
Department: Industrial Technology
Program or Curriculum: Solar Energy Systems Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 16
Laboratory: 80

Topics Covered Extensively: Energy Conversion; Energy Storage; Heat and Energy Transfer; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Swimming Pool Heating; Space Heating; Space Cooling

Solar Heating Systems

Instructor: Tresler, Clarence
(817) 526-1236
Course Number: SESY 141
Department: Industrial Technology
Program or Curriculum: Solar Energy Systems Technology/
Solar Energy Systems Specialist
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48

Topics Covered Extensively: Energy Storage; Heat and Energy Transfer; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems

Navarro College [3593]
Corsicana, Texas 75110
(214) 874-6501

Programs and Curricula

Solar Energy Installers-Mechanics

Degree: OTHER, Solar Energy Installers,
Mechanics
Contact: Kaspzyk, Ernest
(214) 874-6501

Students Taking or Completing Offering: Installer-
Residential (Solar System), Installer-Commercial (Solar
System)

Solar Engineering Technology

Degree: AD, Applied Science — Solar
Engineering Technology
Contact: Myers, Arthur
(214) 874-6501

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Collector and Energy Storage

Instructor: Myers, Arthur
(214) 874-6501
Program or Curriculum: Solar Engineering Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 32
Laboratory: 64

Topics Covered Extensively: Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Materials Research; Passive Solar Technology; Plumbing
Techniques; Sheet Metal Techniques; Solar System
Components; Solar Home Construction; Solar Collector
Evaluation/Design; Solar Collector Evaluation/Design;
Solar Systems Design; Solar Systems Installation; Solar
Systems Maintenance; Domestic Hot Water; Swimming
Pool Heating; Space Heating; Space Cooling

Collectors, Energy Storage, Installation and Service

Instructor: Norman, Albion
(214) 874-6501
Course Number: SE1044
Program or Curriculum: Solar Energy Installers/ Mechanics
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 32
Laboratory: 64

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Storage; Heat and Energy Transfer; Intro. to Solar Energy
Passive Solar Technology; Plumbing Techniques; Sheet
Metal Techniques; Solar System Components; Solar
Collector Evaluation/Design; Solar Systems Design; Solar
Systems Installation; Solar Systems Maintenance; Solar
Systems Testing and Evaluation; Domestic Hot Water;
Space Heating; Space Cooling

Economics, Codes, Legal, Consumerism

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 2
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 2.0 hrs per week
Contact Hours: 32
Classroom: 32

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Marketing/Market Analysis;
Solar Economics; Solar Home Construction; Solar Law/
Legislation; Solar Collector Evaluation/Design; Solar
Systems Testing and Evaluation; Domestic Hot Water;
Swimming Pool Heating; Space Heating; Space Cooling

Energy Science I

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Intro. to Solar Energy; Plumbing Techniques; Sheet Metal
Techniques; Solar System Components; Solar Systems
Design; Solar Systems Installation; Solar Systems Mainte-
nance; Domestic Hot Water; Space Heating; Space
Cooling

Energy Science II

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Energy
Conversion; Energy Storage; Heat and Energy Transfer;
Intro. to Solar Energy; Plumbing Techniques; Sheet
Metal Techniques; Solar System Components; Solar
Systems Design; Solar Systems Installation; Solar
Systems Maintenance; Domestic Hot Water; Space
Heating; Space Cooling

Introduction to Solar Heating and Cooling

Instructor: Norman, Albion
(214) 874-6501
Course Number: SE1013
Department: Occupational Education
Program or Curriculum: Solar Energy Installers/ Mechanics
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Classroom: 48

Topics Covered Extensively: Alternate Energy Sources;
Appropriate Technology; Energy Conservation; Heat and
Energy Transfer; Intro. to Solar Energy; Passive Solar
Technology; Plumbing Techniques; Solar System Com-
ponents; Solar Home Construction; Solar Systems
Design; Domestic Hot Water; Elec'l Generation, Small
Scale; Space Heating; Space Cooling

Number of Times Taught: 1

Average Enrollment: 23

Materials and Fabrication

Instructor: Vaughn, Ralph
(214) 874-6501
Course Number: SE1034
Department: Occupational Education
Program or Curriculum: Solar Energy Installers/ Mechanics
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 32
Laboratory: 64

Topics Covered Extensively: Energy Storage; Heat and
Energy Transfer; Materials Research; Plumbing Tech-
niques; Sheet Metal Techniques; Solar System Compo-
nents; Solar Home Construction; Solar Systems Design;
Solar Systems Installation; Solar Systems Maintenance;
Solar Systems Testing and Evaluation; Domestic Hot
Water; Space Heating; Space Cooling

Materials and Material Handling

Instructor: Myers, Arthur
(214) 874-6501
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 5.0 hrs per week
Contact Hours: 80
Classroom: 16
Laboratory: 64
Topics Covered Extensively: Materials Research; Plumbing Techniques; Sheet Metal Techniques; Domestic Hot Water; Space Heating; Space Cooling

Non-residential Applications & Future Technology

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 5.0 hrs per week
Contact Hours: 80
Classroom: 32
Laboratory: 48
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Passive Solar Technology; Photovoltaics; Solar System Components; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Swimming Pool Heating; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling

Operational Diagnosis

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 5.0 hrs per week
Contact Hours: 80
Classroom: 32
Laboratory: 48
Topics Covered Extensively: Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

Sizing Design and Retrofit

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 48
Laboratory: 48
Topics Covered Extensively: Solar Home Construction; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

Solar Heating and Cooling Systems

Instructor: Myers, Arthur
(214) 874-6501
Course Number: SE1064
Department: Occupational Education
Program or Curriculum: Solar Energy Installers/ Mechanics
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 32
Laboratory: 64

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Materials Research; Passive Solar Technology; Plumbing Techniques; Sheet Metal Techniques; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling
Average Enrollment: 15

Solar Practicum

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Laboratory: 48
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Intro. to Solar Energy; Materials Research; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

Technical Surveys of Energy Sources

Instructor: Myers, Arthur
(214) 874-6501
Department: Solar Energy
Program or Curriculum: Solar Engineering Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Classroom: 48
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Biomass Conversion; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Photovoltaics; Domestic Hot Water; Swimming Pool Heating; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling; Wind Power, Central Systems; Wind Power, Small Systems

North Lake College [29066]

Irving, Texas 75062
(214) 255-5229

Programs and Curricula

Solar Energy Technician

Degree: AD, Solar Technology
Contact: Knowles, Jim
(214) 255-5325

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Energy Science I

Instructor: Knowles, Jim
(214) 255-5260
Department: Science/Math/Technology
Program or Curriculum: Solar Energy Technician
Credits: 4
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Topics Covered Extensively: Energy Conversion; Heat and Energy Transfer

Future Technology

Instructor: Knowles, Jim
(214) 255-5260
Department: Science/Math/Technology
Program or Curriculum: Solar Energy Technician
Credits: 3

Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 3.0 hrs per week
 Contact Hours: 48
 Classroom: 48
 Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Domestic Hot Water; Swimming Pool Heating; Elec'l Generation, Central; Elec'l Generation, Small Scale; Process Heat, Agricultural; Process Heat, Industrial; Space Cooling

Introduction to Solar

Instructor: Knowles, Jim
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 2
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks; 2.0 hrs per week
 Contact Hours: 32
 Classroom: 32
 Topics Covered Extensively: Energy Conservation; Passive Solar Technology

Materials — Material Handling

Instructor: Knowles, Jim
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 5.0 hrs per week
 Contact Hours: 80
 Classroom: 16
 Laboratory: 64
 Topics Covered Extensively: Plumbing Techniques; Sheet Metal Techniques

Operational Diagnosis

Instructor: Knowles, Jim
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 4.0 hrs per week
 Contact Hours: 64
 Classroom: 32
 Laboratory: 32
 Topics Covered Extensively: Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation

Sizing Design and Retrofit

Instructor: Knowles, Jim
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 5
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 7.0 hrs per week
 Contact Hours: 112
 Classroom: 48
 Laboratory: 64
 Topics Covered Extensively: Solar Systems Design; Solar Systems Installation

Solar Codes and Consumerism

Instructor: Knowles, J.
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 2
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 2.0 hrs per week
 Contact Hours: 32
 Classroom: 32
 Topics Covered Extensively: Marketing/Market Analysis; Solar Energy Policy Development; Solar Economics; Solar Law/Legislation

Solar Practicum

Instructor: Knowles, Jim

(214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 5
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks, 5.0 hrs per week
 Contact Hours: 80

Technical Survey of Energy Sources

Instructor: Knowles, J
 (214) 255-5260
 Department: Science/Math/Technology
 Program or Curriculum: Solar Energy Technician
 Credits: 3
 Student Level: Freshman or Sophomore
 Duration: 16 Weeks
 Topics Covered Extensively: Alternate Energy Sources; Biomass Conversion; Energy Conservation; Energy Conversion; Wind Power, Central Systems

Odessa College [3596]

Odessa, Texas 79760
 (915) 337-5381

Programs and Curricula

Solar Power

Contact: Witcher, Norman
 (915) 337-5381

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Solar Power

Instructor: Witcher, Norman
 (915) 337-5381
 Course Number: R/AC 2300

Department: Refrigeration & Air Conditioning

Program or Curriculum: Solar Power

Credits: 6

Student Level: Freshman or Sophomore

Duration: 16 Weeks, 10.0 hrs per week

Contact Hours: 160

Classroom: 48

Laboratory: 112

Topics Covered Extensively: Appropriate Technology; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar Systems Components; Solar Systems Design; Solar Systems Installation; Solar System Maintenance; Space Heating

Number of Times Taught: 1

Average Enrollment: 38

Ranger Junior College [3603]

Ranger, Texas 76470
 (817) 647-3234

Programs and Curricula

Air Conditioning & Refrigeration — Solar Energy Option

Degree: AD, Applied Science

Contact: Stiles, Alton

(817) 647-3234

Students Taking or Completing Offering: Solar Technician

Solar Related Courses

Air Conditioning and Refrigeration — VII

Course Number: AR 281

Department: Air Cond. & Ref.

Program or Curriculum: A/C and Refrig. — Sol. Ener. Option

Credits: 6

Student Level: Freshman or Sophomore

Topics Covered Extensively: Heat and Energy Transfer; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Space Heating; Space Cooling

Fundamentals of Solar Heating & Cooling

Course Number: AR 263

Department: Air Cond. & Refrig.

Program or Curriculum: A/C and Refrig. — Sol. Ener. Option

Credits: 6
Student Level: Freshman or Sophomore
Topics Covered Extensively: Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Space Heating; Space Cooling

Solar Thermal Energy Systems

Instructor: Stiles, Alton
(817) 647-3234
Course Number: AR 264
Department: Air Conditioning/Refrigeration
Program or Curriculum: A/C and Refrig. — Sol. Ener. Option
Credits: 6
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 10.0 hrs per week
Contact Hours: 160
Classroom: 32
Laboratory: 128

Topics Covered Extensively: Plumbing Techniques; Solar Systems Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Elec'l Generation, Small Scale; Space Heating; Space Cooling

Tyler Junior College [3648]

Tyler, Texas 75701
(214) 597-4281

Programs and Curricula

Air Conditioning & Refrigeration Technology

Degree: AD, Applied Science
Contact: Minter, Richard T.
(214) 593-4401

Students Taking or Completing Offering: Trade Specialty

Solar Related Courses

Introduction to Solar Systems

Instructor: Robinson, Carol T.
(214) 592-8619
Course Number: AC 113S
Department: Technology
Program or Curriculum: Air Conditioning & Refrig. Tech.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 3.0 hrs per week
Contact Hours: 48
Classroom: 48
Topics Covered Extensively: Intro. to Solar Energy
Average Enrollment: 31

Solar Systems Installation

Instructor: Robinson, Carol T.
(214) 592-8619
Course Number: AC 223S
Department: Technology
Program or Curriculum: Air Conditioning & Refrig. Tech.
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 6.0 hrs per week
Contact Hours: 96
Classroom: 32
Laboratory: 64

Topics Covered Extensively: Solar System Components; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating

Average Enrollment: 18

UTAH

Dixie College [3671]
Saint George, Utah 84770
(801) 673-4811

Programs and Curricula

Solar Technology

Degree: Certificate of Completion
Contact: Hacking, John
(801) 673-4811

Solar Related Courses

Introduction to Applied Solar Energy

Instructor: Tait, Don
(801) 673-4811
Course Number: ST 150
Department: Engineering Tech.
Program or Curriculum: Solar Technology
Credits: 4
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 5.0 hrs per week
Contact Hours: 55
Classroom: 55

Topics Covered Extensively: Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Marketing/Market Analysis; Materials Research; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

Number of Times Taught: 12

Average Enrollment: 20

Solar Energy — Home Use Applications

Instructor: Tait, Don
(801) 673-4811
Course Number: ST 123
Department: Engineering Tech.
Program or Curriculum: Solar Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 3.0 hrs per week
Contact Hours: 33
Classroom: 16
Laboratory: 15

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Conversion; Energy Storage; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Economics; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Domestic Hot Water; Space Heating; Space Cooling

Number of Times Taught: 9

Average Enrollment: 18

VERMONT, VIRGINIA

None

WASHINGTON

North Seattle Community College [9704]

Seattle, Washington 98103
(206) 634-4444

Programs and Curricula

Heating — Solar Energy

Contact: Swenson, Don
(206) 634-4419

Students Taking or Completing Offering: Sheet Metal Worker

Solar Related Courses

Heating — Solar Energy

Instructor: Swenson, Don
(206) 634-4419
Department: Engineering Technology
Program or Curriculum: Heating-Solar Energy
Student Level: High School Graduate
Duration: 6 Weeks, 15.0 hrs per week
Contact Hours: 90
Classroom: 45
Laboratory: 45

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Intro. to Solar Energy; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Space Heating

Solar Energy

Instructor: Stepnich, Ivan
(206) 634-4423
Course Number: ECT 207
Department: Engineering Related Technologies
Program or Curriculum: Heating-Solar Energy
Credits: 3
Student Level: Freshman or Sophomore
Duration: 11 Weeks, 3.0 hrs per week
Contact Hours: 33
Classroom: 33

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Conversion; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Passive Solar Technology; Plumbing Techniques; Solar System Components; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Testing and Evaluation; Domestic Hot Water; Elec'l Generation, Central; Process Heat, Industrial; Space Heating

Number of Times Taught: 1
Average Enrollment: 25

WEST VIRGINIA

None

WISCONSIN

Moraine Park Technical Institute [9256]

Fond Du Lac, Wisconsin 54935
(414) 922-8611

Programs and Curricula

Solar Energy

Contact: Pasch, Rodney
(414) 922-8611

Students Taking or Completing Offering: Contractor, Do-it-yourself Homeowner, Electrician, Plumber, Sheet Metal Worker

Solar Related Courses

Solar Applications for Construction Industry

Instructor: Pasch, Rodney
(414) 922-8611
Course Number: 401-479
Department: Trade and Technical
Program or Curriculum: Solar Energy
Credits: 2
Student Level: All levels
Duration: 1 Week, 6.0 hrs per week
Contact Hours: 6

Topics Covered Extensively: Intro. to Solar Energy; Solar Home Construction

Number of Times Taught: 5
Average Enrollment: 80

Solar Energy — Air Handling Systems

Instructor: Pasch, R.
(414) 922-8611
Course Number: 401-483
Department: Trade and Technical
Program or Curriculum: Solar Energy
Credits: 5
Student Level: All levels
Duration: 10 Weeks, 2.0 hrs per week
Contact Hours: 20
Classroom: 20

Topics Covered Extensively: Heat and Energy Transfer; Solar System Components; Space Heating

Number of Times Taught: 2
Average Enrollment: 20

Solar Energy for Realtors

Instructor: Pasch, R.
(414) 922-8611
Course Number: 401-425
Department: Trade and Technical
Program or Curriculum: Solar Energy
Credits: 3
Student Level: All levels
Duration: 2 Weeks, 5.0 hrs per week
Contact Hours: 10
Topics Covered Extensively: Alternate Energy Sources
Number of Times Taught: 1
Average Enrollment: 40

Solar Energy Seminar

Instructor: Pasch, R.
(414) 922-9611
Course Number: 401-482
Department: Trade and Technical
Program or Curriculum: Solar Energy
Credits: 1
Student Level: All levels
Duration: 1 Week, 4.0 hrs per week
Contact Hours: 4
Classroom: 4
Topics Covered Extensively: Alternate Energy Sources
Number of Times Taught: 2
Average Enrollment: 100

Solar Heat and Wind

Instructor: Pasch, Rodney
(414) 922-8611
Course Number: 401-480
Department: Trade & Technical
Program or Curriculum: Solar Energy
Credits: 5
Student Level: All levels
Duration: 2 Weeks, 10.0 hrs per week
Contact Hours: 20
Topics Covered Extensively: Space Heating; Wind Power, Small Systems
Number of Times Taught: 5
Average Enrollment: 17

Wind Energy Applications

Instructor: Pasch, R.
(414) 922-8611
Course Number: 401-484
Department: Trade and Technical
Program or Curriculum: Solar Energy
Credits: 2
Student Level: All levels
Duration: 1 Week, 6.0 hrs per week
Contact Hours: 6
Topics Covered Extensively: Elec'l Generation, Small Scale; Wind Power, Small Systems
Number of Times Taught: 1
Average Enrollment: 40

WYOMING

Sheridan College [3930]

Sheridan, Wyoming 82801
(307) 674-6446

Program and Curricula

Solar Energy Technology

Degree: AD, Engineering Technology — Solar Option
Contact: Ohm, Kenneth R.
(307) 674-6446

Students Taking or Completing Offering: Installer-Residential (Solar System), Installer-Commercial (Solar System), Solar Technician, Do-it-yourself Homeowner

Solar Related Courses

Energy Storage

Course Number: 152
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore

Topics Covered Extensively: Energy Storage; Photovoltaics; Wind Power, Small Systems

Installation and Service — Solar System

Course Number: 158
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore
Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design; Solar Systems Installation; Solar Systems Maintenance; Solar Systems Testing and Evaluation; Space Heating; Space Cooling

Intro. to Solar Heating & Cooling

Course Number: 150
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore
Topics Covered Extensively: Intro. to Solar Energy; Materials Research; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Elec'l Generation, Small Scale; Space Heating; Space Cooling

Solar Collectors

Course Number: 151
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore
Topics Covered Extensively: Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Testing and Evaluation

Solar Energy Fundamentals

Instructor: Ohm, Kenneth R.
(307) 674-6446
Course Number: 19-190
Department: Career/Tech
Program or Curriculum: Solar Energy Technology
Credits: 3
Student Level: Freshman or Sophomore
Duration: 16 Weeks, 4.0 hrs per week
Contact Hours: 60
Classroom: 48
Laboratory: 12
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Storage; Heat and Energy Transfer; Intro. to Solar Energy; Solar Home Construction; Solar Collector Evaluation/Design; Solar Systems Design; Solar Systems Installation; Solar Systems Maintenance; Domestic Hot Water; Process Heat, Industrial; Space Heating; Space Cooling; Wind Power, Central Systems; Wind Power, Small Systems
Number of Times Taught: 2
Average Enrollment: 35

Solar Heating and Cooling Systems

Course Number: 155
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore
Topics Covered Extensively: Energy Storage; Solar System Components; Solar Collector Evaluation/Design; Solar Systems Design; Domestic Hot Water; Process Heat, Agricultural; Process Heat, Industrial; Space Heating; Space Cooling

Wind Systems

Course Number: 153
Program or Curriculum: Solar Energy Technology
Student Level: Freshman or Sophomore
Topics Covered Extensively: Wind Power, Central Systems; Wind Power, Small Systems

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