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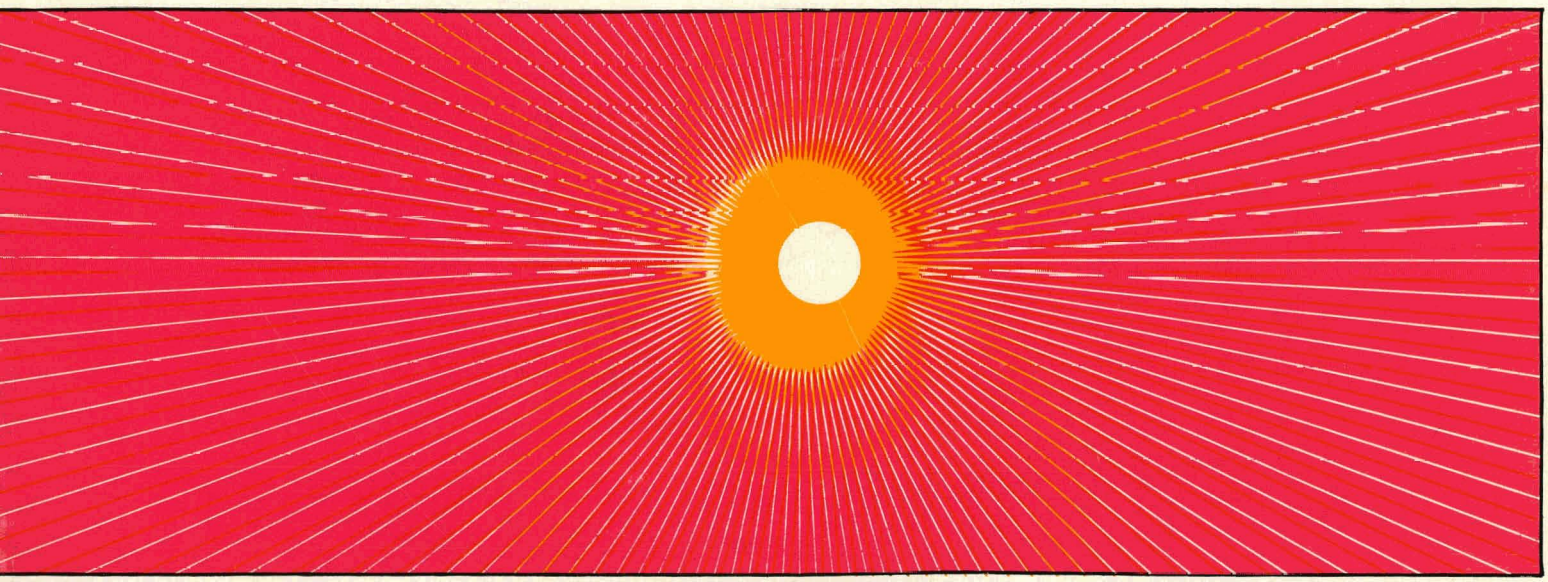
National Solar Energy Education Directory

MASTER

Second Edition
January 1980



Prepared by

George Corcoleotes
Stephen Cronin
Katherine Kramer
Kevin O'Connor

In cooperation with the office of
U.S. Congressman George E. Brown, Jr.,
and the Congressional Solar Coalition

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SERI
Solar Energy Research Institute
A Division of Midwest Research Institute
1617 Cole Boulevard
Golden, Colorado 80401

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Printed in the United States of America

Available in print from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
Stock Number: 061-000-00368-1

Available in microfiche from:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
Stock Number: SERI/SP-401-516

National Solar Energy Education Directory

UC Category: UC-58c

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Published by

Solar Energy Information Data Bank

Managed by the

Solar Energy Research Institute

1617 Cole Boulevard, Golden, Colorado 80401

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Foreword

The production of the *National Solar Energy Education Directory, Second Edition,* represents the culmination of a project initiated in June of 1978 and updated during 1979.

The survey of solar energy educational activities of post-secondary institutions in the United States was conducted by the Office of U.S. Congressman George E. Brown, Jr. in cooperation with the Congressional Solar Coalition. The Solar Energy Research Institute (SERI) agreed to be the processing agent for the survey responses. Information received was used to create the Education Data Base which became part of the congressionally-mandated* Solar Energy Information Data Bank (SEIDB), a national network providing information on developing solar technologies to government, the commercial, scientific and educational communities, and the public.

The processing of information and production of this directory was conducted by the Academic Programs Branch and the Information Systems Division of SERI on behalf of the U.S. Department of Energy.

Users of this directory are invited and encouraged to contribute to its future growth and development. A postage-paid response card for comments and suggestions is included at the back of this publication.

National Solar Energy Education Directory, Second Edition
SERI/SP-401-516
Approved for:
Solar Energy Research Institute

George Warfield
Director for Technology Dissemination

* Solar Energy Research, Development, and Demonstration Act of 1974 (Public Law 93-473).

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User's Response Card

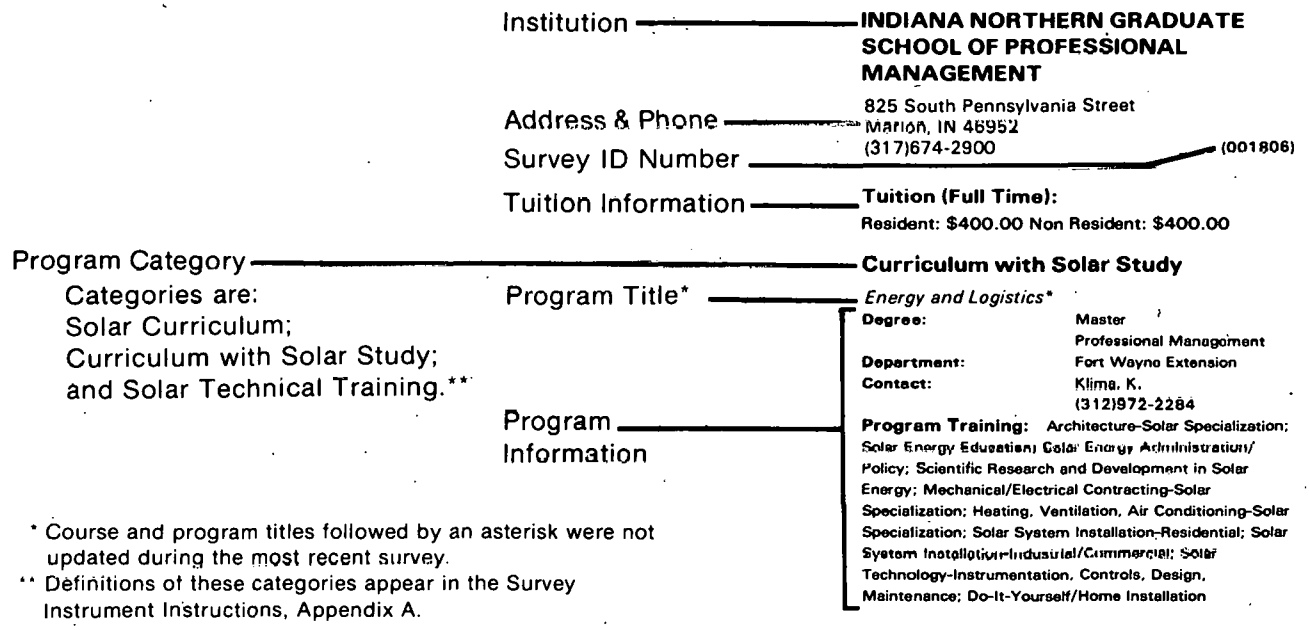
Introduction

Preparation

The information contained in this directory is derived from responses to a national survey of educational institutions and organizations involved in solar energy educational activities beyond the secondary school level. Its completeness, accuracy, and reliability is based on these responses and, in some cases, our best interpretation of the information received. Phone calls and follow-up mail requests were used to gather additional information when necessary. Every survey instrument was read, coded, and edited before entry into the data base from which this directory was produced. Questions concerning information listed for a particular institution should be addressed directly to that institution.

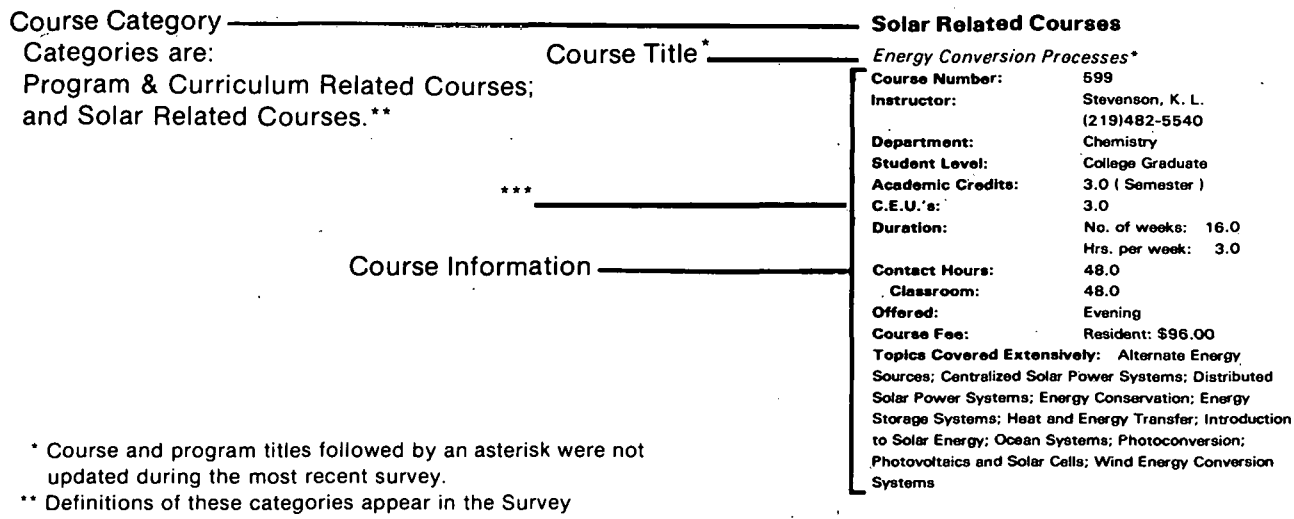
Organization

The Directory is organized alphabetically by state. Institutions and organizations within each state are categorized according to type (Colleges and Universities, Junior/Community Colleges, Vocational/Technical Schools, and Other Educational Institutions and Organizations) and listed alphabetically within these categories. Within each institutional listing the amount of information provided will vary according to the completeness of the survey response received from that institution. However, the presentation of information will conform, in format, to the following examples. (These entries have been altered slightly for demonstration purposes.)



* Course and program titles followed by an asterisk were not updated during the most recent survey.

** Definitions of these categories appear in the Survey Instrument Instructions, Appendix A.



* Course and program titles followed by an asterisk were not updated during the most recent survey.

** Definitions of these categories appear in the Survey Instrument Instructions, Appendix A.

*** C.E.U.'s are Continuing Education Units, used to give credit to persons taking courses not leading to an academic degree.

Indices at the back of the Directory include: an alphabetical index of institutions; an index to institutions offering solar-related degrees; and an index of program and curriculum titles.

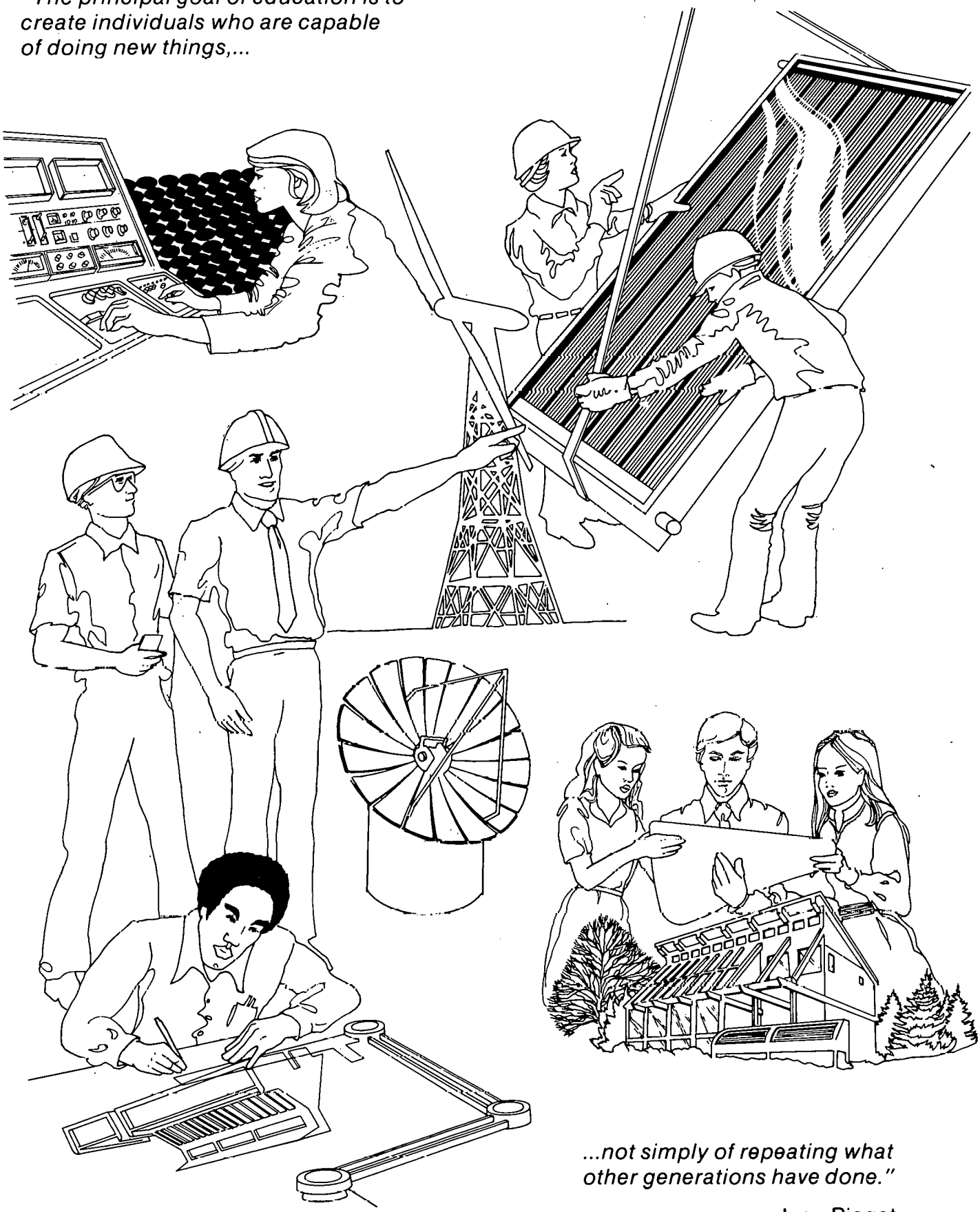
Update

To report any data errors or omissions discovered through the use of this directory, photocopy the entire page on which the error occurs, make the necessary corrections, and send it to the Solar Energy Research Institute. To add programs, courses, and/or curricula to future editions, the survey form included in Appendix A should be photocopied, completed, and returned. Address your information to:

Solar Energy Education Data Base
Attn: George Corcoleotes
Solar Energy Research Institute
1617 Cole Boulevard
Golden, Colorado 80401

Questions concerning the update of your institution's entry can be phoned to the Solar Energy Research Institute at (303) 231-1831.

"The principal goal of education is to create individuals who are capable of doing new things,...



...not simply of repeating what other generations have done."

Jean Piaget

Alabama

Colleges and Universities

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY

Patton Hall
Normal, AL 35762
(205)859-7011 (001002)

Solar Related Courses

Energy Technology
Instructor: Jenkins, Joseph R. (205)859-7320 EXT.320
Department: Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Solar Heating; Solar Systems Design

Heat Transfer
Course Number: MET 408
Instructor: Jenkins, Joseph (205)859-7320
Department: Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

AUBURN UNIVERSITY AT MONTGOMERY

ATL Highway
Montgomery, AL 36117
(205)279-9110 (008310)

Tuition (Full Time):

Resident: $175.00

Solar Related Courses

School Facility Planning
Course Number: AED 691
Instructor: Harrison, Barker (205)279-9110 EXT.439
Department: Administrator and Counselor Education
Student Level: College Graduate; Managerial
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 45.0
Job: 3.0
Lab: 7.0
Offered: Evening
Course Fee: Resident: $85.00
Prerequisites: No

AUBURN UNIVERSITY MAIN CAMPUS

Auburn, AL 36830
(205)826-4000 (001009)

Solar Related Courses

Solar Energy Utilization
Course Number: 683
Instructor: Goodling, J. S. (205)826-4579
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis

Special Problems and Terminal Project *
Course Number: 460/490
Instructor: Lechner, Norbert (205)826-4518
Department: Building Science, Architecture and Fine Arts
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Seminar: 30.0
Prerequisites: No

JACKSONVILLE STATE UNIVERSITY

Jacksonville, AL 36265
(205)435-9820 (001020)

Tuition (Full Time):

Resident: $250.00 Non Resident: $250.00

Solar Related Courses

Solar Heating and Cooling
Course Number: EG 391
Instructor: Yeh, Pu-Sen (205)435-9820 EXT.391
Department: Computer Science and Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $66.00; Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Heating

UNIVERSITY OF ALABAMA AT HUNTSVILLE

P O Box 1247
Huntsville, AL 35807
(205)895-6361 (001055)

Tuition (Full Time):

Resident: $256.00 Non Resident: $256.00

Solar Related Courses

Solar Energy Systems Design
Course Number: EG 644
Instructor: Chung, M. F. (205)895-6194
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Evening
Course Fee: Resident: $159.00; Non Resident: $159.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Solar Systems Analysis Part I *
Course Number: CE T67
Instructor: Humphries, William R. (205)453-3629; Nash, Jonathan M.
Department: Continuing Education
Student Level: College Graduate
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Course Fee: Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Design

Solar Systems Analysis Part II *
Course Number: CE T74
Instructor: Humphries, William R. (205)453-3629
Department: Continuing Education
Student Level: College Graduate
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Course Fee: Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Cooling; Solar Heating; Solar Systems Design

Survey of Solar Energy Principles I
Course Number: CE T69
Instructor: Guinn, Gerald R. (205)895-6361; Christensen, David L.
Department: Continuous Education
Student Level: All Levels; Managerial; Professional
C.E.U.'s: 4.0
Duration: No. of weeks: 2.0; Hrs. per week: 20.0
Contact Hours: 40.0
Offered: Day
Course Fee: Resident: $200.00; Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/ Maintenance

Survey of Solar Heating and Cooling *
Course Number: CE T49
Instructor: Humphries, William R. (205)453-3629
Department: Continuing Education
Student Level: College Graduate
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Course Fee: Resident: $135.00
Prerequisites: Yes

Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design

UNIVERSITY OF ALABAMA IN BIRMINGHAM

Birmingham, AL 35294
(205)934-4011 (001052)

Solar Related Courses

Energy Crisis and the Environment *

Course Number: ENV 2
Instructor: Young, John (204)934-3375
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0

Energy Crisis, Homeowners Alternatives *

Instructor: Garrison, Aubrey (205)871-7338
Department: Special Studies
Student Level: All Levels
Duration: No. of weeks: 6.0; Hrs. per week: 2.0
Contact Hours: 12.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Home Construction

UNIVERSITY OF MONTEVALLO

Montevallo, AL 35115
(205)665-2521 (001004)

Solar Related Courses

Energy and Civilization *

Course Number: 120
Instructor: Kwon, T. H. (205)665-2521
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.5
Contact Hours: 50.0
Classroom: 36.0
Lab. 14.0

Vocational / Technical Schools

BESSEMER STATE TECHNICAL COLLEGE

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

Tuition (Full Time):

Resident: $78.00

Solar Related Courses

Special Systems

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

CARVER STATE TECHNICAL COLLEGE

414 Stanton Street
Mobile, AL 36617
(205)473-8092 (060016)

Tuition (Full Time):

Resident: $75.00 Non Resident: $150.00

Solar Technical Training

Plumbing and Pipefitting - Solar Specialization

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

Program and Curriculum Related Courses

Solar Technology Industrial Operator

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

Alaska

Colleges and Universities

ALASKA METHODIST UNIVERSITY

Anchorage, AK 99504
(907)276-8181 (001061)

Solar Related Courses

Alaska's Energy Resources *

Course Number: PHYS 492
Instructor: Rutledge, Eugene
Department: Arts and Sciences
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 2.5
Contact Hours: 35.0
Classroom: 35.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Marketing/ Economic Analysis; Wind Energy Conversion Systems

Junior and Community Colleges

NORTHWEST COMMUNITY COLLEGE

Pouch 400
Nome, AK 99762
(907)443-2201 (013169)

Tuition (Full Time):

Resident: $15.00

Solar Related Courses

Energy Workshop

Course Number: GS 193
Instructor: McGuire, Nancy (907)443-2201
Department: Arts and Science
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 1.0; Hrs. per week: 15.0
Contact Hours: 15.0
Classroom: 12.0
Field Trips 3.0
Offered: Evening
Course Fee: Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Wind Energy Conversion Systems

Environment Society

Course Number: BIOL 103
Instructor: McGuire, Nancy (907)443-2201
Department: Arts and Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Offered: Evening
Course Fee: Resident: $15.00
Prerequisites: No

Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Wind Energy Conversion Systems

UNIVERSITY OF ALASKA ANCHORAGE COMMUNITY COLLEGE

Anchorage, AK 99504
(907)279-6602 (001084)

Solar Related Courses

*Topics on Solar and Wind Power **

Course Number: ENVS 194
Instructor: Wise, James L. (907)279-4523
Department: Natural Sciences, Mathematics
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Energy Policy Development; Solar Marketing/Economic Analysis; Wind Energy Conversion Systems

UNIVERSITY OF ALASKA KENAI COMMUNITY COLLEGE

Soldothna, AK 99669
(907)262-5801 (001088)

Solar Related Courses

*Alternative Sources I **

Course Number: ET 211
Instructor: Steffy, D. (907)262-5801
Department: Applied Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Process Heat; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

UNIVERSITY OF ALASKA TANANA VALLEY COMMUNITY COLLEGE

Fairbanks, AK 99701
(907)479-7035 (029093)

Solar Related Courses

*Construction and Analysis of Energy Effective Homes **

Course Number: PD 193
Instructor: Raggasch, Robert (907)479-7880
Department: Community Interest Programs
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Alternate Energy Sources

Arizona

Colleges and Universities

ARIZONA STATE UNIVERSITY

Tempe, AZ 85281
(602)965-9011 (001081)

Curriculum with Solar Study

Energy Systems Engineering

Degree: Doctorate, Master, Bachelor
Mechanical Engineering
Department: Mechanical and Energy Systems Eng.
Contact: Metzger, D. E. (602)965-3291
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Direct Energy Conversion

Course Number: MEE 487
Instructor: Backus, Charles E. (602)965-3421
Department: Mechanical Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Photovoltaics and Solar Cells

Direct Energy Conversion 583

Course Number: MEE 583
Instructor: Jacobson, D. (602)965-3885
Department: Mechanical and Energy Systems Eng.
Program: Energy Systems Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $100.00; Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion

Heat Transfer (Convection)

Course Number: MEE 586
Instructor: Florschuetz, L. W.
Department: Mechanical and Energy Systems Eng.
Program: Energy Systems Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $100.00; Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Photovoltaics - Professional Seminar

Course Number: MEE 591
Instructor: Backus, Charles E. (602)965-3421
Department: Mechanical Engineering
Program: Energy Systems Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

Solar Energy

Course Number: MEE 458
Instructor: Wood, Byard D. (602)965-7298
Department: Mechanical Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Testing/Evaluation

Thermal Systems Design

Course Number: MEE 446
Instructor: Metzger, D. E. (602)965-3291
Department: Mechanical and Energy Systems Eng.
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $100.00
Prerequisites: Yes

Solar Related Courses

Energy, Technical and Societal Aspects

Course Number: ASE 303
Instructor: Backus, Charles E. (602)965-3421
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer

Solar Cells

Course Number: EEE 438
Instructor: Sirkis, Murray D. (602)965-6133
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Photoconversion; Photovoltaics and Solar Cells

NORTHERN ARIZONA UNIVERSITY

Flagstaff, AZ 86001
(602)523-9011 (001082)

Curriculum with Solar Study

Mechanical Engineering Technology *

Degree: Bachelor
Engineering Technology ENG
Department: Engineering and Technology
Contact: Hepworth, H. Kent
(602)523-5251

Program and Curriculum Related Courses

Direct Energy Conversion *

Course Number: EGR 402
Instructor: Hepworth, H. Kent
(602)523-5251
Department: Engineering and Technology
Program: Mechanical Engineering Technology *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Materials; Photovoltaics and Solar Cells

Solar Energy Technology *

Course Number: EGR 451
Instructor: Kuzma, Dennis C.
(602)523-5251
Department: Engineering and Technology
Program: Mechanical Engineering Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design

Solar Engineering Analysis and Design *

Course Number: EGR 451
Instructor: Kuzma, Dennis C.
(602)523-5251
Department: Engineering and Technology
Program: Mechanical Engineering Technology *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF ARIZONA

Tucson, AZ 85721
(602)884-2751 (001083)

Tuition (Full Time):

Resident: $275.00 Non Resident: $775.00

Curriculum with Solar Study

Energy Systems Engineering

Degree: Master
Aerospace/Mechanical Eng./ Electrical Eng./Nuclear Eng./ Chemical Eng.
Department: Engineering; Mines
Contact: Carlile, R. N.
(602)626-1672

Program and Curriculum Related Courses

Advanced Solar Engineering

Course Number: 567
Instructor: Fazzolare, Rocco
(602)626-2487
Department: Engineering
Program: Energy Systems Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Course Fee: Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

Current Topics in Energy and Power

Course Number: 466
Instructor: Carlile, R. N.
(602)626-1672
Department: Engineering, Mines
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Offered: Evening
Prerequisites: No

Solar Energy Engineering

Course Number: 467
Instructor: Rogers, W. L.
(602)626-2159
Department: Engineering, Mines
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Solar Related Courses

Architectural Aspects of Urban Settlements

Course Number: ARCH 454
Instructor: Der Boghosian, Harry
(602)626-3134
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00
Prerequisites: Yes

Architecture and the Arid Region

Course Number: ARCH 496
Instructor: Sobin, Harris
(602)626-3134
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $60.00
Prerequisites: No

Solar Utilization in the Built Environment

Course Number: ARCH 460
Instructor: Medlin, Larry
(602)626-3134
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $90.00
Prerequisites: No

Solar, Wind, Biomass Energy Utilization

Course Number: 325
Instructor: Larson, D. L.
(602)626-3463
William, D. W.
Department: Soils, Water and Engineerin
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day
Course Fee: Resident: $60.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Junior and Community Colleges

CENTRAL ARIZONA COLLEGE

P O Box 97
Winkleman, AZ 85292
(602)356-7864 (060042)

Tuition (Full Time):

Resident: $0.00 Non Resident: $648.00

Solar Related Courses

Solar Heating

Instructor: Johnson, Glen F.
(602)356-7864 EXT.51
Department: Building Trades, Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Evening
Course Fee: Resident: $0.00
Non Resident: $54.00
Prerequisites: No

COCHISE COLLEGE

Douglas, AZ 85607
(602)364-7943 (001072)

Solar Related Courses

Solar Energy Systems *

Course Number: TI025
Instructor: Elkins, Bob
(602)458-7110
Department: Technology

Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

GLENDALE COMMUNITY COLLEGE

6000 West Olive Avenue
Glendale, AZ 85302
(602)934-2211 (001076)

Tuition (Full Time):

Resident: $45.00 Non Resident: $45.00

Solar Related Courses

Build-It-Yourself Solar Water Heating
Course Number: G 220 226
Instructor: Pittenger
(602)966-5488
Marinello
Department: Continuing Education
Student Level: Layperson
Contact Hours: 8.0
Classroom: 2.0
Workshop: 6.0
Offered: Weekend
Course Fee: Resident: $45.00
Non Resident: $45.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Law/Legislation; Solar Systems Installation/Maintenance

Solar Energy: A Consumer Guide
Course Number: G 192
Instructor: Stutzman
Yamamoto
Department: Continuing Education
Student Level: Layperson
Duration: No. of weeks: 13.0
Hrs. per week: 2.0
Contact Hours: 26.0
Classroom: 20.0
Workshop: 6.0
Offered: Weekend
Course Fee: Resident: $18.00
Non Resident: $18.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis

MARICOPA TECHNICAL COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $50.00 Non Resident: $870.00

Solar Technical Training

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

Program and Curriculum Related Courses

Solar I, Introduction to Solar Energy
Course Number: RF 119
Instructor: Carrico, Keith E.
(602)275-8500 EXT.445
Department: Refrigeration
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

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

Solar III, Solar Technician Troubleshooting and Evaluation
Course Number: RF-220
Instructor: Carrico, Keith E.
(602)275-8500 EXT.445
Department: Refrigeration
Program: Solar Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0
Hrs. per week: 0.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Non Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

MOHAVE COUNTY COMMUNITY COLLEGE

1971 Jagerson Avenue
Kingman, AZ 86401
(602)757-4331 (011864)

Tuition (Full Time):

Resident: $60.00 Non Resident: $612.00

Solar Related Courses

Introduction to Solar Energy
Course Number: PHY 091
Instructor: Byfield, Hal
(602)757-4331
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $2.00
Non Resident: $25.00
Prerequisites: No

Solar Energy and Survival
Course Number: PHY 290
Instructor: Byfield, H.
(602)757-4331 EXT.55
Department: Vocational
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $2.00
Non Resident: $25.00

Special Project: Technology of Solar Systems
Course Number: PHY 290
Instructor: Byfield, Hal
(602)757-4331
Department: Physics
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0

NORTHLAND PIONEER COLLEGE

Holbrook, AZ 86025
(602)524-6111 (011862)

Tuition (Full Time):

Resident: $40.00 Non Resident: $600.00

Solar Related Courses

Solar and Alternate Energy Sources
Course Number: PHY 180
Instructor: Plucker, Frank
(602)289-5082
Department: Physics
Student Level: College Freshman/Sophomore; Layperson

Academic Credits: 3.0
Duration: No. of weeks: 17.0
Hrs. per week: 3.0
Contact Hours: 51.0
Classroom: 40.0
Lab: 11.0
Offered: Evening
Course Fee: Resident: $12.00
Non Resident: $180.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Distributed Solar Power Systems

RIO SALADO COMMUNITY COLLEGE

10451 Palmera Dr.
Sun City, AZ 85373
(602)974-9939 (090010)

Solar Related Courses

Solar Energy *
Course Number: PH 101-9863
Instructor: Ploeser, William J.
(602)077-7615
Department: Physics
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Topics Covered Extensively: Introduction to Solar Energy; Plumbing Techniques; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water

SCOTTSDALE COMMUNITY COLLEGE

9000 East Chaparral Road
Scottsdale, AZ 85253
(602)947-5401 (008304)

Solar Related Courses

Introduction to Solar Energy Systems
Course Number: GT 119
Instructor: Graham, Robert
(602)968-8341
Department: Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Evening
Topics Covered Extensively: Introduction to Solar Energy

YAVAPAI COLLEGE

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

Solar Curriculum

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

Program and Curriculum Related Courses

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

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

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

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

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

Solar Heating, Passive and Hybrid Systems *
Course Number: PHS 102
Instructor: Frerking, Mike
Department: Science
Program: Solar Energy Technology *
Academic Credits: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

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

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

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

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

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

Solar Laboratory 124 *
Course Number: PHS 124

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

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

Vocational / Technical Schools

MOUNTAIN STATES TECHNICAL INSTITUTE

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

Tuition (Full Time):
Resident: $2,695.00

Solar Technical Training

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

Program and Curriculum Related Courses

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

UNIVERSAL TECHNICAL INSTITUTE

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

Tuition (Full Time):
Resident: $3,465.00 Non Resident: $3,465.00

Solar Technical Training

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

Program and Curriculum Related Courses

Refrigeration, Air Conditioning, Heating, and Solar Energy
Course Number: 401
Instructor: Gregoire, Joseph (602)264-4164 EXT.34
Hering, Paul
Department: Refrigeration
Program: Refrigeration, Air Conditioning, Heating, and Solar Energy
Student Level: Skilled Labor
Duration: No. of weeks: 33.0; Hrs. per week: 30.0
Contact Hours: 990.0
Classroom: 396.0
Workshop: 495.0
Lab: 99.0
Offered: Day; Evening
Course Fee: Resident: $3,405.00; Non Resident: $3,465.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Other Educational Institutions and Organizations

ARIZONA SOLAR ADOBE WORKSHOP

Star Route 1 East
Chino Valley, AZ 86323
(602)636-2988 (091020)

Solar Related Courses

Solar, Adobe Workshop
Course Number: 099
Instructor: Dickens, Nigel (602)636-2988
Department: Science, Math
Student Level: All Levels
Academic Credits: 1.0 (Nine Terms Per Year)
C.E.U.'s: 1.0
Duration: No. of weeks: 5.0; Hrs. per week: 5.0
Contact Hours: 25.0
Classroom: 10.0
Job: 15.0
Offered: Weekend
Course Fee: Resident: $30.00; Non Resident: $30.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Passive Solar Systems; Solar Systems Design

Arkansas

Colleges and Universities

JOHN BROWN UNIVERSITY

Siloam Springs, AR 72761
(501)524-3131 (001100)

Tuition (Full Time):
Resident: $1,900.00 Non Resident: $1,900.00

Solar Related Courses

Energy Alternatives

Course Number: ENGR 374
Instructor: Pearson, J. V.
(501)524-3131 EXT.223
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $240.00
Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

UNIVERSITY OF ARKANSAS AT LITTLE ROCK

33rd and University Avenue
Little Rock, AR 72204
(501)569-3000 (001101)

Tuition (Full Time):
Resident: $230.00 Non Resident: $545.00

Curriculum with Solar Study

Mechanical Engineering Technology

Degree: Bachelor
Mechanical Engineering Technology
Department: Engineering
Contact: Cromwell, Robert
(501)569-3364

Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation

Program and Curriculum Related Courses

Energy Conservation Techniques

Course Number: ET 3305
Instructor: Tschumi, Pete
(501)569-3364
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $69.00
Non Resident: $163.50
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

Solar Energy Systems

Course Number: ET 3306
Instructor: Tschumi, Pete
(501)569-3364
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $69.00
Non Resident: $163.50
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy Technology

Course Number: ET 2315
Instructor: Tschumi, Pete
(501)569-3364
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $69.00
Non Resident: $163.50
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Solar Energy Policy Development

UNIVERSITY OF ARKANSAS MAIN CAMPUS

Fayetteville, AR 72701
(501)575-2000 (001108)

Solar Related Courses

Introduction to Solar Energy

Course Number: 4303
Instructor: Gilbrech, Donald A.
(501)575-3054
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

UNIVERSITY OF CENTRAL ARKANSAS

Conway, AR 72032
(501)329-2931 (001092)

Tuition (Full Time):
Resident: $230.00 Non Resident: $520.00

Solar Technical Training

Workshop

Degree: Certificate
Department: Vocational Education; Industrial Education; Physics
Contact: Feck
(501)329-2931 EXT.371
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Workshop

Instructor: Jorden
(501)329-2931 EXT.241
Pray
Hodiway
Department: Industrial Education, Physics
Program: Workshop
Student Level: All Levels; Skilled Labor; Layperson
Duration: No. of weeks: 1.0
Hrs. per week: 0.0
Contact Hours: 12.0
Classroom: 8.0
Lab: 4.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Junior and Community Colleges

MISSISSIPPI COUNTY COMMUNITY COLLEGE

P O Box 1109
Blytheville, AR 72315
(501)762-1020 (012880)

Solar Curriculum

Solar Technology

Degree: Associate
Solar Energy Technology, Photovoltaics
Department: Applied Science
Contact: Benson, Christopher M.
(501)762-1020 EXT.74

Program Training: Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Cooperative Education

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

Electronics, Instrumentation, and Electrical Storage

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

Heating and Air Conditioning Fundamentals

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

Solar Technology I

Course Number: SOLR 58003
Instructor: Benson, C. M. (501)762-1020 EXT.74
Department: Solar Technology
Program: Solar Technology
Student Level: College Freshman/ Sophomore; Managerial; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $36.00 Non Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Technology II

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

Solar Technology III

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

Solar Technology Lab I

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

Solar Technology Lab II

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

Solar Technology Lab III

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

Survey of Energy Sources

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

California

Colleges and Universities

ANTIOCH UNIVERSITY WEST

650 Pine Street
San Francisco, CA 94108 (090520)

Solar Curriculum

Solar Energy and Design
Degree: Master, Bachelor
Department: Environmental Studies
Contact: Nelson, Lynn
Daar, Sheila
Program Training: Architecture-Solar Specialization

Program and Curriculum Related Courses

Attached Solar Greenhouse - Design, Construction, Operation
Instructor: Habitat Center
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 1.0 (Quarter)
Contact Hours: 18.0
Offered: Day; Evening; Weekend
Prerequisites: No
Topics Covered Extensively: Greenhouse Techniques; Passive Solar Systems; Solar Home Construction

Design Studio
Instructor: Nelson, Lynn
Peters, Charles
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems

Instrumentation and Monitoring
Instructor: Nelson, Lynn
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Greenhouse Techniques

Passive Solar Adobe Construction
Instructor: Habitat Center
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 7.5
Contact Hours: 75.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction

Passive Solar Design Methodology
Instructor: Nelson, Lynn
Program: Solar Energy and Design
Student Level: Layperson; College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design

Passive Solar Home Construction
Instructor: Habitat Center
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction

Passive Solar Home Design, Practicum
Instructor: Nelson, Lynn
Department: Environmental Studies
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems

Remodeling and Solarizing Existing Houses
Instructor: Habitat Center
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 15.0
Hrs. per week: 7.5
Contact Hours: 113.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction

Seminar with David Wright
Instructor: Wright, David
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 1.0 (Quarter)
Contact Hours: 0.0
Offered: Day; Weekend
Course Fee: Resident: $95.00
Non Resident: $95.00
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems

Solar Energy and Design Lecture Series
Instructor: Nelson, Lynn
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Contact Hours: 15.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems

Solar Habitat Design
Instructor: Nelson, Lynn
Daar, Sheila
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Prerequisites: No
Topics Covered Extensively: Bioconversion; Passive Solar Systems; Solar Domestic Hot Water; Solar Systems Design

Structural Analysis and Drafting
Instructor: Peters, Charles
Program: Solar Energy and Design
Student Level: College Junior/Senior; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Systems Design

CALIFORNIA INSTITUTE OF TECHNOLOGY

1201 East California Street
Pasadena, CA 91125
(213)795-6811 (001131)

Tuition (Full Time):

Resident: $4,300.00 Non Resident: $4,300.00

Solar Related Courses

Principles of Energy Conversion
Course Number: ME 102 abc
Instructor: Rannie, W. D.
(213)795-6811 EXT.1783
Department: Engineering
Student Level: College Graduate
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 30.0
Hrs. per week: 3.0
Contact Hours: 90.0
Classroom: 90.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

CALIFORNIA POLYTECHNIC STATE UNIVERSITY AT SAN LUIS OBISPO

San Luis Obispo, CA 93407
(805)546-0111 (001143)

Tuition (Full Time):

Resident: $100.00 Non Resident: $675.00

Curriculum with Solar Study

Solar Environmental Systems
Degree: Bachelor
Environmental Engineering
Department: Environmental Engineering
Contact: Holtz, Walter E.
(805)546-2589
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Energy
Course Number: ENVE 221
Instructor: Clark, W. E.
(805)546-1248
Department: Environmental Engineering
Program: Solar Environmental Systems
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day

Course Fee: Resident: $75.00
Non Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Solar Energy Engineering
Course Number: ENVE 322
Instructor: Niles, Philip W.
(805)546-2643
Department: Environmental Engineering
Program: Solar Environmental Systems
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy Laboratory
Course Number: ENVE 368
Instructor: Niles, Philip W.
(805)546-2643
Department: Environmental Engineering
Program: Solar Environmental Systems
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Systems Testing/Evaluation

Solar Energy Systems Analysis
Course Number: ENVE 366
Instructor: Niles, P. W.
(805)546-2643
Department: Environmental Engineering
Program: Solar Environmental Systems
Student Level: College Junior/Senior
Academic Credits: 5.0 (Quarter)
C.E.U.'s: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Course Fee: Resident: $75.00
Non Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Passive Solar Systems; Solar Heating; Solar Systems Testing/Evaluation

Solar Energy Systems Design
Course Number: ENVE 367
Instructor: Niles, P. W.
(805)546-2643
Department: Environmental Engineering
Program: Solar Environmental Systems
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 7.0
Contact Hours: 70.0
Classroom: 10.0
Lab: 60.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Introduction to Environmental Design Science
Course Number: EDES 221
Instructor: Pohl, Jens G.
(805)546-2841
Department: Architecture
Student Level: All Levels
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $63.00
Non Resident: $127.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

CALIFORNIA STATE COLLEGE AT SAN BERNARDINO

5500 State College Parkway
San Bernardino, CA 92407
(714)887-7201 (001142)

Tuition (Full Time):
Resident: $83.00 Non Resident: $683.00

Solar Related Courses

Energy and Its Utilization by Man
Course Number: NS 432
Instructor: Mantei, K.
(714)887-7344
Department: Natural Sciences
Student Level: College Junior/Senior
Academic Credits: 5.0 (Quarter)
C.E.U.'s: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 32.0
Field Trips: 8.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $53.00
Non Resident: $653.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

CALIFORNIA STATE POLYTECHNICAL UNIVERSITY AT POMONA

Pomona, CA 91768
(714)598-4726 (001144)

Solar Related Courses

Solar Energy Systems *
Course Number: EGR 590
Instructor: Biddle, John R.
(714)598-0239
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Photovoltaics and Solar Cells; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Thermal Engineering *
Course Number: ME 407
Instructor: Biddle, John R.
(714)598-0239
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design

CALIFORNIA STATE UNIVERSITY AT CHICO

Chico, CA 95929
(916)895-5011 (001148)

Tuition (Full Time):
Resident: $35.00

Solar Related Courses

Alternate Energy Systems
Course Number: 109
Instructor: O'Bannon, James E.
(916)343-2975
Department: Industry and Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 3.0
Hrs. per week: 17.0
Contact Hours: 51.0
Classroom: 36.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $3.00
Non Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Wind Energy Conversion Systems

CALIFORNIA STATE UNIVERSITY AT FRESNO

Shaw Avenue at Cedar
Fresno, CA 93740
(209)487-9011 (001147)

Solar Related Courses

Solar Energy
Instructor: Russell, Kenneth
Department: Chemistry
Academic Credits: 2.0 (Semester)
Topics Covered Extensively: Components-Solar; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design

CALIFORNIA STATE UNIVERSITY AT FULLERTON

800 North State College Boulevard
Fullerton, CA 92634 (001137)

Tuition (Full Time):
Resident: $111.00 Non Resident: $800.00

Solar Related Courses

Solar Energy Applications
Course Number: E-472
Instructor: Turner, Robert H. (213)248-3810
Department: Mechanical Engineering
Student Level: College Graduate; College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 2.5
Contact Hours: 37.5
Classroom: 37.5
Offered: Evening
Course Fee: Resident: $93.00; Non Resident: $180.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

CALIFORNIA STATE UNIVERSITY AT HAYWARD

Hayward, CA 94542
(415)881-3000 (001138)

Solar Related Courses

Energy and Environment *
Course Number: PHY 3650
Instructor: Good, R. H. (415)881-3401
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes

Environmental Education Using School and Community Resources
Course Number: TED 6415
Instructor: Railton, Esther (415)881-3027
Department: Teacher Education
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Evening; Weekend
Course Fee: Resident: $55.00
Prerequisites: No

Environmental Law *
Course Number: 3460
Instructor: Smith, J. Malcolm (415)881-3221
Department: Political Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: No
Topics Covered Extensively: Solar Law/Legislation

Geography of Energy Resources *
Course Number: 4320
Instructor: Pagenhart, Thomas H. (415)881-3159
Department: Geography
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Energy Policy Development; Wind Energy Conversion Systems

Public Policy and the Environment *
Course Number: 4171
Instructor: Lewis, Sherman (415)881-3221
Department: Political Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Energy Policy Development

CALIFORNIA STATE UNIVERSITY AT LONG BEACH

1250 Bellflower Boulevard
Long Beach, CA 90840
(213)498-4121 (001139)

Tuition (Full Time):
Resident: $103.00 Non Resident: $1,003.00

Curriculum with Solar Study

Mechanical Engineering
Degree: Master, Bachelor, Certificate Mechanical Engineering
Department: Mechanical Engineering
Contact: Unt, Hillar (213)498-4407
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Selection and Conversion
Course Number: ME 411
Instructor: Dyer, J. L. (213)498-5132
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $85.00; Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Hybrid Systems; Ocean Systems; Thermochemical Conversion; Wind Energy Conversion Systems

Solar Engineering
Course Number: ME 410
Instructor: Sunau, S. (213)498-5136
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $85.00; Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

CALIFORNIA STATE UNIVERSITY AT NORTHRIDGE

18111 Nordhoff Street
Northridge, CA 91330
(213)885-1200 (001153)

Tuition (Full Time):
Resident: $95.00 Non Resident: $995.00

Solar Related Courses

Solar Energy for Homeowners
Instructor: Dixon, Gregg W (213)885-2187
Department: Mechanical Engineering, Chemical Engineering
Student Level: All Levels; Layperson
Duration: No. of weeks: 6.0; Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 18.0
Offered: Evening; Weekend
Course Fee: Resident: $37.00; Non Resident: $37.00
Prerequisites: No
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating

Solar Energy Engineering
Course Number: 494 SE/SEL
Instructor: Dixon, Gregg W. (213)885-2187
Department: Mechanical Engineering, Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 28.0
Lab: 28.0
Offered: Evening
Course Fee: Resident: $80.00; Non Resident: $260.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

HARVEY MUDD COLLEGE

Claremont, CA 91711
(714)626-8511 (001171)

Solar Related Courses

Freshman Projects *
Course Number: FY 4
Instructor: Wolf, Robert
(714)621-8000
Department: Freshman Division
Student Level: College Freshman/Sophomore
Academic Credits: 1.0
Duration: No. of weeks: 7.0
Hrs. per week: 3.0
Contact Hours: 21.0
Classroom: 21.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Heat and Energy Transfer

HUMBOLDT STATE UNIVERSITY

Arcata, CA 95521
(707)826-3011 (001149)

Tuition (Full Time):

Resident: $65.00

Solar Related Courses

Solar Thermal Processes
Course Number: ENG 184
Instructor: Borgers, T. R.
(707)826-3135
Gearhart, Bob
Department: Chemistry, Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Independent Study: 20.0
Offered: Day
Course Fee: Non Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design

LA VERNE COLLEGE

La Verne, CA 91750
(714)593-3511 (001216)

Solar Related Courses

Energy Colloquium *
Instructor: Green, Richard H.
(714)593-3511
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Energy Policy Development; Solar Law/Legislation; Wind Energy Conversion Systems

Energy Options *
Instructor: Arnold, George
(714)593-7792
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

LOMA LINDA UNIVERSITY

Loma Linda, CA 92354
(714)796-7311 (001218)

Solar Related Courses

Practical Solar Energy *
Course Number: INDS 283
Instructor: Walls, Art
(714)785-2218
Department: Industrial Studies
Academic Credits: 4.0
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Components-Solar; Solar Systems Design

LOYOLA MARYMOUNT UNIVERSITY

7101 West 80th Street
Los Angeles, CA 90045
*213)642-2700 (011649)

Tuition (Full Time):

Resident: $1,625.00 Non Resident: $1,625.00

Solar Related Courses

Thermal Elements of Design
Course Number: ME 571
Instructor: Callinan, J. P.
(213)642-2827
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Offered: Evening
Course Fee: Resident: $332.00
Non Resident: $332.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Thermochemical Conversion

NEW COLLEGE OF CALIFORNIA

777 Valencia Street
San Francisco, CA 94110
(415)626-1694 (010831)

Solar Related Courses

The Economics of Energy in World Consciousness
Instructor: Beorse, Shamcher
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 12.0
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Solar Energy Policy Development; Solar Marketing/Economic Analysis

NORTHROP UNIVERSITY

Inglewood, CA 90306
(213)776-3410 (001248)

Curriculum with Solar Study

Energy Systems Engineering
Degree: Bachelor
Science
Department: Energy Systems
Contact: Pelka, David G.
(213)641-3470
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Energy Conservation
Course Number: ES 431
Instructor: Eytal, L. S.
(213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Energy Control Systems
Course Number: ES 436
Instructor: Pelka, D. G.
(213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Solar Systems Testing/Evaluation

Energy Systems Design I
Course Number: ES 471
Instructor: Jacowitz, Lawrence
(213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Solar Systems Design; Solar Systems Testing/Evaluation

Energy Policy
Course Number: ES 421
Instructor: Pelka, D. G.
(213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Solar Energy Policy Development; Solar Law/Legislation

Energy Systems Design II
Course Number: ES 472
Instructor: Jacowitz, Lawrence
(213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0

Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Solar Systems Design; Solar Systems Testing/ Evaluation

Energy Systems Design III
Course Number: ES 473
Instructor: Jacowitz, Lawrence (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Solar Systems Design; Solar Systems Testing/ Evaluation

Environmental Systems
Course Number: ES 352
Instructor: Pelka, D. G. (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Appropriate Technology

Law and Energy Applications
Course Number: ES 433
Instructor: Pelka, D. G. (213)641-3470
Department: Law School
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Alternate Energy Sources; Solar Law/Legislation

Photovoltaic Technology
Course Number: ES 311
Instructor: Pelka, D. G. (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells; Distributed Solar Power Systems

Solar Energy Systems I
Course Number: ES 321
Instructor: Jacowitz, Lawrence (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design; Solar Systems Testing/ Evaluation; Solar Domestic Hot Water; Solar Heating

Solar Energy Systems II
Course Number: ES 401
Instructor: Jacowitz, Lawrence (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Testing/Evaluation; Centralized Solar Power Systems; Distributed Solar Power Systems

Wind Machine Design and Operation
Course Number: ES 441
Instructor: Lord, Paul (213)641-3470
Department: Energy Systems Engineering
Program: Energy Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Wind Energy Conversion Systems

PITZER COLLEGE

Claremont, CA 91711
(714)626-8511 (001172)

Tuition (Full Time):

Resident: $2,418.00 Non Resident: $2,418.00

Solar Related Courses

Solar Colloquium
Course Number: 177a, b
Instructor: Hertel, Carl (714)621-8000 EXT.3176
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.3
Contact Hours: 50.0
Classroom: 15.0
Seminar: 15.0
Workshop: 15.0
Offered: Evening
Course Fee: Resident: $580.00
Non Resident: $580.00
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems; Introduction to Solar Energy; Solar Energy Policy Development; Solar Heating

SAN DIEGO STATE UNIVERSITY

San Diego, CA 92182
(714)286-5000 (001151)

Tuition (Full Time):

Resident: $30.00 Non Resident: $951.00

Solar Related Courses

Energy: Issues and Ideas
Course Number: E-360
Instructor: Craig, George T. (714)286-6067
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $81.00
Non Resident: $252.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Introduction to Solar Energy; Wind Energy Conversion Systems

Solar Energy
Course Number: NS 496
Instructor: Thompson, W. (714)286-6382
Department: Natural Science
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 41.0
Lab: 4.0
Offered: Day
Course Fee: Resident: $81.00
Non Resident: $171.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy: Materials; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Solar Domestic Hot Water; Solar Heating

SAN JOSE STATE UNIVERSITY

San Jose, CA 95192
(408)277-2000 (001155)

Curriculum with Solar Study

Solar Design Engineering *
Degree: Bachelor Environmental Studies, Solar Emphasis
Department: Environmental Studies
Contact: Aitken, Donald (408)277-3107
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Energy Theory *
Course Number: ES 116
Course Number: (408)277-3107
Department: Environmental Studies
Program: Solar Design Engineering *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

Solar Energy Workshop *
Course Number: 186
Course Number: (408)277-3107
Department: Environmental Studies
Program: Solar Design Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 9.0
Contact Hours: 135.0
Classroom: 45.0
Independent Study: 90.0

SONOMA STATE UNIVERSITY

1801 East Cotati Ave.
Rohnert Park, CA 94928
(707)664-2880 (001156)

Tuition (Full Time):

Resident: $95.00

Curriculum with Solar Study

Energy Study Plan
Degree: Bachelor
Environmental Studies
Department: Environmental Studies
Contact: Irving, Roy
Norwick, Steve
(707)664-2306
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/ Policy; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Advanced Solar Energy
Course Number: ENSP 437
Instructor: Irving, Roy
(707)664-2577
Department: Environmental Studies
Program: Energy Study Plan
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $75.00
Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Passive Solar Systems; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design

Fundamentals of Energy Use
Course Number: ENSP 334
Instructor: Irving, Roy
(707)664-2577
Department: Environmental Studies
Program: Energy Study Plan
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 24.0
Seminar: 24.0
Offered: Day; Evening
Course Fee: Resident: $75.00
Non Resident: $165.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Senior Projects
Course Number: ENSP 490
Instructor: Norwich, Stephen
(707)664-2418
Department: Environmental Studies
Program: Energy Study Plan
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 9.0
Hrs. per week: 16.0
Contact Hours: 144.0
Independent Study: 144.0
Course Fee: Resident: $75.00
Non Resident: $165.00
Prerequisites: Yes

Solar Energy, Direct Uses
Course Number: ENSP 337
Instructor: Irving, Roy
(707)664-2577
Department: Environmental Studies
Program: Energy Study Plan
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $75.00
Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

STANFORD UNIVERSITY

Stanford, CA 94305
(415)497-2300 (001305)

Solar Related Courses

Planning for Decentralized Energy Systems
Course Number: CE 177
Instructor: Masters, Gil
(415)497-3658
Department: Civil Engineering
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Distributed Solar Power Systems; Solar Energy Policy Development; Solar Law/ Legislation

Small Scale Energy Systems
Course Number: CE 176/CE 219
Instructor: Masters, Gil
(415)497-3658
Department: Civil Engineering
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 32.0
Classroom: 30.0
Lab: 2.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Energy
Course Number: ME 275
Instructor: Ferziger
(415)497-3148
Whitehouse
Department: Mechanical Engineering
Student Level: College Graduate
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation; Thermochemical Conversion

UNIVERSITY OF CALIFORNIA AT BERKELEY

Berkeley, CA 94720
(415)642-6000 (001312)

Solar Curriculum

*Solar Engineering **
Degree: Bachelor
Science - Electrical Engineering and Computer Science
Department: Electrical Eng. and Computer Science
Contact: Birdsall, Charles K.
(415)642-4015
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

*Approaching a Solar Society **
Course Number: E298-4
Instructor: Berman, S.
(415)642-4015
Birdsall, C. K.
Department: Engineering
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 20.0
Hrs. per week: 3.0
Contact Hours: 60.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Solar Energy Policy Development

*Direct Energy Conversion **
Course Number: EECS290G
Instructor: Hu, Chenming
(415)642-3393
Department: Electrical Eng. and Computer Science
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

*Elementary Solar Electric Systems **
Course Number: EECS 165
Instructor: Smith, O. J. M.
(415)642-7591
Department: Electrical Eng. and Computer Science
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

*Energy and Power **
Course Number: E160
Instructor: Lieberman, M. A.
(415)642-1030
Department: Engineering
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes

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

Energy Conversion Principles *

Course Number: ME 145
Instructor: Daily, John W. (415)642-0238
Department: Mechanical Engineering
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Photovoltaics and Solar Cells

Physics of Solar Radiation, A *

Course Number: 180 A
Instructor: Portis, Alan M. (415)642-3697
Department: Physics
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Systems Design

Physics of Solar Radiation, B *

Course Number: 180 B
Instructor: Portis, Alan M. (415)642-3697
Department: Physics
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Systems Design

Solar Electric System, 166 *

Course Number: EECS 166
Instructor: Smith, O. J. M. (415)642-7591
Department: Electrical Eng. and Computer Science
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Marketing/Economic Analysis; Solar Systems Design; Wind Energy Conversion Systems

Solar Electric Systems, 215B *

Course Number: EECS 215B
Instructor: Smith, O. J. M. (415)642-7591
Department: Electrical Eng. and Computer Science
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Electric Systems, 215A *

Course Number: EECS 215A
Instructor: Smith, O. J. M. (415)642-7591
Department: Electrical Eng. and Computer Science
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Energy *

Course Number: E 161
Instructor: Merriam, M. F. (415)642-3664
Department: Engineering
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Wind Energy Conversion Systems

Solar Energy Materials *

Course Number: MSME 290G
Instructor: Merriam, M. F. (415)642-3664
Department: Material Science and Mineral Engineering
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 2.0
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Prerequisites: Yes
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

Solar Energy Seminar *

Course Number: E298-2
Instructor: Merriam, M. F. (415)642-3664
Department: Engineering
Program: Solar Engineering *
Student Level: College Junior/Senior
Academic Credits: 1.0
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/Economic Analysis

Thermal Radiation *

Course Number: ME 253
Instructor: Daily, John W. (415)642-0238
Department: Mechanical Engineering
Program: Solar Engineering *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfe

Solar Related Courses

Active Solar Systems

Instructor: Heinemann, Klaus (415)642-4811; Parman, John
Department: Extension
Student Level: Professional
C.E.U.'s: 1.4
Contact Hours: 14.0
Seminar: 14.0
Offered: Weekend
Course Fee: Resident: $125.00; Non Resident: $125.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis

Solar Cells - Basic to Advanced Systems

Instructor: Barry, Helen (415)642-4151
Department: Continuing Education in Engineering
Student Level: Professional
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Classroom: 8.0
Offered: Day
Course Fee: Resident: $150.00; Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

Solar Energy for Buildings, Homes, and Pools

Instructor: Pike, Nanette (415)642-4151
Department: Continuing Education in Engineering
Student Level: Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 1.0; Hrs. per week: 16.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Day; Weekend
Course Fee: Resident: $140.00; Non Resident: $140.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

Swimming Pools: Energy Conservation and Solar Heating

Instructor: Pike, Nanette (415)642-4151
Department: Continuing Education in Engineering
Student Level: Managerial; Professional; Skilled Labor; Layperson
Contact Hours: 8.0
Classroom: 8.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Solar Swimming Pool Heating

Wind Energy

Instructor: Pike, Nanette (415)642-4151
Department: Continuing Education in Engineering
Student Level: Managerial; Professional; Layperson
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0

Classroom: 8.0
Offered: Day; Weekend
Course Fee: Resident: $60.00
Non Resident: $60.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, CA 95616
(916)752-1011 (001313)

Tuition (Full Time):

Resident: $242.50 Non Resident: $877.50

Curriculum with Solar Study

Graduate Solar Energy
Degree: Master
Atmospheric Sciences
Department: Land, Air and Water Resources
Contact: Flocchini, Robert
(916)752-1450
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Radiation Instrumentation and Measurement
Course Number: 128
Instructor: Flocchini, R. G.
(916)752-7097
Department: Atmospheric Science
Program: Graduate Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $62.00
Non Resident: $62.00
Prerequisites: Yes

Solar and Related Energy Sources
Course Number: 203
Instructor: Flocchini, R. G.
(916)752-7097
Department: Resource Science
Program: Graduate Solar Energy
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $62.00
Non Resident: $62.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Solar Energy Applications
Course Number: 103
Instructor: Flocchini, R. G.
(916)752-7097
Department: Land, Air and Water Resources
Program: Graduate Solar Energy
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $62.00
Non Resident: $62.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Wind Energy Conversion Systems

Solar Related Courses

Advanced Energy Technology
Course Number: Engineering 162
Instructor: Craig, Paul
(916)752-0360
Department: Applied Science
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $70.00
Non Resident: $70.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Distributed Solar Power Systems; Energy Storage Systems; Solar Energy Policy Development

Energy, Society and the Environment
Course Number: E 160
Instructor: Baughn, James W.
(916)752-3886
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Thermal Radiation
Course Number: ME 205
Instructor: Brandt, Harry
(916)752-0588
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Systems Design

UNIVERSITY OF CALIFORNIA AT LOS ANGELES

Los Angeles, CA 90024
(213)825-4321 (001315)

Curriculum with Solar Study

*Architecture and Urban Design **
Degree: Master
Architecture and Urban Planning
Department: Architecture; Urban Planning
Contact: Moore, Charles
(213)825-8959
Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

*Introduction to Energy Conserving Design I **
Course Number: 446,403
Instructor: Schoen, Richard
(213)825-1345
Department: Arch. Urban Planning and Design
Program: Architecture and Urban Design *
Student Level: College Graduate
Academic Credits: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 1.0
Contact Hours: 10.0
Classroom: 5.0
Lab: 5.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

*Introduction to Energy Conserving Design II **
Course Number: 446,403
Instructor: Schoen, Richard
(213)825-1345
Department: Arch. Urban Planning and Design
Program: Architecture and Urban Design *
Student Level: College Graduate
Academic Credits: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 1.0
Contact Hours: 10.0
Classroom: 5.0
Lab: 5.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

*Introduction to Energy Conserving Design III **
Course Number: 446,403
Instructor: Schoen, Richard
(213)825-1345
Department: Arch. Urban Planning and Design
Program: Architecture and Urban Design *
Student Level: College Graduate
Academic Credits: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 1.0
Contact Hours: 10.0
Classroom: 5.0
Lab: 5.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Heating; Solar Cooling

Curriculum with Solar Study

*Energy Conserving Designs Elective Sequence **
Degree: Master
Architecture and Urban Planning
Department: Architecture; Urban Planning
Contact: Moore, Charles
(213)825-8950
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Building Climatology *

Course Number: 442
Instructor: Givoni, Baruch (213)825-7370
Milne, Murray
Department: Architecture/Urban Design
Program: Energy Conserving Designs Elective Sequence *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design; Solar Heating; Solar Cooling

Heat and the Thermal Environment *

Course Number: 443
Instructor: Givoni, Baruch (213)825-2769
Department: Architecture and Urban Planning
Program: Energy Conserving Designs Elective Sequence *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Passive Solar Systems; Solar Home Construction; Solar Systems Design; Solar Heating; Solar Cooling

Projects in Architecture: Computer Aided Design *

Course Number: 403G
Instructor: Milne, Murray (213)825-7370
Department: Architecture and Urban Planning
Program: Energy Conserving Designs Elective Sequence *
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Lab: 30.0
Topics Covered Extensively: Solar Systems Design; Solar Heating; Solar Cooling

Solar Related Courses

New Energy Technology *

Course Number: 134A
Instructor: Buchberg, H.
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer

Solar Energy Use and Control *

Course Number: 134B
Instructor: Buchberg, H. (213)825-5313
Department: Chemistry, Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Topics in Thermal Design *

Course Number: 234A
Instructor: Buchberg, H. (213)825-5313
Mills, A.
Department: Chemistry, Engineering
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Heat and Energy Transfer

UNIVERSITY OF CALIFORNIA AT RIVERSIDE

Riverside, CA 92521
(714)787-1012 (001316)

Solar Related Courses

California Solar Energy Tax Credit *

Course Number: 888.31
Instructor: Thiebaux, Brian (714)787-4101
Department: University Extension
Student Level: All Levels
Duration: No. of weeks: 1.0
Hrs. per week: 5.0
Contact Hours: 5.0
Classroom: 5.0

Designing a Standard Frame House for Solar Energy *

Course Number: 888.3
Instructor: Thiebaux, Brian (714)787-4101
Department: University Extension
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 3.0
Contact Hours: 3.0
Classroom: 3.0
Topics Covered Extensively: Solar Home Construction; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Energy: Its Impact on the United States Economy *

Course Number: X 421
Instructor: Thiebaux, Brian (714)787-4101
Department: University Extension
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Solar Marketing/Economic Analysis

Refitting Your Home to Save Water, Energy, and Money *

Instructor: Richter, Jean (714)787-4101
Department: University Extension
Student Level: All Levels
Duration: No. of weeks: 1.0
Hrs. per week: 9.0
Contact Hours: 9.0
Classroom: 9.0
Topics Covered Extensively: Solar Home Construction; Solar Domestic Hot Water; Solar Heating; Solar Cooling

UNIVERSITY OF CALIFORNIA AT SANTA BARBARA

Santa Barbara, CA 93106
(805)961-2311 (001320)

Tuition (Full Time):
Resident: $298.00 Non Resident: $933.00

Solar Related Courses

Solar Energy

Course Number: ES 105
Instructor: Manalis, Mel (805)961-3816
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Solar Cooling; Solar Energy Policy Development; Solar Heating; Wind Energy Conversion Systems

UNIVERSITY OF CALIFORNIA AT SANTA CRUZ

Santa Cruz, CA 95064
(408)429-0111 (001321)

Tuition (Full Time):
Resident: $255.50 Non Resident: $890.00

Solar Related Courses

Alternative Energy and Appropriate Technology

Course Number: 171
Instructor: Stayton, Robert (408)426-7828
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 8.0
Contact Hours: 80.0
Classroom: 40.0
Workshop: 40.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Wind Energy Conversion Systems

UNIVERSITY OF SAN FRANCISCO

San Francisco, CA 94117
(415)666-0600 (001325)

Curriculum with Solar Study

Environmental Planning and Management *

Degree: Master Environmental Planning and Management
Department: Continuing Education
Contact: Petulla, Joseph M. (415)666-6254
Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy; Mechanical/Electrical Contracting-Solar Specialization

Program and Curriculum Related Courses

Ecoscience *

Course Number: IDS 250

Instructor: Gruhn, Thomas (415)666-6208
Department: Continuing Education
Program: Environmental Planning and Management *
Student Level: College Graduate
cademic Credits: 4.0
uration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0
Prerequisites: Yes

Solar Related Courses

Energy for the Future
Course Number: 121
Instructor: Albergotti, J. C. (415)666-6144
Department: Science, Natural Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 4.0
Hrs. per week: 12.0
Contact Hours: 48.0
Classroom: 32.0
Field Trips: 16.0
Offered: Day
Course Fee: Resident: $210.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

UNIVERSITY OF SANTA CLARA

Santa Clara, CA 95053
(408)984-4242 (001326)

Solar Related Courses

Solar Energy for Heating and Cooling I
Course Number: ME 244
Instructor: Wedel, Roger (415)493-4411
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Course Fee: Resident: $144.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Heating

Solar Energy for Heating and Cooling II
Course Number: ME 247
Instructor: Wedel, Roger (415)493-4411
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Course Fee: Resident: $144.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Heating

UNIVERSITY OF SOUTHERN CALIFORNIA

Los Angeles, CA 90007
(213)741-2311 (001328)

Tuition (Full Time):
Resident: $2,400.00 Non Resident: $2,400.00

Solar Related Courses

Solar Energy Conversion Systems Design
Course Number: ME 432
Instructor: Lampert, Seymour (213)741-2944
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Offered: Day
Course Fee: Resident: $450.00
Non Resident: $450.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design

Junior and Community Colleges

AMERICAN RIVER COLLEGE

4700 College Oak Drive
Sacramento, CA 95841
(916)484-8011 (009552)

Tuition (Full Time):
Resident: $0.00

Solar Related Courses

Engineering
Course Number: ENGR 42
Instructor: Hunt, William (916)484-8217
Department: Math, Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day
Course Fee: Resident: $0.00
Non Resident: $125.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation

Physical Geography
Course Number: PHYS GEOG1
Instructor: Christopherson, Robert (916)484-8244
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day; Evening
Course Fee: Resident: $0.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

Physical Geology
Course Number: PHYS GEOL1
Instructor: Breitsprecher, Charles (916)484-8684
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day; Evening
Course Fee: Resident: $0.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Solar Heating

BAKERSFIELD COLLEGE

Bakersfield, CA 93305
(805)395-4011 (001118)

Solar Related Courses

*Solar Heating and Cooling of Residential Buildings **
Course Number: SOLAR I
Instructor: Tuttle, Robert E. (805)395-4571
Department: Industrial Education
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 48.0
Lab: 6.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

BARSTOW COLLEGE

2700 Barstow Road
Barstow, CA 92311
(714)252-2411 (001119)
Non Resident: $400.00

Solar Related Courses

Introduction to Residential Solar Energy
Course Number: PHYS 5
Instructor: Graham, R. W. (714)252-2411 EXT.257
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

California

BUTTE COLLEGE

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

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

Solar Related Courses

Solar Energy Systems
Course Number: TEC 280
Instructor: Peters, Mary (916)877-8308
Department: Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 00.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $8.00; Non Resident: $96.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

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

CABRILLO COLLEGE

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

Solar Curriculum

Solar Energy Technology
Degree: Associate
Solar Energy
Department: Solar Energy

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

Program and Curriculum Related Courses

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

Applications of Solar Energy in Agriculture
Course Number: SET 58
Instructor: Merrill, Richard (408)425-6256
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 00.0
Workshop: 96.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

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

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

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

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

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

Solar Home Design
Course Number: SET 53
Instructor: Riordan, Michael (415)321 2449
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $5.00; Non Resident: $153.00
Prerequisites: No

Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Remodeling I

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

Solar Remodeling II

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

Solar Technology and Fabrication I

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

Solar Technology and Fabrication II

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

Special Studies

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

Traveling Solar Energy Show

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

Wind Energy

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

Solar Technical Training

Solar Energy Technology

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

Program and Curriculum Related Courses

Alternate Energy Systems, Solar Technology

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

Applications of Solar Energy in Agriculture

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

Fundamentals of Solar Energy

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

Solar Architecture

Course Number: SET 54

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

Solar Electronics

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

Solar Energy in Agriculture

Course Number: SET 57
Instructor: Merrill, Richard (408)426-6266
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Passive Solar Systems; Photoconversion; Solar Heating; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion

Solar Field Studies

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

Solar Home Design

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

Solar Remodeling I

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

Solar Remodeling II

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

Solar Technology and Fabrication I

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

Solar Technology and Fabrication II

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

Special Studies

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

Traveling Solar Energy Show

Course Number: SET 61
Instructor: Burton, David (408)425-6452; Woodworth, David
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 10.0
Independent Study: 0.0
Job: 70.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $102.00
Prerequisites: Yes

Wind Energy

Course Number: SET 60
Instructor: Stayton, Bob (408)426-7828
Department: Solar Energy
Program: Solar Energy Technology
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0

Contact Hours: 64.0
Classroom: 16.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $5.00
Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

CERRITOS COLLEGE

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

Tuition (Full Time):

Resident: $0.00

Solar Related Courses

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

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

CERRO COSO COMMUNITY COLLEGE

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

Solar Curriculum

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

Program and Curriculum Related Courses

Collectors and Energy Storage
Course Number: AC/RF 56
Instructor: Takacs, Robert L.
(714)375-5001 EXT.55
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration, Solar Option
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 36.0
Lab: 54.0
Offered: Day; Evening; Weekend
Course Fee: Non Resident: $153.00
Prerequisites: Yes

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

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

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

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

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

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

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

Solar Technical Training

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

CHABOT COLLEGE VALLEY CAMPUS

3033 Collier Canyon Road
Livermore, CA 94550
(415)455-5300 (090160)

Tuition (Full Time):
Resident: $0.00 Non Resident: $370.00

Solar Related Courses

Solar Design Fundamentals
Course Number: 24
Instructor: Deleray, Arthur L. (415)455-5300 EXT.17
Department: Physical Science
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $0.00
Non Resident: $95.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

Solar Heat for You
Course Number: 24
Instructor: Deleray, Arthur L. (415)455-5300 EXT.17
Department: Physical Science
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $0.00
Non Resident: $95.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

CITRUS COLLEGE

Azusa, CA 91702
(213)335-0521 (001166)

Solar Related Courses

*Alternate Energy Sources **
Course Number: 102
Instructor: Bratt, George
Department: Physical Sciences, Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/ Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design

COASTLINE COMMUNITY COLLEGE

10231 Slater Avenue
Fountain Valley, CA 92708
(714)963-0811 (029027)

Tuition (Full Time):
Resident: $0.00

Curriculum with Solar Study

Energy Management
Degree: Certificate
Energy Management
Department: Area IV Educational Center
Contact: Martinez, S. Arthur (714)898-9871
Program Training: Architecture-Solar Specialization; Solar Energy Education; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Economics
Course Number: Energy 101
Instructor: Martinez, Art (714)898-9871
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Energy Systems Analysis
Course Number: Energy 102
Instructor: Martinez, Art (714)898-9871
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Solar Systems Testing/Evaluation

Environmental Equipment
Course Number: Energy 210
Instructor: Martinez, Art (714)898-9871
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Energy Conservation; Heat and Energy Transfer

Lighting Systems Design
Course Number: Energy 230
Instructor: Martinez, Art (714)898-9871
Department: Area IV Coastline
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation

Management Planning
Course Number: Energy 220
Instructor: Martinez, Art (714)898-9871
Department: Area III Coastline
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Marketing/Economic Analysis

Management, Behavior
Course Number: Energy 103
Instructor: Martinez, Art (714)898-9871
Program: Energy Management
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation

COLLEGE OF MARIN

Kentfield, CA 94904
(415)457-8811 (001178)

Solar Related Courses

Energy Efficient Design
Instructor: Sartor, Dale
Department: Adult Education
Student Level: Layperson
Duration: No. of weeks: 2.0
Hrs. per week: 8.0
Contact Hours: 16.0
Offered: Weekend
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing, Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

COLLEGE OF THE DESERT

43-500 Monterey
Palm Desert, CA 92260
(714)346-8041 (001182)

Tuition (Full Time):
Resident: $10.00 Non Resident: $110.00

Solar Related Courses

Introduction to Solar Energy
Course Number: Arch 13
Instructor: Marzicola, John (714)346-8041 EXT.201
Department: Engineering and Technology
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $9.00; Non Resident: $9.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems

COLLEGE OF THE REDWOODS

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

Solar Related Courses

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

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

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

COLLEGE OF THE SEQUOIAS

915 South Mooney Boulevard
Visalia, CA 93277
(209)733-2050 (001186)

Tuition (Full Time):
Resident: $0.00 Non Resident: $765.00

Solar Related Courses

Solar Applications
Course Number: PS 14
Instructor: Cottrell, Richard S. (209)733-2050 EXT.206
Department: Architecture, Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $0.00; Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

COSUMNES RIVER COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

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

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

Topics Covered Extensively: Components-Solar; Energy Storage Systems; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Heated Water Systems
Course Number: ED 32
Instructor: House, Harold (916)421-1000 EXT.232
Department: Environmental Design
Program: Solar and Alternate Energy Systems
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Workshop: 48.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

CUESTA COLLEGE

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

Solar Related Courses

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

CYPRESS COLLEGE

9200 Valley View
Cypress, CA 90630
(714)826-2220 (001193)

Tuition (Full Time):

Resident: $5.00 Non Resident: $618.00

Solar Related Courses

Energy Crisis - Alternate Sources
Course Number: 220
Instructor: Horn, J. G. (714)826-2220 EXT.263
Department: Engineering Technology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $155.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Environmental Geology
Course Number: 190
Instructor: Horn, J. G. (714)826-2220 EXT.263
Department: Geology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $155.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems

Geological Phenomena
Course Number: 110 ABC
Instructor: Horn, J. G. (714)826-2220 EXT.263
Department: Geology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 6.0; Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 18.0
Offered: Day
Course Fee: Resident: $5.00; Non Resident: $155.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Ocean Systems

DE ANZA COLLEGE

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

Solar Related Courses

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

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

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

DIABLO VALLEY COLLEGE

Golf Club Road
Pleasant Hill, CA 94523
(415)685-1230 (001191)
Non Resident: $750.00

Solar Related Courses

Buildings and Energy
Course Number: 150
Instructor: McGlibery, Colin (415)685-1230 EXT.427
Department: Architecture and Engineering
Student Level: College Freshman/Sophomore; Professional; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Non Resident: $50.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

FEATHER RIVER COLLEGE

Quincy, CA 95971
(916)283-0202 (008597)

Solar Related Courses

Solar Utilization and Energy - Wise Construction *
Course Number: PHYS SCI 75
Instructor: Martin, Bill (916)283-1197
Department: Physical Science
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 18.0; Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction; Solar Domestic Hot Water; Solar Heating; Solar Cooling

FOOTHILL COLLEGE

12345 El Monte Road
Los Altos Hills, CA 94022
(415)948-8590 (001199)

Solar Related Courses

Solar Energy
Course Number: ENV STUD 4
Instructor: Blanchard; Heinemann; Schiavo
Department: Engineering and Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating

FRESNO CITY COLLEGE

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

Tuition (Full Time):
Resident: $2.00 Non Resident: $300.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

Solar Related Courses

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

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

GAVILAN COLLEGE

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

Solar Related Courses

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

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

LAKE TAHOE COMMUNITY COLLEGE

P O Box 14445
South Lake Tahoe, CA 95702
(916)541-4660 (012907)

Tuition (Full Time):
Resident: $20.00 Non Resident: $645.00

Solar Related Courses

Solar Energy
Course Number: PHS 114
Instructor: Noble, Mike
(916)541-4660 EXT.44
Department: Physical Science
Student Level: College Freshman/Sophomore
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 1.0
Contact Hours: 11.0
Classroom: 11.0
Offered: Evening
Course Fee: Resident: $3.00
Non Resident: $16.00
Prerequisites: No

LONG BEACH CITY COLLEGE

1305 East Pacific Coast Highway
Long Beach, CA 92683
(213)420-4111 (001219)

Curriculum with Solar Study

Refrigeration and Air Conditioning
Degree: Associate, Certificate
Refrigeration and Air Conditioning
Department: Mechanical
Contact: Direnna, Dave
Wolff, Carl
(213)420-4575
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

LOS ANGELES TRADE TECHNICAL COLLEGE

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

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

MERCED COLLEGE

3600 M Street
Merced, CA 95340
(209)723-4321 (001237)

Tuition (Full Time):
Resident: $12.00 Non Resident: $360.00

Solar Related Courses

Energy Systems and Conservation
Course Number: IT 39
Instructor: Cox, James W. (209)723-4321 EXT.317
Department: Industrial Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day; Evening
Course Fee: Resident: $7.00; Non Resident: $98.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Hybrid Systems; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion; Wind Energy Conversion Systems

Solar Energy - Residential Applications
Course Number: IT 40
Instructor: Cox, James W. (209)723-4321 EXT.317
Department: Industrial Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $7.00; Non Resident: $98.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Systems Design

MERRITT COLLEGE

12500 Campus Drive
Oakland, CA 94619
(415)531-4911 (001267)

Tuition (Full Time):
Resident: $0.00 Non Resident: $180.00

Solar Related Courses

Self-Reliant Ecology
Course Number: 48A/31
Instructor: Ford, Charles (415)531-4911 EXT.278
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 18.0; Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Offered: Day; Evening
Course Fee: Resident: $0.00; Non Resident: $180.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

MODESTO JUNIOR COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

MONTEREY PENINSULA COLLEGE

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

Solar Technical Training

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

Solar Related Courses

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

MOORPARK COLLEGE

Moorpark, CA 93021
(805)529-2321 (007116)

Solar Related Courses

*Solar Heating Construction Institute **
Course Number: ET 89B
Instructor: Ainge, Ken (805)529-2321
Department: Technology
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 9.0; Hrs. per week: 3.0
Contact Hours: 27.0
Classroom: 27.0
Topics Covered Extensively: Appropriate Technology; Solar Domestic Hot Water

MOUNT SAN ANTONIO COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

*Solar Energy Systems Installation **
Course Number: 71/71L
Instructor: Bormann, Jay (714)594-5611
Department: Electronics
Program: Air Conditioning, Heating, and Ventilating *

Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

MOUNT SAN JACINTO COLLEGE

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

Solar Related Courses

Solar Collector Design
Course Number: Engr 6
Instructor: Caldwell, Benton
(714)654-7321
Department: Vocational Education
Student Level: College Junior/Senior; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Non Resident: $140.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Hybrid Systems; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

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

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

NAPA COLLEGE

Napa, CA 94558
(707)255-2100 (001247)

Solar Related Courses

Solar Energy Workshop *
Instructor: Dean, Anson R.
(916)758-4686
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 6.0
Hrs. per week: 3.0
Contact Hours: 18.0
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating

ORANGE COAST COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

RIVERSIDE CITY COLLEGE

Riverside, CA 92506
(714)684-3240 (001270)

Solar Related Courses

Solar Energy Applications *
Course Number: AC 52A
Instructor: Budd, Frank W.
(714)684-3240
Department: Air Conditioning
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 18.0
Hrs. per week: 7.0
Contact Hours: 126.0
Classroom: 72.0
Lab: 54.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

SACRAMENTO CITY COLLEGE

3835 Freeport Boulevard
Sacramento, CA 95822
(916)449-7531 (001233)

Tuition (Full Time):

Resident: $0.00

Solar Related Courses

Basic Solar Heating and Cooling Systems
Course Number: MET 141
Instructor: Stockwell, Richard
(916)449-7278
Goff, Don
Department: Occupational Technology, Mechanical, Electrical Technology
Student Level: Layperson; College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance

SAN DIEGO CITY COLLEGE

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

Curriculum with Solar Study

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

SAN DIEGO COMMUNITY COLLEGE - EVENING COLLEGE

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

Solar Technical Training

Air Conditioning, Heating, Refrigeration and Solar Technology *

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

Program and Curriculum Related Courses

Advanced Solar Service, Maintenance and Technology *

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

Air Conditioning, Heating, Refrigeration, and Solar Energy *

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

Solar Service, Maintenance, and Technology *

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

SAN DIEGO COMMUNITY COLLEGE MESA COLLEGE

7250 Mesa College Drive
San Diego, CA 92111
(714)279-2300 (001275)

Tuition (Full Time):

Resident: $0.00

Solar Related Courses

Utilization of Solar Energy

Course Number: BCT-215
Instructor: Reeder, M. M.
(714)279-2300 EXT.378
Department: Building Construction Technology
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Offered: Day
Course Fee: Resident: $0.00
Non Resident: $204.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

SAN JOSE CITY COLLEGE

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

Tuition (Full Time):

Resident: $5.00 Non Resident: $840.00

Solar Technical Training

Solar Technology

Degree: Associate, Certificate
Science
Department: Natural and Applied Science; Air Conditioning and Refrigeration
Contact: Haley, J. P.
(408)298-2181 EXT.417
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Architecture-Solar Specialization; Solar Energy Education; Electricity-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy, Industrial Applications

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

Solar Energy, Residential Applications

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

SIERRA COLLEGE

Rocklin, CA 95677
(916)624-3333 (001290)

Solar Related Courses

Solar Energy Housing *

Course Number: WT 6
Department: Wood Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Topics Covered Extensively: Energy Conservation

SOUTHWESTERN COLLEGE

900 Otay Lakes Road
Chula Vista, CA 92010
(714)421-6700 (001294)

Solar Related Courses

Utilization of Solar Energy

Course Number: ENGR 95
Instructor: Heath, Steve
(714)421-6700 EXT.265
Department: Community Services
Student Level: All Levels; Layperson
Contact Hours: 18.0
Offered: Evening
Course Fee: Resident: $13.50
Non Resident: $13.50
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Solar Cooling; Solar Domestic Hot Water; Solar Heating

WEST VALLEY COLLEGE

Saratoga, CA 95070
(408)867-2200 (001338)

Solar Related Courses

*Introduction of Solar Energy **

Instructor: Feemster, John (408)925-3095
Department: Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Vocational / Technical Schools

COGSWELL COLLEGE

600 Stockton Street
San Francisco, CA 94108
(415)433-5550 (001177)

Tuition (Full Time):

Resident: $50.00 Non Resident: $100.00

Solar Related Courses

Solar Energy Applications

Course Number: CT 431
Instructor: Miller, Ronald C. (415)433-5550 EXT.261
Department: Civil, Structural
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 15.0
Workshop: 18.0
Offered: Day
Course Fee: Resident: $180.00; Non Resident: $680.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Passive Solar Systems; Solar Energy Policy Development

HARBOR OCCUPATIONAL CENTER

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

Tuition (Full Time):

Resident: $30.50

Solar Technical Training

Solar Energy

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

Program and Curriculum Related Courses

Solar Energy

Course Number: 29-27-21
Instructor: Kloth, R. A. (213)547-5551
Program: Solar Energy
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 5.0 (Quinmester)
C.E.U.'s: 5.0
Duration: No. of weeks: 19.0; Hrs. per week: 15.0
Contact Hours: 285.0
Classroom: 90.0
Workshop: 186.0
Field Trips: 6.0
Offered: Day
Course Fee: Resident: $30.50
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Other Educational Institutions and Organizations

SOLAR TECHNICIAN TRAINING PROGRAM - OFFICE OF APPROPRIATE TECHNOLOGY

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

Solar Technical Training

Solar Installer Training Curriculum

Contact: Schmidt, Werner; Philbin, Jan (916)322-9238
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization

THE OWNER BUILDER CENTER

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

Tuition (Full Time):

Resident: $150.00

Solar Related Courses

Advanced Housebuilding

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

Housebuilding Course

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

Residence Housebuilding

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

Seminar: Passive Solar Design

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

Seminar: Solar Hot Water Heating Systems

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

Seminar: The Solar Tax Credits and Energy Efficiency in Buildings

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

Colorado

Colleges and Universities

ADAMS STATE COLLEGE

Alamosa, CO 81102
(303)589-7346 (001345)

Solar Related Courses

*Special Projects: Solar Heating **

Course Number: 1A 303
Instructor: Spannagel, Larry
(303)589-3133
Department: Industrial Arts
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Passive Solar Systems; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

COLORADO SCHOOL OF MINES

Golden, CO 80401
(303)279-0300 (001348)

Solar Related Courses

Principles of Solar Energy Systems

Course Number: PH 419
Instructor: Mathews, Frank S.
(303)279-0300
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Topics Covered Extensively: Introduction to Solar Energy

*Renewable Energy Sources **

Course Number: BE 479
Instructor: Miller, Sam
(303)279-0300 EXT.674
Department: Basic Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Solar Systems Testing/Evaluation

COLORADO STATE UNIVERSITY

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

Solar Technical Training

Practical Training in Design and Installation of Solar Systems

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

Program and Curriculum Related Courses

Design of Solar Energy Systems

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

Practical Design and Installation of Solar Systems

Program: Practical Training in Design and Installation of Solar Systems
C.E.U.'s: 0.0
Contact Hours: 40.0

Solar Heating and Cooling

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

Principles of Solar Energy Applications

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

Solar Related Courses

*Economic and Policy Aspects of Solar Energy **

Course Number: EC 792
Instructor: Yokell, Michael D.
(303)231-1060
Department: Economics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Solar Energy Policy Development; Solar Marketing/Economic Analysis

COLORADO TECHNICAL COLLEGE

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

Tuition (Full Time):

Resident: $575.00 Non Resident: $575.00

Solar Curriculum

Solar Engineering Technology

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

Program and Curriculum Related Courses

Associate Seminar

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

Directed Practice

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

Introduction to Energy

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

Solar Design I

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

Solar Design II

Course Number: SOL 221
Instructor: Christensen, Edward
(303)598-0200
Department: Solar Engineering Technolo
Program: Solar Engineering Technolo
Student Level: College Freshman/Sophomore; Professional
Academic Credits: 4.0 (Quarter)

Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 33.0
Lab: 22.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating; Solar Systems Design

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

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

FORT LEWIS COLLEGE

Durango, CO 81301
(303)247-7661 (001353)

Solar Related Courses

Elements of Solar Energy *
Course Number: GS 200
Instructor: Capp, Clifford (303)247-7249
Department: General Studies
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 5.0
Hrs. per week: 8.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 10.00
Other 10.00
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

MESA COLLEGE

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

Solar Technical Training

Solar Power
Engineering, Continuing Education
Department: Continuing Education; Outreach
Contact: Ramsey, Woodrow (303)248-1565
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Advanced Solar
Instructor: Ramsey, Woodrow (303)248-1020
Department: Engineering, Continuing Education
Program: Solar Power
Student Level: Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Lab: 10.0
Offered: Evening
Course Fee: Resident: $27.00
Non Resident: $27.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy

Beginning Solar Power
Instructor: Ramsey, Woodrow (303)248-1020
Department: Engineering, Continuing Education
Program: Solar Power
Student Level: Layperson
C.E.U.'s: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 20.0
Lab: 10.0
Offered: Evening
Course Fee: Resident: $27.00
Non Resident: $27.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

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

METROPOLITAN STATE COLLEGE

1006 11th Street
Denver, CO 80204
(303)629-2400 (001360)

Curriculum with Solar Study

Solar Curriculum for Industrial Arts Teachers
Degree: Bachelor
Department: Industrial Education
Contact: Parker (303)629-2916
Program Training: Do-It-Yourself/Home Installation

Solar Related Courses

Alternate Energy Sources *
Course Number: 190
Instructor: Leitz, Robert (303)629-3143
Department: Earth Sciences
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Passive Solar Systems

Economics of Solar Heating *
Course Number: EET 390
Instructor: Smith, Howard S. (303)629-3084
Department: Electronics Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 4.0
Hrs. per week: 7.5
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/Economic Analysis

UNITED STATES AIR FORCE ACADEMY

U S A F Academy, CO 80840 (001369)

Solar Related Courses

Solar Energy Applications
Course Number: CE 461
Instructor: Cornelius, Kenneth (303)472-2889
Department: Civil Engineering, Engineering Mechanics and Materials
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.5
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF COLORADO AT BOULDER

Boulder, CO 80309
(303)492-0111 (001370)

Curriculum with Solar Study

Appropriate Technology
Degree: Master, Bachelor Environmental Design, Architecture
Department: Environmental Design
Contact: Holloway, Dennis R. (303)492-7497
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial

Program and Curriculum Related Courses

Appropriate Technology, 334
Course Number: ENVD 334

Instructor: Holloway, Dennis R. (303)492-7497
Department: Environmental Design
Program: Appropriate Technology
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 24.0
Lab: 66.0
Offered: Day; Evening
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Appropriate Technology, 333

Course Number: ENVD 333
Instructor: Holloway, Dennis R. (303)492-7497
Department: Environmental Design
Program: Appropriate Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 24.0
Lab: 66.0
Offered: Day; Evening
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Community Design, Problem Solving Design

Course Number: 300
Instructor: Holloway, Dennis R. (303)492-7497
Department: Environmental Design
Program: Appropriate Technology
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 8.0
Contact Hours: 120.0
Classroom: 24.0
Lab: 96.0
Offered: Day
Course Fee: Resident: $198.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Solar Energy Policy Development; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis

Solar Technology

Course Number: ENVD 332
Instructor: Holloway, Dennis R. (303)492-7497
Department: Environmental Design
Program: Appropriate Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 12.0
Lab: 33.0
Offered: Day; Evening
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

Curriculum with Solar Study

Joint Instruction for Laboratory Astrophysics

Department: Arts and Sciences; Engineering
Contact: Hummer, David (303)492-6787
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Curriculum with Solar Study

Laboratory for Atmospheric and Space Physics

Department: Arts and Sciences; Engineering
Contact: Barth, Charles A. (303)492-7677
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Solar Related Courses

Computer-Aided Thermal Design

Course Number: 458
Instructor: Johnson, Herbert (303)492-6648
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Solar Marketing/Economic Analysis; Solar Systems Design

Energy in a Technical Society

Course Number: 207
Instructor: Bartlett, David (303)492-6920
Kreith, Jack
Department: Arts and Sciences, Physics, Astrophysics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Energy Conversion

Course Number: 455
Instructor: Johnson, Herbert (303)492-6648
Department: Engineering, Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Heat and Energy Transfer

Energy Utilization

Course Number: 496
Instructor: Kronz, Jerrold (303)492-7925
Department: Engineering, Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Solar Energy Utilization

Course Number: 405/505
Instructor: Kreith, Frank (303)492-7471
West, Ron
Department: Engineering, Chemical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Testing/Evaluation

Sun And Solar Energy

Course Number: 321
Instructor: McKim, Malville J. (303)492-8913
Department: Arts and Sciences, Astrogeophysics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 38.0
Lab: 10.0
Course Fee: Resident: $99.00
Non Resident: $1,333.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design

UNIVERSITY OF COLORADO COLORADO SPRINGS

Colorado Springs, CO 80907
(303)598-3737 (004509)

Tuition (Full Time):
Resident: $132.00 Non Resident: $278.00

Curriculum with Solar Study

Distributed Studies in Energy Science
Degree: Bachelor
Department: Physics and Energy Science
Contact: Blade, Richard A.
(303)598-3737
Program Training: Scientific Research and Development in Solar Energy; Solar System Installation-Residential; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Introduction to Energy Sciences
Course Number: 150/151
Instructor: Grogger, P.
(303)598-3737
Scott, M.
Blade, R.
Department: Physics and Energy Sciences
Program: Distributed Studies in Energy Science
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 40.0
Contact Hours: 80.0
Classroom: 64.0
Lab: 16.0
Offered: Day
Course Fee: Resident: $132.00
Non Resident: $278.00
Prerequisites: No

Methods of Energy Sciences, 350
Course Number: 350
Instructor: Grogger, P.
(303)598-3737
Blade, R.
Department: Physics and Energy Sciences
Program: Distributed Studies in Energy Science
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 96.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Methods of Energy Sciences, 351
Course Number: 351
Instructor: Grogger, P.
(303)598-3737
Blade, R.
Department: Physics and Energy Sciences
Program: Distributed Studies in Energy Science
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 96.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Solar Energy I
Course Number: 160
Instructor: Scott, M.
(303)598-3737
Department: Physics and Energy Science
Program: Distributed Studies in Energy Science
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 40.0
Lab: 20.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $60.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Energy II
Course Number: 360
Instructor: Jones, Robert
(303)598-3737
Department: Physics and Energy Sciences
Program: Distributed Studies in Energy Science
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $60.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Heating; Solar Systems Design

UNIVERSITY OF NORTHERN COLORADO

Greeley, CO 80639
(303)351-1890 (001349)

Solar Related Courses

*Applied Solar Energy **
Course Number: 467
Instructor: Fadner, Willard
(303)351-2962
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Systems Design; Centralized Solar Power Systems; Solar Heating

UNIVERSITY OF SOUTHERN COLORADO

2200 North Bonforte Boulevard
Pueblo, CO 81001
(303)549-0123 (001365)

Tuition (Full Time):

Resident: $327.00 Non Resident: $1,037.00

Solar Related Courses

Solar Energy
Course Number: Physics 130
Instructor: Watkins, Sallie A.
(303)549-2467
Student Level: College Freshman/Sophomore
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Day
Course Fee: Resident: $34.00
Non Resident: $88.00
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

WESTERN STATE COLLEGE OF COLORADO

700 Prospect Street
Gunnison, CO 81230
(303)943-0120 (001372)

Tuition (Full Time):

Resident: $229.00 Non Resident: $861.00

Solar Related Courses

Design for Solar Energy in Home Heating
Course Number: IA-233
Instructor: Kowal, Jerry
(303)943-2004
Department: Industrial Arts
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 15.0
Contact Hours: 30.0
Classroom: 20.0
Workshop: 10.0
Offered: Day
Course Fee: Resident: $55.00
Non Resident: $123.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Passive Solar Architecture
Course Number: IA 233
Instructor: Kowal, Jerry
(303)943-2004
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 15.0
Contact Hours: 30.0
Classroom: 20.0
Workshop: 10.0
Course Fee: Resident: $55.00
Non Resident: $123.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Systems Design

Junior and Community Colleges

AIMS COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $90.00 Non Resident: $120.00

Solar Related Courses

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

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

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

ARAPAHOE COMMUNITY COLLEGE

5900 South Santa Fe Drive
Littleton, CO 80120
(303)794-1550 (001346)

Tuition (Full Time):
Resident: $131.60 Non Resident: $484.25

Solar Related Courses

Energy Futures
Course Number: ECT 261
Instructor: Amoroso, Gene (303)794-1550 EXT.404
Department: Vocational Education
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $33.80 Non Resident: $122.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis

Long Term Energy Conservation Solutions
Course Number: ECT 242
Instructor: Amoroso, Gene (303)794-1550 EXT.404
Department: Vocational Education
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $33.80 Non Resident: $122.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Hybrid Systems; Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/Economic Analysis

Solar Hot Water and Space Conditioning
Course Number: ECT 211
Instructor: Amoroso, Gene (303)794-1550 EXT.404
Department: Vocational Education
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day; Evening
Course Fee: Resident: $44.65 Non Resident: $162.25
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

COLORADO MOUNTAIN COLLEGE WEST CAMPUS

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

Solar Related Courses

Solar Architecture
Course Number: BLO 204 A3-5
Department: General Studies
Student Level: All Levels
Academic Credits: 5.0
C.E.U.'s: 5.0
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Offered: Day; Evening
Course Fee: Resident: $30.00 Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

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

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

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

COLORADO NORTHWESTERN COMMUNITY COLLEGE

775 Yampa
Craig, CO 81625
(303)824-4078 (091040)

Tuition (Full Time):
Resident: $175.00 Non Resident: $500.00

Solar Related Courses

Solar Greenhouses
Department: Western Colorado Rural Development
Student Level: All Levels; Layperson
C.E.U.'s: 1.0
Contact Hours: 5.0
Offered: Evening
Course Fee: Resident: $1.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Greenhouse Techniques

COMMUNITY COLLEGE OF DENVER NORTH CAMPUS

3645 West 112th Avenue
Westminster, CO 80030
(303)287-8811 (007933)

Tuition (Full Time):
Resident: $223.00 Non Resident: $905.00

Solar Related Courses

Solar Energy
Course Number: SCI 120
Instructor: Kroll, Fred (303)466-8811
Department: Science, Math

Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $55.00
Non Resident: $226.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Energy Policy Development

COMMUNITY COLLEGE OF DENVER, RED ROCKS CAMPUS

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

Tuition (Full Time):

Resident: $194.50 Non Resident: $876.50

Solar Curriculum

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

Program and Curriculum Related Courses

Advanced Passive Solar Systems
Course Number: SOM 246
Instructor: Ternoey, Steve
(303)988-6161 EXT.225
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Advanced Solar Controls
Course Number: SOM 236
Instructor: Klima, John
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Materials; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

Agricultural Applications of Renewable Energy Resources
Course Number: SOM 240
Instructor: Malik, M. A. S.
(303)988-6161 EXT.225
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 52.0
Lab: 16.0
Offered: Evening
Course Fee: Resident: $64.80
Non Resident: $292.20
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Systems Design

Alternate Backup Systems for Solar Energy
Course Number: SOM 238
Instructor: Hilton, Craig
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Basic Sheet Metal for Solar Energy
Course Number: SHM 100
Instructor: DuPriest, Don
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Components-Solar; Materials; Sheet Metal Techniques; Solar Heating; Solar Systems Installation/Maintenance

Basic Solar Controls
Course Number: SOM 235
Instructor: Klima, John
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Components-Solar; Materials; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

Basic Solar Systems
Course Number: SOM 220
Instructor: Hilton, Craig
(303)988-6161
Hilton, Robert
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Blueprint Reading for Construction Trades
Course Number: BTR 125
Instructor: Feister, Clarence
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Day; Evening
Course Fee: Resident: $64.80
Non Resident: $292.20
Prerequisites: No
Topics Covered Extensively: Solar Home Construction

Carpentry for Construction Trades
Course Number: CAR 125
Instructor: Hinz, Tim
(303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60
Non Resident: $219.15

Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Home Construction

Greenhouses
Course Number: SOM 245
Instructor: Malik, M. A. S. (303)988-6161 EXT.225
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $64.80; Non Resident: $292.20
Prerequisites: Yes
Topics Covered Extensively: Greenhouse Techniques; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Hot Water Heating - Installation and Maintenance
Course Number: PLU 206
Instructor: Hilton, Robert (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques

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

Masonry Techniques for Solar Energy
Course Number: BRI 125
Instructor: Rudden, Dick (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Solar Home Construction; Solar Systems Installation/Maintenance

Orientation of Tools, Basic Plumbing, and Drawing
Course Number: PLU 100
Instructor: Hilton, Robert (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: No
Topics Covered Extensively: Plumbing Techniques

Passive Solar Systems
Course Number: SOM 237
Instructor: Ternoey, Steve (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Domestic Hot Water
Course Number: SOM 227
Instructor: Hilton, Craig (303)988-6161; Hilton, Robert; O'Connor, Kevin
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 20.0
Lab: 25.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Engineering Technology I
Course Number: SOM 221
Instructor: Haugseth, Larry (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $64.80; Non Resident: $292.20
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Engineering Technology II
Course Number: SOM 222
Instructor: Dahl, Mike (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.5
Contact Hours: 68.0
Classroom: 45.0
Lab: 23.0
Offered: Evening
Course Fee: Resident: $64.80; Non Resident: $292.20
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Heating; Solar Systems Design

Solar Lab
Course Number: SOM 298
Instructor: Hilton, Craig (303)988-6161
Department: Industrial Occupations
Program: Solar Energy Installation and Maintenance
Contact Hours: 240.0
Topics Covered Extensively: Components-Solar; Sheet Metal Techniques; Solar Systems Design

Solar Panel Arrays
Course Number: SOM 226
Instructor: Hilton, Craig (303)988-6161; Hilton, Robert
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 10.0
Lab: 35.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes

Topics Covered Extensively: Components-Solar; Solar Home Construction; Solar Systems Installation/ Maintenance

Solar Panel Installations

Course Number: SOM 229
Instructor: Hilton, Craig (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Job: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Hybrid Systems; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar System Design and Layout

Course Number: SOM 225
Instructor: Hilton, Craig (303)988-6161; Hilton, Robert
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Course Fee: Resident: $48.00; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar System Maintenance

Course Number: SOM 228
Instructor: Hilton, Craig (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 35.0
Job: 10.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Energy Policy Development; Solar Marketing/Economic Analysis; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Water Piping Methods

Course Number: PLU 107
Instructor: Hilton, Robert (303)988-6161
Department: Industrial Occupations
Program: Solar Energy-Installation and Maintenance
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $48.60; Non Resident: $219.15
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques

Solar Technical Training

Solar Energy - Installation and Maintenance

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

OTERO JUNIOR COLLEGE

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

Curriculum with Solar Study

*Architectural Technology - Solar Heating Option **

Degree: Associate; Applied Science
Department: Construction; Manufacturing
Contact: Nilsen, E. W. (303)384-4443
Program Training: Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

*Architectual Technology - Solar Heating Option **

Instructor: Nilsen, E. W. (303)384-4443
Department: Construction and Manufacturing
Program: Architectural Technology - Solar Heating Option *
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 30.0; Hrs. per week: 12.0
Contact Hours: 360.0
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/ Maintenance; Solar Domestic Hot Water; Solar Heating

PIKES PEAK COMMUNITY COLLEGE

5675 South Academy Boulevard
Colorado Springs, CO 80906
(303)576-7711 (070040)

Tuition (Full Time):
Resident: $141.60 Non Resident: $573.00

Solar Related Courses

Science of Solar Energy

Course Number: ESC 282
Instructor: Damon, Thomas (303)576-7711 EXT.347
Department: Math, Science
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Course Fee: Resident: $29.10; Non Resident: $102.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Heating

TRINIDAD STATE JUNIOR COLLEGE

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

Tuition (Full Time):
Resident: $130.00 Non Resident: $480.00

Solar Technical Training

Building Trades Shop

Degree: Certificate; House Construction
Department: Building Trades
Contact: Furia, Nick; Brunelli, Roger F. (303)846-5571
Program Training: Solar Energy Education; Solar System Installation Residential

Program and Curriculum Related Courses

Solar Home Construction

Course Number: BT 280
Instructor: Brunelli, Roger F. (303)846-5571
Department: Building Trades
Program: Building Trades Shop
Student Level: All Levels; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $11.00; Non Resident: $40.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Vocational / Technical Schools

DOMESTIC TECHNOLOGY INSTITUTE

Box 2043
Evergreen, CO 80439 (090550)

Solar Related Courses

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

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

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

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

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

EMILY GRIFFITH OPPORTUNITY SCHOOL

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

Tuition (Full Time):
Resident: $12.00 Non Resident: $156.00

Solar Technical Training

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

Program and Curriculum Related Courses

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

PUEBLO VOCATIONAL COMMUNITY COLLEGE

900 West Orman
Pueblo, CO 81004
(303)549-3320 (060186)

Solar Related Courses

Solar Heating
Instructor: Maxwell, Lane
(303)545-8122
Department: Adult Ed
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Other Educational Institutions and Organizations

COLORADO SUNWORKS

P O Box 455
Boulder, CO 80306
(303)553-9199 (091140)

Solar Related Courses

Solar Workshop
Instructor: Shippee, Paul
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 5.0
Hrs. per week: 7.0
Contact Hours: 35.0
Classroom: 35.0
Offered: Weekend
Course Fee: Resident: $185.00
Non Resident: $185.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

DENVER FREE UNIVERSITY

1122 East 17th Avenue
P O Box 18455
Denver, CO 80218
(303)832-6688 (090570)

Solar Related Courses

A Survey of Solar Principles Techniques and Equipment
Course Number: 1120
Instructor: Ben Favre
Duration: No. of weeks: 6.0
Hrs. per week: 1.5
Contact Hours: 9.0
Classroom: 9.0
Offered: Evening
Course Fee: Resident: $14
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Energy Conservation and Solar Energy Use in Your Home
Course Number: 1124
Instructor: John Proctor
Duration: No. of weeks: 7.0
Hrs. per week: 2.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Evening
Course Fee: Resident: $29
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer, Solar Cooling; Solar Heating

Heat Loss and Heat Gain Calculations for Solar Installations
Course Number: 1123
Instructor: Ben Favre
Duration: No. of weeks: 8.0
Hrs. per week: 1.5
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Course Fee: Resident: $17
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design

Introduction to Solar Heating and Cooling
Course Number: 1121
Instructor: Ben Favre
Duration: No. of weeks: 8.0
Hrs. per week: 1.5
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Course Fee: $15
Prerequisites: No
Topics Covered Extensively: Components - Solar; Energy Conservation; Solar Cooling; Solar Heating

Solar Design
Course Number: 1122
Instructor: Ben Favre
Duration: No. of weeks: 8.0
Hrs. per week: 1.5
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design; Solar Systems Testing/Evaluation

SOLARON CORPORATION

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

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

Solar Technical Training

Solaron Solar Center Programs
Degree: Certificate
Solar Space Heating/Process Air and Water Heating
Department: Solaron Corporation
Contact: Meeker, John G.
(303)759-0101
Program Training: Engineering-Solar Specializatio.., General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar

Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Detailed Installation, Startup, Balancing, and Service Lab

Course Number: C
Instructor: Program Coordinator (303)759-0101
Department: Engineering and Systems Service
Program: Solaron Solar Center Programs
Student Level: Professional; Skilled Labor
Contact Hours: 32.0
Classroom: 10.0
Lab: 22.0
Offered: Day
Course Fee: Resident: $250.00
Non Resident: $250.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

General Installation and Startup Lab

Course Number: B
Instructor: Program Coordinator (303)759-0101
Department: Engineering and Systems Service
Program: Solaron Solar Center Programs
Student Level: Managerial; Professional; Skilled Labor
Contact Hours: 16.0
Classroom: 6.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Marketing, Engineering Seminar

Course Number: A
Instructor: Program Coordinator (303)759-0101
Program: Solaron Solar Center Programs
Student Level: Managerial; Professional; Skilled Labor
Contact Hours: 24.0
Classroom: 24.0
Offered: Day
Course Fee: Resident: $50.00
Non Resident: $50.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Connecticut

Colleges and Universities

CENTRAL CONNECTICUT STATE COLLEGE

1615 Stanley Street
New Britain, CT 06050
(203)827-7000 (001378)

Solar Related Courses

Earth, Energy, and the Environment

Course Number: SCI 113
Instructor: Devassy, Thattil J. (203)827-7280
Department: Physics, Earth Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Solar Heating

*Introduction to Energy Processing **

Course Number: IE 114
Instructor: Duffy, Joseph (203)827-7378
Department: Technology
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 26.0
Lab: 70.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Wind Energy Conversion Systems

FAIRFIELD UNIVERSITY

Fairfield, CT 06430
(203)255-5411 (001385)

Tuition (Full Time):

Resident: $1,738.00

Solar Related Courses

Energy and Environment

Course Number: PS 93
Instructor: Newton, Victor (203)255-5411 EXT.564
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $215.00
Non Resident: $215.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Power to the People: Energy in Our Lives

Course Number: ED 311.4
Instructor: Pitt, Robert (203)255-5411 EXT.413
Department: Environmental Studies
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Evening
Course Fee: Resident: $225.00
Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

HARTFORD GRADUATE CENTER

HARTFORD, CT 06120 (002804)

Solar Related Courses

Advanced Passive and Active Solar Energy Systems Design

Course Number: T 26
Instructor: Lunde, Peter J. (203)549-3600
Department: Special Programs
Student Level: Professional
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 28.0
Lab: 2.0
Offered: Day; Evening
Course Fee: Resident: $295.00
Non Resident: $295.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Fundamentals of Solar Energy Systems for Buildings

Course Number: T 23, T 36
Instructor: Lunde, Peter J. (203)549-3600
Department: Special Programs
Student Level: Professional; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $250.00
Non Resident: $250.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy Calculations and the Programmable Calculator

Course Number: T 25
Instructor: Lunde, Peter J. (203)549-3600
Department: Special Programs
Student Level: Professional
C.E.U.'s: 1.2
Duration: No. of weeks: 4.0
Hrs. per week: 3.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Design

Solar Energy Systems: Installation, and Maintenance

Course Number: T 24, T 37
Instructor: Lunde, Peter J. (203)549-3600
Department: Special Programs

Student Level: Professional; Skilled Labor
C.E.U.'s: 1.8
Duration: No. of weeks: 6.0
Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 18.0
Offered: Day; Evening
Course Fee: Resident: $195.00
Non Resident: $195.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

SAINT JOSEPH COLLEGE

West Hartford, CT 06117
(203)232-4571 (001409)

Solar Related Courses

Energy Conservation
Course Number: SCI ED 507
Instructor: Markham, S. Claire
(203)232-4571
Murphy, S. MaryEllen
Department: Chemistry
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0

Energy Resources for the Home
Course Number: SCI ED 507
Instructor: Markham, Clare A.
(203)232-4571
Department: Chemistry
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Energy Conservation

UNITED STATES COAST GUARD ACADEMY

New London, CT 06320
(203)443-8463 (001415)

Solar Related Courses

Energy Conversion
Course Number: 1422
Instructor: Gathy, B. S.
(203)443-8463
Colburn, W. E.
Department: Applied Science and Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Ocean Systems; Wind Energy Conversion Systems

UNIVERSITY OF CONNECTICUT MAIN CAMPUS

Storrs, CT 06268
(203)486-2000 (029013)

Tuition (Full Time):
Resident: $516.00 Non Resident: $861.00

Solar Related Courses

Applied Solar Energy
Course Number: ME 327
Instructor: Pitkin, Edward T.
(203)486-2332
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $135.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

UNIVERSITY OF NEW HAVEN

West Haven, CT 06516
(203)934-6321 (001397)

Solar Related Courses

Solar Heating: Active and Passive
Course Number: SS-23
Instructor: Preiss, Gordon
(203)934-6321
Department: Special Studies
C.E.U.'s: 3.6
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Offered: Evening
Course Fee: Resident: $195.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

WESLEYAN UNIVERSITY

Middletown, CT 06457
(203)347-9411 (001424)

Solar Related Courses

*Field Work in Energy Planning, 417 **
Course Number: 417
Instructor: Haake, Paul
(203)347-9411
Department: Science in Society
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 8.0
Contact Hours: 104.0
Classroom: 98.0
Job: 6.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Installation/Maintenance

*Field Work in Energy Planning, 413 **
Course Number: 413
Instructor: Trousdale, William
(203)347-9411
Department: Science in Society
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 33.0
Job: 6.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy

*Field Work in Energy Planning, 412 **
Course Number: 412
Instructor: Brown, Howard J.
(203)347-9411
Department: Science in Society
Student Level: College Junior/Senior
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Solar Marketing/Economic Analysis; Passive Solar Systems

WESTERN CONNECTICUT STATE COLLEGE

181 White Street
Danbury, CT 06810
(203)792-1400 (001380)

Solar Related Courses

Extended Programs and Career Dev.
Instructor: Heyman, Joseph
(203)797-4208
Department: Extended Programs and Career Dev.
Student Level: Layperson
Duration: No. of weeks: 7.0
Hrs. per week: 2.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Evening
Course Fee: Non Resident: $47.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating; Solar Systems Installation/Maintenance

Passive Solar Heating
Instructor: Tucker, Glenn T.
(203)797-4208
Department: Extended Programs and Career Dev.
Student Level: Layperson
Duration: No. of weeks: 3.0
Hrs. per week: 2.5
Contact Hours: 7.5
Classroom: 7.5
Offered: Evening
Course Fee: Non Resident: $26.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating; Solar Systems Installation/Maintenance

YALE UNIVERSITY

New Haven, CT 06511
(203)436-4771 (001426)

Solar Related Courses

*Energy Conservation Seminar **
Course Number: C 24 (B)
Instructor: Watson, Donald
(203)453-6388
Department: Architecture

Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 2.0
Contact Hours: 26.0
Classroom: 26.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design; Solar Heating; Solar Cooling

Heating, Ventilating, Air Conditioning, and Energy Conservation *
Course Number: A 21
Instructor: Barber, Everett M. (203)436-0550
Department: Architecture
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Passive Solar Systems

Contact Hours: 33.0
Classroom: 18.0
Seminar: 6.0
Workshop: 9.0
Offered: Evening

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

Junior and Community Colleges

NORWALK STATE TECHNICAL COLLEGE

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

Tuition (Full Time):

Resident: $337.00 Non Resident: $1,092.00

Solar Technical Training

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

Program and Curriculum Related Courses

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

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

Vocational / Technical Schools

HARTFORD STATE TECHNICAL COLLEGE

401 Flatbush Avenue
Hartford, CT 06106
(203)527-4111 (001388)

Tuition (Full Time):

Resident: $100.00

Solar Related Courses

Seminar in Solar Energy
Course Number: ENT 530
Instructor: Boyer, R. L. (203)527-4111
Department: Energy Engineering Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Trimester)
C.E.U.'s: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Seminar: 33.0
Offered: Day
Course Fee: Resident: $45.00
Prerequisites: Yes

MILDEN INSTITUTE INCORPORATED

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

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

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

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

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

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

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

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

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

Solar Related Courses

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

Solar Energy Heating Systems
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Prerequisites: Yes

Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating

SOLAR POWER INSTITUTE

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

Tuition (Full Time):
Resident: $540.00 Non Resident: $390.00

Solar Technical Training

National Solar Installation Training Course
Degree: Certificate
Contact: Roccapriore, Gerard (203)235-2372

Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

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

Delaware

Colleges and Universities

UNIVERSITY OF DELAWARE

One Pike Creek Center
Wilmington, DE 19711
(302)995-7155 (001431)

Tuition (Full Time):
Resident: $470.00 Non Resident: $1,100.00

Curriculum with Solar Study

Applied Science, Energy Conversion
Degree: Doctorate, Master
Department: Engineering
Contact: Fagen, Edward (302)738-1164

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

Program and Curriculum Related Courses

Photovoltaics
Instructor: Boer, K. W. (302)738-8048
Department: Mechanical and Aerospace Engineering
Program: Applied Science, Energy Conversion
Duration: No. of weeks: 17.0 Hrs. per week: 3.0
Contact Hours: 51.0
Course Fee: Resident: $39.00 Non Resident: $92.00
Prerequisites: No
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

Solar Energy Conversion
Instructor: Boer, K. W. (302)738-8048
Department: Mechanical and Aerospace Engineering
Program: Applied Science, Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 6.0 (Semester)
C.E.U.'s: 6.0
Duration: No. of weeks: 34.0 Hrs. per week: 3.0
Contact Hours: 102.0
Classroom: 102.0
Offered: Evening
Course Fee: Resident: $39.00 Non Resident: $92.00
Prerequisites: No
Topics Covered Extensively: Photovoltaics and Solar Cells

Solar Related Courses

Energy Policy and Administration
Course Number: PSC 467/667
Instructor: Sylves, Richard T. (302)738-2355 EXT.27
Department: Political Science and Urban Affairs
Student Level: College Junior/Senior; Managerial; Professional
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 28.0
Seminar: 14.0
Offered: Day
Course Fee: Resident: $117.00 Non Resident: $276.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Solar Energy Policy Development; Solar Law/Legislation

Energy Systems
Course Number: EE 433
Instructor: Fagen, Edward A. (302)738-1164
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $117.00 Non Resident: $276.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Photovoltaic Solar Cells
Course Number: EE467/567
Instructor: Rothwarf, Allen (302)995-7155
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $117.00 Non Resident: $276.00
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

Solar Thermal Conversion
Course Number: 607
Instructor: Guceri, Selcuk I. (302)738-8160
Department: Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 13.0 Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Day
Course Fee: Resident: $117.00 Non Resident: $276.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Systems Design

Junior and Community Colleges

DELAWARE TECHNICAL AND COMMUNITY COLLEGE TERRY CAMPUS

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

Solar Technical Training

Energy Education and Awareness

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

Program and Curriculum Related Courses

Alternate Forms of Energy

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

Building Solar Equipment

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

Solar Energy Clinic

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

Vocational / Technical Schools

ENERGY CONSERVATION AND SOLAR APPLICATION TRAINING CENTER

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

Solar Technical Training

Solar Applications

Degree: Certificate
Design, Installation, Maintenance
Contact: Paul, Charles A.
(302)995-6174

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

Program and Curriculum Related Courses

Design of Systems

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

Hot Water - Installation of Domestic Systems

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

Installation of Solar Heating Systems

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

Solar Heating of Buildings

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

Solar Related Courses

Solar Installation Workshop for Vocational Educators

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

District of Columbia

Colleges and Universities

CAMPUS-FREE COLLEGE

2025 Eye Street NW
Washington, DC 20006
(202)347-0721 (029026)

Solar Curriculum

Individualized Degree Program
Degree: Master, Bachelor, Associate
Contact: Rosenman, Mark (202)293-4858
Program Training: Solar Energy Education; Solar Energy Administration/Policy

CATHOLIC UNIVERSITY OF AMERICA

Washington, DC 20064
(202)635-5000 (001437)

Solar Related Courses

Graduate Research in Solar Energy *
Department: Chemical Engineering

Solar Energy and Thermal Radiation
Course Number: ME 526
Instructor: Deshpande (202)635-5170
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 33.0
Independent Study: 6.0
Lab: 3.0
Offered: Evening
Course Fee: Resident: $400.00
Non Resident: $400.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

GEORGE WASHINGTON UNIVERSITY

725 23rd Street NW
Washington, DC 20052
(202)676-6000 (001444)

Tuition (Full Time):

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

Solar Related Courses

Energy Technology II
Course Number: ME 250
Instructor: Cambel, Ali B. (202)676-6749
Department: Civil, Mech. and Environ. Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $330.00
Non Resident: $330.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy

Solar Heating and Cooling Systems
Course Number: ME 259
Instructor: Kiper, Ali M. (202)676-7152
Department: Civil, Mech. and Environ. Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $330.00
Non Resident: $330.00
Prerequisites: Yes
Topics Covered Extensively: Solar Cooling; Solar Heating

HOWARD UNIVERSITY

Washington, DC 20059
(202)636-6040 (001448)

Solar Related Courses

Energy and Power *
Course Number: 304/428
Instructor: Walker, M. L. (202)636-6565
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Materials; Photovoltaics and Solar Cells

Process Engineering in Energy Systems *
Course Number: 306/413
Instructor: Rao, M. Gopala (202)636-6624
Department: Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems

Vocational / Technical Schools

NATIONAL RADIO INSTITUTE

3939 Wisconsin Avenue
Washington, DC 20016
(202)244-1600 (060229)

Solar Technical Training

Air Conditioning, Refrigeration, and Heating
Degree: Certificate
Contact: Dasenbrock, David (202)244-1600 EXT.241
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Do-It-Yourself/Home Installation

Other Educational Institutions and Organizations

GRADUATE SCHOOL, UNITED STATES DEPARTMENT OF AGRICULTURE

14th and Independence Avenue, SW
Washington, D.C. 20250
(202)447-5885 (061404)
Non Resident: $57.00

Solar Related Courses

Residential Solar System Design
Course Number: E ENVS 550
Instructor: Beckman, T. Shoales, H.
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Non Resident: $57.00
Prerequisites: No

Florida

Colleges and Universities

BARRY COLLEGE

Miami, FL 33161
(305)758-3392 (001466)

Solar Related Courses

Energy Economics *

Course Number: ECO 302
Instructor: Wryman, Mark
(305)754-7233
Department: Continuing Education
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Energy Policy Development; Solar Home Construction; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Cooling; Wind Energy Conversion Systems

FLORIDA INSTITUTE OF TECHNOLOGY

Melbourne, FL 32901
(305)723-3701 (001469)

Curriculum with Solar Study

Mechanical Engineering
Degree: Master
Mechanical Engineering
Department: Mechanical Engineering
Contact: Bowman, Thomas E.
(305)723-3701 EXT.245
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Design of Solar Conversion Systems
Course Number: ME 5037
Instructor: Bowman, T. E.
(305)723-3701
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $223.50
Non Resident: $223.50
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Solar Systems Design

Principles of Solar Energy Conversion
Course Number: ME 5035
Instructor: Bowman, T. E.
(305)723-3701
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $223.50
Non Resident: $223.50
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

Solar Energy Conversion Systems
Course Number: ME 5036
Instructor: Bowman, T. E.
(305)723-3701
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $223.50
Non Resident: $223.50
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Solar Cooling; Solar Domestic Hot Water; Solar Marketing/Economic Analysis

FLORIDA INTERNATIONAL UNIVERSITY

Miami, FL 33199
(305)552-2731 (009635)

Curriculum with Solar Study

Solar Energy Technology *
Degree: Master
Science
Contact: Leonard, Rene J.
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Energy *
Instructor: Leonard, Rene J.
(305)552-2807
Department: Technology
Program: Solar Energy Technology *
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Energy Systems *
Instructor: Leonard, Rene J.
(305)552-2807
Department: Technology
Program: Solar Energy Technology *
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Solar Energy in Building Design *
Instructor: Leonard, Rene J.
(305)552-2807
Department: Technology
Program: Solar Energy Technology *
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

UNIVERSITY OF CENTRAL FLORIDA

College of Engineering
Orlando, FL 32816
(305)275-2156 (003954)

Solar Related Courses

Solar Energy Systems
Course Number: EML 6416
Instructor: Eno, Burton E.
(305)275-2416
Evans, Ronald D.
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Components-Solar; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF FLORIDA

Gainesville, FL 32611
(904)392-3261 (001535)

Curriculum with Solar Study

Direct Energy Conversion Program
Degree: Doctorate, Master, Bachelor
Department: Electrical Engineering
Contact: Bailey, Robert L.
(904)392-0916
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Direct Energy Conversion, Engineering I
Course Number: EGN 4730
Instructor: Bailey, Robert L.
(904)392-0916
Department: Engineering
Program: Direct Energy Conversion Program
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer

Direct Energy Conversion, Engineering II
Course Number: EGN 4731
Instructor: Bailey, Robert L.
(904)392-0916
Department: Engineering
Program: Direct Energy Conversion Program
Academic Credits: 3.0 (Quarter)
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Direct Energy Conversion, Engineering Lab
Course Number: EGN 4732
Instructor: Bailey, Robert L. (904)392-0916
Department: Engineering
Program: Direct Energy Conversion Program
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Solar - Electric Engineering
Course Number: EGN 4735
Instructor: Bailey, Robert L. (904)392-0916
Department: Engineering
Program: Direct Energy Conversion Program
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Curriculum with Solar Study

Solar Energy Conversion and Energy Conversion Lab
Degree: Doctorate, Master, Bachelor
Engineering
Department: Engineering
Contact: Farber, Erich A. (904)392-0812
Program Training: Scientific Research and Development in Solar Energy; Engineering Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Direct Conversion of Solar Energy
Instructor: Farber, Erich A. (904)392-0812
Department: Engineering
Program: Solar Energy Conversion and Energy Conversion Lab
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Hybrid Systems; Materials; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Solar Cooling; Thermochemical Conversion; Wind Energy Conversion Systems

Solar Energy Conversion
Instructor: Farber, Erich A. (904)392-0812
Department: Engineering
Program: Solar Energy Conversion and Energy Conversion Lab
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

UNIVERSITY OF MIAMI

Coral Gables, FL 33124
(305)284-2211 (001536)

Solar Related Courses

Fundamentals of Solar Energy Utilization *
Course Number: MEN 510
Instructor: Puteat, L. (305)284-2571
Olsen, T.
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Heating; Solar Cooling

UNIVERSITY OF NORTH FLORIDA

Jacksonville, FL 32216
(904)646-2666 (000841)

Solar Related Courses

Energy: Past, Present, and Future *
Course Number: BSC 9930AB
Instructor: Bowman, Ray (904)646-2518
Department: Arts and Natural Sciences
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Topics Covered Extensively: Alternate Energy Sources

UNIVERSITY OF WEST FLORIDA

Pensacola, FL 32504
(904)476-9500 (003955)

Tuition (Full Time):

Resident: $330.00 Non Resident: $930.00

Curriculum with Solar Study

Public Administration, Natural Resources Management
Degree: Master
Public Administration
Department: Political Science
Contact: Skelton, Luther (904)476-9500 EXT.361
Program Training: Solar Energy Administration/ Policy

Program and Curriculum Related Courses

Energy Systems
Course Number: PAD 6934
Instructor: Salmon, Jack D. (904)476-9500
Department: Political Science
Program: Public Administration, Natural Resources Management
Student Level: College Graduate
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 25.0
Seminar: 25.0
Offered: Evening
Course Fee: Resident: $110.00
Non Resident: $310.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Solar Energy Policy Development; Solar Law/Legislation; Solar Systems Design; Wind Energy Conversion Systems

Junior and Community Colleges

BREVARD COMMUNITY COLLEGE

1519 Clearlake Road
Cocoa, FL 32922
(305)632-1111 (001470)

Solar Related Courses

Solar Energy Applications
Course Number: ETM 2103
Instructor: Stokes, Philip (305)632-1111 EXT.407
Department: Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Offered: Day
Course Fee: Resident: $42.00
Non Resident: $78.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Installation/Maintenance

DADE COMMUNITY COLLEGE AT MIAMI

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

Solar Energy Fundamentals *
Course Number: ETM 2706

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

Solar Energy Systems, Commerical *

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

Solar Energy Systems, Residential *

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

EDISON COMMUNITY COLLEGE

College Parkway
Fort Myers, FL 33901
(813)481-2121 (001477)

Tuition (Full Time):

Resident: $168.00 Non Resident: $340.00

Solar Related Courses

Alternate Energy Sources

Course Number: ISC 1454
Instructor: Werst, Lee (813)481-2121 EXT.258
Department: Basic Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $42.00; Non Resident: $87.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

FLORIDA JUNIOR COLLEGE AT JACKSONVILLE

22 West Church Street
Jacksonville, FL 32202
(904)358-1812 (001484)

Solar Related Courses

All You Want to Know About Solar Energy

Course Number: ECY 000GA
Instructor: Wright, Peter B. (904)757-6241
Department: Adult and Continuing Education
Student Level: College Graduate; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 6.0; Hrs. per week: 5.0
Contact Hours: 30.0
Offered: Evening
Course Fee: Resident: $4.00; Non Resident: $4.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Solar Systems Design

GULF COAST COMMUNITY COLLEGE

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

Curriculum with Solar Study

Solar Energy Solar Systems *

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

Program and Curriculum Related Courses

Solar Energy *

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

Solar Systems *

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

PENSACOLA JUNIOR COLLEGE

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

Solar Technical Training

Solar Energy Technology *

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

Program and Curriculum Related Courses

Residential Design and Installation *

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

SANTA FE COMMUNITY COLLEGE

Gainesville, FL 32601
(904)377-5161 (001519)

Solar Related Courses

Principles of Solar Heat *

Course Number: ACT 1840
Instructor: Roy, Russell (904)377-5161
Department: Industrial Education
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

TALLAHASSEE COMMUNITY COLLEGE

444 Appleyard Drive
Tallahassee, FL 32304
(904)576-5181 (001533)

Tuition (Full Time):
Resident: $132.00 Non Resident: $264.00

Solar Related Courses

Energy and Its Environmental Effects
Course Number: PHY 1020
Instructor: Whitton, Etta Mae (904)576-5181 EXT.252
Department: Science, Math
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $33.00; Non Resident: $66.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Vocational / Technical Schools

PINELLAS VOCATIONAL TECHNICAL INSTITUTE

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

Tuition (Full Time):
Resident: $39.00 Non Resident: $88.00

Solar Technical Training

Air Conditioning and Plumbing
Degree: Certificate
Department: Air Conditioning
Contact: Sprecher, Clarence (813)531-3501 EXT.256
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy
Course Number: 721
Course Number: (813)531-3531 EXT.256
Department: Air Conditioning
Program: Air Conditioning and Plumbing
Student Level: Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 6.0; Hrs. per week: 10.0
Contact Hours: 86.0
Classroom: 50.0
Lab: 36.0
Offered: Day, Evening
Course Fee: Resident: $8.00; Non Resident: $58.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

SAINT AUGUSTINE TECHNICAL CENTER

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

Tuition (Full Time):
Resident: $125.00

Solar Technical Training

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

Program and Curriculum Related Courses

Solar Energy Technology
Course Number: 9923
Instructor: Stratmann, Charles (904)824-4401 EXT.58
Program: Solar Energy Technology
Student Level: Skilled Labor
Duration: No. of weeks: 72.0; Hrs. per week: 30.0
Contact Hours: 2160.0
Classroom: 1080.0
Lab: 1080.0
Offered: Day
Course Fee: Resident: $245.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Thermochemical Conversion; Wind Energy Conversion Systems

SOUTH FLORIDA TECHNICAL INSTITUTE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

Other Educational Institutions and Organizations

FLORIDA SOLAR ENERGY CENTER

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

Solar Technical Training

Energy Education for Educators
Program Training: Solar Energy Education

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

Georgia

Colleges and Universities

BRENAU COLLEGE

Gainesville, GA 30501
(404)532-4341 (001556)

Solar Related Courses

Ecology *

Course Number:	BY 303
Instructor:	Andrews, Charles L. (404)532-4341
Department:	Math/Sciences
Student Level:	College Freshman/Sophomore
Academic Credits:	5.0
Duration:	No. of weeks: 10.0 Hrs. per week: 6.0
Contact Hours:	60.0
Classroom:	40.0
Lab:	20.0

GEORGIA INSTITUTE OF TECHNOLOGY MAIN CAMPUS

Atlanta, GA 30332
(404)894-2000 (001569)

Solar Related Courses

Solar Energy Engineering *

Course Number:	ME 6360
Instructor:	Williams, J. Richard (404)894-3351
Department:	Mechanical Engineering
Student Level:	College Junior/Senior
Academic Credits:	3.0
Duration:	No. of weeks: 11.0 Hrs. per week: 3.0
Contact Hours:	36.0
Classroom:	30.0
Lab:	6.0

Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/ Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Heating; Solar Cooling

SOUTHERN TECHNICAL INSTITUTE

534 Clay Street
Marietta, GA 30060
(404)424-7200 (001570)

Tuition (Full Time):
Resident: $178.00 Non Resident: $440.00

Solar Related Courses

Solar Heating and Cooling of Residences

Course Number:	AET 444
Instructor:	Newman, W. S. (404)424-7255
Department:	Architectural Engineering Technology
Student Level:	College Junior/Senior
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 9.0
Contact Hours:	90.0
Classroom:	30.0
Lab:	60.0
Offered:	Day; Evening
Course Fee:	Resident: $65.00 Non Resident: $175.00
Prerequisites:	No

Topics Covered Extensively: Solar Heating; Solar Systems Design

UNIVERSITY OF GEORGIA

Athens, GA 30602
(404)542-3030 (001598)

Solar Related Courses

Architecture Design Studio (Introductory Architecture) *

Course Number:	LAR 320
Instructor:	Linley, J. W. (404)542-1816 Wahl, Michael
Department:	Environmental Design
Student Level:	College Junior/Senior
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours:	50.0
Classroom:	10.0
Lab:	40.0
Prerequisites:	Yes

Design of Alternate Energy Systems

Course Number:	AEN 449/649
Instructor:	McLendon, B. D. (404)542-1653
Department:	Agricultural Engineering
Student Level:	College Junior/Senior
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 6.0
Contact Hours:	60.0
Classroom:	40.0
Lab:	20.0
Offered:	Day
Course Fee:	Resident: $124.00 Non Resident: $179.00
Prerequisites:	Yes

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation; Wind Energy Conversion Systems

Landscape Ecology *

Course Number:	LAR 323
Instructor:	Fisher, W. R. (404)542-1816
Department:	Environmental Design
Student Level:	College Graduate
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours:	50.0
Classroom:	10.0
Lab:	40.0
Prerequisites:	Yes

Nursery Management (Energetics)

Course Number:	HOR 363A
Instructor:	Tinga, Jake (404)542-2471
Department:	Horticulture
Student Level:	College Junior/Senior
Academic Credits:	2.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 2.0
Contact Hours:	20.0
Classroom:	10.0
Independent Study:	2.0
Lab:	8.0
Offered:	Day
Course Fee:	Resident: $50.00 Non Resident: $100.00
Prerequisites:	No

Public Policy: Energy and Environment

Course Number:	POL 451B
Instructor:	Regens, James L. (404)542-2057
Department:	Political Science
Student Level:	College Junior/Senior
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours:	50.0
Classroom:	30.0
Independent Study:	10.0
Lab:	10.0
Offered:	Day
Prerequisites:	No

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Solar Energy Policy Development; Solar Marketing/ Economic Analysis

Utilization of Renewable Energy Resources

Instructor:	McLendon, B. Derrell (404)549-7527
Department:	Agricultural Engineering
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours:	50.0
Classroom:	34.0
Lab:	16.0

Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Systems Design; Solar Systems Testing/ Evaluation

WEST GEORGIA COLLEGE

Maple Street
Carrollton, GA 30118
(404)834-1211 (001601)

Solar Related Courses

Energy Workshop

Instructor:	Scott, Vernon P. (404)834-1250
Department:	Geology
Student Level:	College Graduate
Academic Credits:	10.0 (Quarter)
Duration:	No. of weeks: 20.0 Hrs. per week: 5.0
Contact Hours:	100.0
Classroom:	50.0
Workshop:	50.0
Offered:	Evening
Prerequisites:	No

Topics Covered Extensively: Energy Conservation

Physics, Energy, and the Environment

Course Number:	270
Instructor:	Boyd, Herman W. (404)834-1375
Department:	Physics
Student Level:	College Graduate; College Freshman/Sophomore
Academic Credits:	5.0 (Quarter)
Duration:	No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours:	50.0
Classroom:	45.0
Independent Study:	5.0
Offered:	Day; Evening
Prerequisites:	Yes

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

Solar Energy for the Homeowner and Small Businessman

Georgia

Instructor: DeMayo, Ben
(404)834-1375
Department: Physics, Continuing Education
Student Level: All Levels; Layperson
C.E.U.'s: 2.0
Duration: No. of weeks: 6.0
Hrs. per week: 2.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Junior and Community Colleges

DEKALB COMMUNITY COLLEGE

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

Solar Technical Training

*Solar Heating **

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

Program and Curriculum Related Courses

*Solar Heating **

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

Vocational / Technical Schools

NORTH GEORGIA TECHNICAL & VOCATIONAL SCHOOL

Highway 197 North
Clarkesville, GA 30523
(404)754-2131 (060299)

Solar Related Courses

Heating and Plumbing

Instructor: Smith, Clifton
Department: Heating and Plumbing
Student Level: Skilled Labor
Duration: No. of weeks: 2.0
Hrs. per week: 30.0
Contact Hours: 60.0
Classroom: 20.0
Independent Study: 10.0
Job: 30.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Materials; Plumbing Techniques

Guam

Colleges and Universities

UNIVERSITY OF GUAM

Agana, GU 96910
(671)734-2921 (003935)

Tuition (Full Time):

Resident: $125.00 Non Resident: $250.00

Solar Related Courses

Solar Energy Seminar

Course Number: BI 691
Instructor: Smith, Douglas R.
(671)734-2921 EXT.361
Department: Biology
Student Level: College Graduate
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Seminar: 15.0
Offered: Evening
Course Fee: Resident: $10.00
Non Resident: $25.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Hawaii

Colleges and Universities

UNIVERSITY OF HAWAII

2525 Correa Road
Honolulu, HI 96822
(808)948-7837 (001610)

Solar Related Courses

Energy: Its Sources and Utilization

Course Number: ME 210
Department: Mechanical Engineering
Student Level: All Levels
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0

*Environmental Education **

Course Number: ED EF 686
Instructor: Boyer, William H.
(808)948-7817
Department: Education
Student Level: All Levels
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Meteorological Instruments and Observations

Course Number: MET 342
Instructor: Daniels, Anders
(808)948-7577
Department: Meteorology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $57.00
Non Resident: $144.00
Prerequisites: Yes
Topics Covered Extensively: Wind Energy Conversion Systems

Seminar on Solar Energy

Course Number: CE499AR477
Instructor: Garrett, Alfred J.
(808)948-7577
Department: Arts and Sciences, Meteorology
Student Level: College Junior/Senior; Professional
Academic Credits: 1.0 (Trimester)
Duration: No. of weeks: 14.0
Hrs. per week: 1.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Day
Course Fee: Resident: $57.00
Non Resident: $144.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

*Solar Energy & Architecture **

Course Number: ARCH 477
Instructor: Felicoff, W.
(808)948-6845
Department: Arts and Sciences, Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)

Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 17.0
Lab: 25.0
Topics Covered Extensively: Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Distributed Solar Power Systems; Wind Energy Conversion Systems

Junior and Community Colleges

MAUI COMMUNITY COLLEGE

310 Kaahumanu Avenue
Kahului, Maui, HI 96732
(808)244-9181 (001615)

Tuition (Full Time):
Resident: $40.00 Non Resident: $450.00

Solar Related Courses

Energy Conservation in the Condominium
Course Number: 20 C
Instructor: Young, Lafayette
(808)244-9181
Department: Vocational-Technical
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Workshop: 15.0
Offered: Evening
Course Fee: Resident: $7.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Materials; Solar Domestic Hot Water

Energy Conservation in the Home
Course Number: 20B
Instructor: Young, Lafayette
(808)244-9181
Department: Vocational-Technical
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Workshop: 15.0
Offered: Evening
Course Fee: Resident: $7.00
Non Resident: $76.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Materials; Solar Domestic Hot Water

UNIVERSITY OF HAWAII KAUAI COMMUNITY COLLEGE

Lihue, HI 96766
(808)245-8311 (001614)

Solar Related Courses

Alternate Sources of Energy *
Course Number: SCI 097
Instructor: Mock, Marshall
(808)245-8250
Department: Math, Science and Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0

Idaho

Colleges and Universities

IDAHO STATE UNIVERSITY

Box 8060
Pocatello, ID 83201
(208)236-0211 (001620)

Solar Related Courses

Introduction to Solar Energy, 299
Course Number: ENGR/PHYS 299
Instructor: Vegors, S.
(208)236-3647
Corey, L.
Student Level: Layperson; College Junior/ Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Introduction to Solar Energy, 111
Course Number: PHYS 111
Instructor: Vegors, Stanley
(208)236-3647
Department: Physics
Student Level: All Levels; Layperson
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Offered: Evening
Course Fee: Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Heating; Solar Home Construction; Solar Systems Design

UNIVERSITY OF IDAHO

Moscow, ID 83843
(208)885-6111 (001626)

Curriculum with Solar Study

Solar Energy *
Degree: Master, Doctorate, Bachelor
Mechanical, Electrical Engineering
Department: Mechanical Engineering
Contact: Warner, R. E.
(208)885-6579
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Solar Energy Systems *
Course Number: ME 435
Instructor: Warner, R. E.
(208)885-6579
Department: Mechanical Engineering

Program: Solar Energy *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 52.0
Lab: 2.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Curriculum with Solar Study

Power Technology
Degree: Bachelor
Department: Education, Industrial Education
Contact: Cassetto, James M. (208)885-6492
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternate Energy
Course Number: 350
Instructor: Cassetto, James (208)885-6492
Department: Education, Industrial Education
Program: Power Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 50.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $75.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Power Technology
Course Number: 316
Instructor: Cassetto, James (208)885-6492
Department: Education, Industrial Education
Program: Power Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Classroom: 54.0
Lab: 54.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $75.00
Prerequisites: No

Workshop Solar Energy Technology
Course Number: 403
Instructor: Cassetto, James (208)885-6492
Department: Education, Industrial Education
Program: Power Technology
Student Level: All Levels
Academic Credits: 1.0 (Semester)
C.E.U.'s: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 36.0
Contact Hours: 36.0
Classroom: 18.0
Lab: 18.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: No

Curriculum with Solar Study

Solar Energy Workshops *
Degree: Certificate
Department: Engineering; Industrial Education
Contact: Cassetto, James (208)885-6492

Program and Curriculum Related Courses

Alternate Energy Resources *
Course Number: ES 404
Instructor: Hager, Wayne (208)885-6438
Department: Engineering
Program: Solar Energy Workshops *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Marketing/Economic Analysis; Solar Systems Design

Direct Energy Conversion *
Course Number: EE 420
Instructor: Hagen, Jack I. (208)885-6555
Department: Electrical Engineering
Program: Solar Energy Workshops *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design

Solar Related Courses

Architecture - Solar Energy Design
Course Number: 404
Instructor: Eder, Anton (208)885-6272
Department: Art and Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Storage Systems; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Illinois

Colleges and Universities

BRADLEY UNIVERSITY

Peoria, IL 61625
(309)676-7611 (001641)

Tuition (Full Time):
Resident: $1,640.00 Non Resident: $1,640.00

Solar Related Courses

Solar Energy Applications
Course Number: ME 409
Instructor: Safdari, Y. B. (309)676-7611
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Independent Study: 10.0
Job: 5.0
Offered: Day
Course Fee: Resident: $85.00
Non Resident: $85.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Thermochemical Conversion

CHICAGO STATE UNIVERSITY

Chicago, IL 60628
(312)995-2000 (001694)

Solar Related Courses

Conservation of Energy Resources *
Course Number: 345
Instructor: Cutler, Irving (312)995-2186
Department: Geography
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems

Conservation of Natural Resources *
Course Number: 256
Instructor: Cutler, Irving (312)995-2186
Department: Geography
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems

Energy and Man *
Course Number: 101
Instructor: Treptow, Richard (312)995-2180

Department: Physical Sciences
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy

DEPAUL UNIVERSITY

2323 North Seminary
Chicago, IL 60614
(312)321-8000 (001671)

Solar Related Courses

Problems in a Technological Society - Practical Solar Energy for Homes *
Course Number: NSM 303
Instructor: Novak, R. L.
(312)321-8192
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 9.0
Hrs. per week: 3.0
Contact Hours: 27.0
Classroom: 27.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction

EASTERN ILLINOIS UNIVERSITY

Charleston, IL 61920
(217)581-3020 (001674)

Tuition (Full Time):

Resident: $395.20 Non Resident: $953.00

Solar Related Courses

Alternate Energy Systems
Course Number: 3933
Instructor: Kleine, Ric
(217)581-2721
Department: Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $93.00
Non Resident: $213.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

EUREKA COLLEGE

300 College Avenue
Eureka, IL 61530
(309)467-3721 (001678)

Tuition (Full Time):

Resident: $1,975.00 Non Resident: $1,975.00

Solar Related Courses

Undergraduate Science Research - Solar Energy
Course Number: PHSC 390
Instructor: Eichenberger, R. J.
(309)467-3721 EXT.240
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Eight Week Terms)
Duration: No. of weeks: 8.0
Hrs. per week: 5.0
Contact Hours: 40.0
Independent Study: 40.0
Offered: Day
Course Fee: Resident: $273.00
Non Resident: $273.00
Prerequisites: Yes
Topics Covered Extensively: Photoconversion

GOVERNORS STATE UNIVERSITY

Park Forest South, IL 60466
(312)534-5000 (009145)

Curriculum with Solar Study

Human - Environment Planning
Degree: Master, Bachelor
Planning
Department: Environmental Science
Program Training: Solar Energy Education; Solar Energy Administration/Policy

Program and Curriculum Related Courses

Applications of Appropriate Technology
Course Number: 5295
Instructor: Hagens, Beth
(312)534-5000 EXT.2455
Department: Environmental and Applied Sciences
Program: Human - Environment Planning
Student Level: College Junior/Senior
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 44.0
Seminar: 4.0
Workshop: 8.0
Lab: 4.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Home Construction; Solar Law/Legislation

Fundamentals of Appropriate Technology
Course Number: 6255
Instructor: Hagens, Beth
(312)534-5000
Department: Environmental and Applied Sciences
Program: Human - Environment Planning
Student Level: College Junior/Senior
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 50.0
Workshop: 10.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Testing/Evaluation

GREENVILLE COLLEGE

Greenville, IL 62246
(618)664-1840 (001684)

Solar Related Courses

Solar Energy *
Course Number: PHY 270
Instructor: Siefken, Hugh
(618)664-1840
Department: Physics
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 6.0
Hrs. per week: 18.0
Contact Hours: 108.0
Classroom: 45.0
Lab: 63.0

ILLINOIS INSTITUTE OF TECHNOLOGY

3300 South Federal Street
Chicago, IL 60616
(312)567-3189 (001691)

Curriculum with Solar Study

Energy Conscious Design *
Degree: Bachelor, Master Architecture
Department: Architecture
Contact: Sharpe, David C.
(312)567-3262
Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Energy Conscious Design I *
Course Number: ARCH 387
Instructor: Swenson, Alfred
(312)567-3262
Department: Architecture, Planning and Design
Program: Energy Conscious Design *
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 17.0
Hrs. per week: 2.0
Contact Hours: 34.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Passive Solar Systems; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Housing and Community Buildings *
Course Number: CRP 201
Department: City and Regional Planning
Program: Energy Conscious Design *
Student Level: All Levels
Academic Credits: 12.0 (Quarter)
Duration: No. of weeks: 34.0
Hrs. per week: 16.0
Contact Hours: 544.0
Topics Covered Extensively: Components-Solar; Passive Solar Systems; Solar Home Construction

Solar Related Courses

Solar Energy
Course Number: MMAE 459
Instructor: Lavan, Zalman
(312)567-3189
Department: Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening

Course Fee: Resident: $330.00
Non Resident: $330.00
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating

ILLINOIS STATE UNIVERSITY

Normal, IL 61761
(309)438-2111 (001692)

Curriculum with Solar Study

Technology for Industry - Energy
Degree: Bachelor
Department: Industrial Technology
Contact: Israel, Everett N.
(309)438-3661
Program Training: Solar Energy Education; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization

Program and Curriculum Related Courses

Passive Solar Technology
Course Number: 389
Instructor: Frances, C. Edward
(309)438-7862
Department: Industrial Technology
Program: Technology for Industry - Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 50.0
Independent Study: 10.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems

Solar Cooling and Heating
Course Number: 300 Level
Instructor: Frances, Edward
(309)438-7862
Department: Industrial Technology
Program: Technology for Industry - Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 60.0
Lab: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Workshop
Course Number: 300 Level
Instructor: Frances, Edward
(309)438-3661
Department: Industrial Technology
Program: Technology for Industry - Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 65.0
Seminar: 10.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems

NORTHERN ILLINOIS UNIVERSITY

De Kalb, IL 60115
(815)753-1000 (001737)

Solar Related Courses

Solar Energy Collection and Conversion *
Course Number: PHYS 432
Instructor: Shaffer, John C.
(815)753 1773
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design

Solar Energy Seminar
Course Number: IT 598U
Instructor: Comer, John C.
(815)753-1154
Department: Industry and Technology
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 4.0
Hrs. per week: 20.0
Contact Hours: 80.0
Classroom: 40.0
Independent Study: 15.0
Workshop: 15.0
Lab: 10.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Passive Solar Systems

NORTHWESTERN UNIVERSITY

Evanston, IL 60201
(312)492-3741 (001739)

Curriculum with Solar Study

Solar Energy Principles and Applications *
Engineering
Department: Chemical Engineering
Contact: Thodos, George

Program and Curriculum Related Courses

Solar Energy Principles and Applications *
Course Number: 710/C65
Instructor: Thodos, George
(312)492-3452
Department: Chemical Engineering
Program: Solar Energy Principles and Applications *
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Topics Covered Extensively: Introduction to Solar Energy; Components-Solar

PRINCIPIA COLLEGE

Elsah, IL 62028 (001744)

Solar Related Courses

Energy Efficient Living
Course Number: 172
Instructor: Holzberlein, Thomas
(618)374-2131
Department: Physics
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 10.0
Contact Hours: 100.0
Classroom: 80.0
Lab: 20.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction

Environmental Physics
Instructor: Holzberlein, Thomas
(618)374-2131
Department: Physics
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

SANGAMON STATE UNIVERSITY

Springfield, IL 62708
(217)786-6631 (000333)

Solar Related Courses

Solar Energy - Options for Illinois *
Course Number: PAC
Instructor: Casella, Al
(217)786-6630
Department: Physical Sciences
Student Level: College Junior/Senior
Academic Credits: 2.0
Duration: No. of weeks: 4.0
Hrs. per week: 8.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy - Principles and Applications *
Course Number: PHS 422
Instructor: Casella, Al
(217)786-6630
Department: Physical Sciences
Student Level: College Junior/Senior
Academic Credits: 5.0
Duration: No. of weeks: 16.0
Hrs. per week: 8.0
Contact Hours: 128.0
Classroom: 64.0
Lab: 64.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Component-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating; Solar Cooling

SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

Carbondale, IL 62901
(618)453-2121 (001758)

Tuition (Full Time):
Resident: $376.00 Non Resident: $900.00

Solar Related Courses

Solar Heating Design
Course Number: TEE407
Instructor: Kent, Albert (618)536-2396
Department: Engineering and Technology, Thermal and Environmental Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $130.00
Non Resident: $262.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Systems Design

SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE

Edwardsville, IL 62026
(618)692-2000 (001759)

Tuition (Full Time):
Resident: $230.00 Non Resident: $576.00

Solar Related Courses

Solar Energy
Instructor: Kokoropoulos, P. (618)692-2500
Department: Engineering, Technology
Student Level: Layperson
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 10.0
Field Trips: 5.0
Offered: Evening
Course Fee: Resident: $15.00
Non Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Topics in Applied Energy, 411B
Course Number: ENGR 441B
Instructor: Bollini, R. (618)692-2500
Kokoropoulos, P.
Department: Engineering, Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Course Fee: Resident: $87.00
Non Resident: $203.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Topics in Applied Energy, 441A
Course Number: ENGR 441A
Instructor: Bollini, R. (618)692-2500
Kokoropoulos, P.
Department: Engineering, Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Course Fee: Resident: $87.00
Non Resident: $203.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology

UNIVERSITY OF CHICAGO

5801 South Ellis Avenue
Chicago, IL 60637
(312)753-1234 (001774)

Tuition (Full Time):
Resident: $1,580.00

Solar Related Courses

Optics and Solar Energy
Course Number: Physics 280
Instructor: Winston, Roland (312)753-8654
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 1.0 (Quarter)
C.E.U.'s: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $700.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

P O Box 4348
Chicago, IL 60680
(312)996-3000 (001776)

Tuition (Full Time):
Resident: $290.00 Non Resident: $712.00

Solar Related Courses

Building Construction Systems
Course Number: ARCH 313
Instructor: Dudnik, Elliott (312)996-3335
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 6.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 15.0
Contact Hours: 150.0
Classroom: 90.0
Independent Study: 60.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Materials

*Solar Energy **
Course Number: ENRE 391
Instructor: Simon, H. A. (312)996-8530
Department: Engineering, Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

Urbana, IL 61801
(217)333-1000 (001775)

Curriculum with Solar Study

Architectural Practice Option
Degree: Master Architecture
Department: Architecture
Contact: Ding, G. Day (217)333-1330
Program Training: Architecture-Solar Specialization

Program and Curriculum Related Courses

Architectural Design Studio
Instructor: Bergeson, Donald (217)333-2848
Department: Architecture
Program: Architectural Practice Option
Student Level: All Levels
Academic Credits: 6.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 15.0
Contact Hours: 225.0
Offered: Day
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems

Solar Thermal Systems and Architectural Design
Course Number: 301S
Instructor: Bergeson, Donald (217)333-2848
Department: Architecture
Program: Architectural Practice Option
Student Level: College Graduate
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Independent Study: 30.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Law/Legislation; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Related Courses

Advanced Topics to Heat and Mass Transfer
Course Number: 488
Instructor: Alkire, Richard (217)333-0063
Department: Chemical Engineering
Student Level: College Graduate
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0

Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Electrochemical Engineering
Course Number: 388
Instructor: Alkire, Richard (217)333-0063
Department: Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Materials

Energy Alternatives and Societal Values *
Course Number: AAE 280
Instructor: Bond, Charles E. (217)367-8995
Department: Aeronautical and Astronautical Eng.
Student Level: All Levels
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Geology of Energy *
Course Number: 105
Instructor: Langenheim, R. L. (217)333-1338
Department: Geology
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes

Heat Transfer *
Course Number: ME 213
Instructor: Dunn, W. E. (217)333-3832
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Solar Systems Design

Solar Energy Utilization *
Course Number: ME 307
Instructor: Clausing, A. M. (217)333-0366
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design

Sun, Wind, Earth, and Sea *
Course Number: AAE 281
Instructor: Bond, Charles E. (217)367-8995
Department: Aeronautical and Astronautical Eng.
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Marketing/Economic Analysis; Wind Energy Conversion Systems

Junior and Community Colleges

BELLEVILLE AREA COLLEGE

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

Tuition (Full Time):

Resident: $14.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

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

COLLEGE OF DUPAGE

Glen Ellyn, IL 60137
(312)858-2800 (006656)

Solar Related Courses

Introduction to Solar Energy *
Department: Extension Division
Student Level: All Levels
Duration: No. of weeks: 3.0; Hrs. per week: 20.0
Contact Hours: 60.0
Classroom: 39.0
Lab: 21.0
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

ILLINOIS CENTRAL COLLEGE

East Peoria, IL 61635
(309)694-5011 (006753)

Solar Related Courses

Energy Alternatives *
Instructor: Brooks-Miller, D. L. (309)694-5403
Department: Agriculture - Ind. Occupation
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0

Residential Solar Energy Planning *
Instructor: Brooks-Miller, D. L. (309)694-5403
Department: Agriculture, Industrial Occupations
Student Level: All Levels
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0

ILLINOIS EASTERN COMMUNITY COLLEGE AT OLNEY

Olney, IL 62450
(618)395-4351 (001742)

Curriculum with Solar Study

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

Contact: Marrs, Steve
(618)395-4351

Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Energy Conservation Theory •
Course Number: SCI 121
Instructor: Culver, Ray
(618)395-4351
Department: Physics
Program: Construction Energy Program •
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design

Energy Systems in Construction •
Course Number: COT 172
Instructor: Parish, William
(618)395-4351
Department: Construction Trades
Program: Construction Energy Program •
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Wind Energy Conversion Systems

Gas and Arc Welding •
Course Number: AUM 282
Instructor: Jausel, Russ
(618)395-4351
Department: Welding
Program: Construction Energy Program •
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 12.0
Hrs. per week: 8.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Contact Hours: 72.0
Classroom: 48.0
Lab: 24.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Process Heat; Solar Heating; Wind Energy Conversion Systems

ILLINOIS EASTERN LINCOLN TRAIL COLLEGE

Robinson, IL 62454
(618)544-8657 (009788)

Solar Related Courses

Air Conditioning and Refrigeration - Load Calculation •
Course Number: ACR 272
Instructor: Harvey, Robert
(618)544-8657
Department: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 6.0
Hrs. per week: 12.0

JOHN A LOGAN COLLEGE

Carterville, IL 62918
(618)985-3741 (008076)

Tuition (Full Time):

Resident: $240.00

Solar Related Courses

Introduction to Solar Energy
Course Number: DRV 035A
Instructor: Ehrlich, Brent
(618)684-4110
Department: Adult and Continuing Education
Student Level: All Levels; Professional; Skilled Labor; Layperson
C.E.U.'s: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 14.0
Lab: 6.0
Offered: Evening
Course Fee: Resident: $13.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water

KANKAKEE COMMUNITY COLLEGE

P O Box 888
River Road
Kankakee, IL 60901
(815)933-9311 (007690)

Tuition (Full Time):

Resident: $39.00 Non Resident: $90.00

Solar Related Courses

Solar Energy Survey - Solar Heating and Cooling
Course Number: REFR 1413
Instructor: Mathers, Kris
(815)933-0345
Department: Vocational Technical
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $91.00

MCHENRY COUNTY COLLEGE

Route 14 & Lucas Road
Crystal Lake, IL 60014
(815)455-3700 (007691)

Solar Related Courses

Solar Energy Fundamentals
Course Number: HF792005 A
Instructor: Konitzer, John D.
(815)455-3700 EXT.222
Department: Natural Science
Student Level: All Levels; Layperson
C.E.U.'s: 1.0
Duration: No. of weeks: 4.0
Hrs. per week: 3.0
Contact Hours: 12.0
Classroom: 8.0
Lab: 4.0
Offered: Weekend
Course Fee: Resident: $15.00
Non Resident: $45.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

MORAINE VALLEY COMMUNITY COLLEGE

10900 South 88th Avenue
Palos Hills, IL 60465
(312)974-4300 (007692)

Tuition (Full Time):

Resident: $225.00

Solar Related Courses

Introduction to Solar Energy
Instructor: Zoller, Arlene
(312)974-4300 EXT.360
Department: Community Services
Student Level: Professional; Layperson
Contact Hours: 16.0
Classroom: 9.0
Workshop: 7.0
Offered: Evening
Course Fee: Resident: $45.00
Non Resident: $45.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

OAKTON COMMUNITY COLLEGE

7900 North Nagle Avenue
Morton Grove, IL 60053
(312)967-5120 (009898)

Tuition (Full Time):

Resident: $28.00 Non Resident: $28.00

Solar Related Courses

Solar Energy and Energy Conservation
Course Number: TEC E30
Instructor: Philip, Richard T.
(312)967-5120 EXT.415
Department: MONNACEP
Student Level: Layperson
Duration: No. of weeks: 8.0
Hrs. per week: 2.5
Contact Hours: 20.0
Classroom: 10.0
Seminar: 2.0
Independent Study: 4.0
Workshop: 4.0
Offered: Evening; Weekend
Course Fee: Resident: $28.00
Non Resident: $28.00
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

WILLIAM RAINEY HARPER COLLEGE

Palatine, IL 60067
(312)397-3000 (003981)

Solar Related Courses

Solar Energy Architecture *

Course Number: ATE 211
Instructor: Yohanan, Joseph (312)397-3000
Department: Architectural Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems

Indiana

Colleges and Universities

BALL STATE UNIVERSITY

Muncie, IN 47306
(317)289-1241 (001786)

Curriculum with Solar Study

Solar Energy

Department: Physics
Contact: Cusby, Ronald (317)285-1724

Program and Curriculum Related Courses

Applied Solar Energy III

Course Number: APHYS 424
Program: Solar Energy
Student Level: College Junior/Senior
Academic Credits: 4.0
Topics Covered Extensively: Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Materials; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Solar Marketing/Economic Analysis; Solar Systems Design; Thermochemical Conversion; Wind Energy Conversion Systems

Solar Engineering I

Course Number: APHYS 420
Department: Physics and Astronomy
Program: Solar Energy
Student Level: College Junior/Senior
Academic Credits: 4.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Engineering II

Course Number: APHYS 422
Department: Physics and Astronomy
Program: Solar Energy
Student Level: College Junior/Senior
Academic Credits: 4.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Related Courses

Solar Architecture for Architects *

Course Number: 498
Instructor: Koester, Robert J. (317)285-4955
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

EARLHAM COLLEGE

National Road West
Richmond, IN 47374
(317)962-6561 (001793)

Tuition (Full Time):

Resident: $1,867.00 Non Resident: $1,350.00

Solar Related Courses

Energy, Technology and Man

Course Number: Physics 10
Instructor: Hively, Ray (317)962-6561 EXT.518
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 40.0
Workshop: 10.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

HUNTINGTON COLLEGE

Huntington, IN 46750
(219)356-6000 (001803)

Tuition (Full Time):

Resident: $2,585.00

Solar Related Courses

Energy Alternatives: Solar Energy

Course Number: 207
Instructor: Smith, Gerald D. (219)356-6000
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 4.0; Hrs. per week: 15.0
Contact Hours: 60.0
Classroom: 40.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $290.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

INDIANA NORTHERN GRADUATE SCHOOL OF PROFESSIONAL MANAGEMENT

825 South Pennsylvania Street
Marion, IN 46952
(317)674-2900 (001806)

Tuition (Full Time):

Resident: $400.00 Non Resident: $400.00

Curriculum with Solar Study

Energy and Logistics

Degree: Master, Certificate Professional Management
Department: Fort Wayne Extension
Contact: Klima, K. (312)972-2284
Program Training: Architecture-Solar Specializatir Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar

Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Auditing for Managers
Course Number: 561
Instructor: Klima, K. (312)972-2284
Department: Fort Wayne Extension
Program: Energy and Logistics
Student Level: College Graduate; Managerial; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Weekend
Course Fee: Resident: $200.00; Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Process Heat; Solar Cooling; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Energy Conservation for Managers
Course Number: 560
Instructor: Klima, K. (312)972-2284
Department: Fort Wayne Extension
Program: Energy and Logistics
Student Level: College Graduate; Managerial; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Weekend
Course Fee: Resident: $200.00; Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Solar Cooling; Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

INDIANA PURDUE UNIVERSITY AT FORT WAYNE

2101 Coliseum Boulevard East
Fort Wayne, IN 46805
(219)482-5121 (001812)

Solar Related Courses

Solar Energy, Ready When You Are
Instructor: Johnson, Kenneth R. (219)482-5737
Department: Engineering, Continuing Education
Student Level: All Levels; Layperson
Duration: No. of weeks: 8.0; Hrs. per week: 2.5
Contact Hours: 20.0
Classroom: 20.0
Offered: Weekend
Course Fee: Resident: $75.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

Energy Conversion Processes
Course Number: 599
Instructor: Stevenson, K. L. (219)482-5540
Department: Chemistry
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Course Fee: Resident: $96
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Wind Energy Conversion Systems.

PURDUE UNIVERSITY

West Lafayette, IN 47907
(317)749-8111 (001826)

Solar Related Courses

*Aerodynamics of Wind Machines **
Course Number: 590 A
Instructor: Sullivan, J. (317)749-2400
Department: Aeronautics and Astronomy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Topics Covered Extensively: Heat and Energy Transfer; Wind Energy Conversion Systems

Direct Energy Conversion
Course Number: ME 530/EE 527
Instructor: Olsen, R. A. (317)494-1505
Department: Mechanical Engineering, Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 42.0
Lab: 3.0
Offered: Day
Course Fee: Resident: $99.00; Non Resident: $213.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Heat and Mass Transfer Related to Energy and Environment
Course Number: ME 527
Instructor: Incropera, F. P. (317)493-2820
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $99.00; Non Resident: $213.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Process Heat

*Properties of Solids **
Course Number: MSE 550
Instructor: Sato, H.
Department: Materials Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Materials

*Selection of Materials and Mechanical Functions **
Course Number: MSE 345
Instructor: Hruska, S. J. (317)493-1875
Department: Materials Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Prerequisites: Yes
Topics Covered Extensively: Materials

Solar Energy Systems: Advanced Concepts and Applications
Course Number: ME 495Z
Instructor: Koh, S. L. (317)494-1550
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 14.0
Lab: 1.0
Offered: Day
Course Fee: Resident: $33.00; Non Resident: $71.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Materials; Photoconversion; Photovoltaics and Solar Cells; Satellite Solar Power Systems

Solar Energy Systems: Fundamentals
Course Number: ME 495V
Instructor: Viskanta, R. (317)493-8190
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 14.0
Lab: 1.0
Offered: Day
Course Fee: Resident: $33.00; Non Resident: $71.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Solar Energy Systems: Heating and Cooling
Course Number: ME 495W
Instructor: Pearson, J. T. (317)494-4545
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 14.0
Lab: 1.0
Offered: Day
Course Fee: Resident: $33.00; Non Resident: $71.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 Wabash Avenue
Terre Haute, IN 47803
(812)877-1511 (001830)

Solar Related Courses

Independent Study
Course Number: CHE 490
Instructor: Caskey, Jerry A. (812)877-1511
Department: Chemical Engineering, Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Job: 20.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy
Course Number: ME 308
Instructor: Dekker, Don L. (812)877-1511
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $360.00; Non Resident: $360.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

TRI-STATE UNIVERSITY

Angola, IN 46703
(219)665-3141 (001839)

Tuition (Full Time):
Resident: $929.00 Non Resident: $929.00

Solar Related Courses

Future Energy Technology
Course Number: CHE 454
Instructor: Tucker, Henry (219)665-3141 EXT.250
Department: Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $240.00; Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat

UNIVERSITY OF NOTRE DAME

Notre Dame, IN 46556
(219)283-1122 (001840)

Solar Related Courses

Man and Energy - Alternatives to Atom and Coal *
Course Number: EE 213
Instructor: Berry, William B. (219)283-1122
Department: Electrical Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

Solid-State Energy Conversion *
Course Number: EE 466
Instructor: Berry, William B. (219)283-1122
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Introduction to Solar Energy; Photovoltaics and Solar Cells

Junior and Community Colleges

INDIANA VOCATIONAL TECHNICAL COLLEGE

1315 East Washington Street
Indianapolis, IN 46202
(317)635-6100 (009917)

Tuition (Full Time):
Resident: $188.00 Non Resident: $338.00

Solar Related Courses

Applied Design
Course Number: 7176
Instructor: Hilmes, Walter (317)635-6100 EXT.56
Department: Heat., Air Cond., and Refrig. Tech.
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0
Offered: Day; Evening
Course Fee: Resident: $50.00; Non Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Solar Heating

VINCENNES UNIVERSITY

Vincennes, IN 47591
(812)882-3350 (001843)

Solar Related Courses

Solar Heating and Cooling
Instructor: Riegle, Daryle (812)882-3350 EXT.295
Department: Physics and Engineering
Student Level: Professional; Skilled Labor; Layperson
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Solar Heating; Solar Systems Design

Vocational / Technical Schools

INDIANA VOCATIONAL TECHNICAL COLLEGE

3501 First Avenue
Evansville, IN 47710
(812)426-2865 (009925)

Solar Related Courses

Solar Heating and Cooling
Course Number: 7157
Instructor: Foster, Jerry (812)426-2865
Department: Heating, Air Cond. and Refrigeration
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 11.0
Lab: 22.0
Prerequisites: Yes

INDIANA VOCATIONAL TECHNICAL COLLEGE

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

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

Solar Related Courses

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

INDIANA VOCATIONAL TECHNICAL COLLEGE - NORTHWEST

Gary, IN 46409 (090040)

Solar Related Courses

Solar Energy Seminar *

Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 1.5
Contact Hours: 11.0
Topics Covered Extensively: Solar Energy Policy Development; Components-Solar; Solar Systems Design

INTERSTATE TECHNICAL INSTITUTE

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

Curriculum with Solar Study

Heating, Air Conditioning and Refrigeration

Degree: Certificate
Department: Heating, Air Cond., and Refrigeration
Contact: Dammann, Frank
(219)484-2504

Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial

ITT TECHNICAL INSTITUTE

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

Curriculum with Solar Study

Refrigeration, Heating and Air Conditioning

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

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

Iowa

Colleges and Universities

CORNELL COLLEGE

Mount Vernon, IA 52314
(319)895-8811 (001856)

Solar Related Courses

Energy Alternatives

Course Number: 7-228
Instructor: Dam, Cecil
(319)895-8811 EXT.165
Department: Physics
Academic Credits: 4.0 (Nine Terms Per Year)
Duration: No. of weeks: 3.5
Hrs. per week: 15.0
Contact Hours: 50.0
Classroom: 45.0
Field Trips: 5.0
Offered: Day
Course Fee: Resident: $590.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

DIVINE WORD COLLEGE

Epworth, IA 52045
(319)876-3354 (001858)

Solar Related Courses

Energy, Lecture and Laboratory *

Course Number: PHYS 321/2
Instructor: Tomuta, Liviu
(319)876-3354
Department: Science and Mathematics
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 45.0
Lab: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design; Solar Heating

Everybody's Physics *

Course Number: PHYS 158
Instructor: Tomuta, Liviu
(319)876-3354
Department: Science and Mathematics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 23.0
Lab: 22.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

DRAKE UNIVERSITY

25th Street & University Avenue
Des Moines, IA 50311
(515)271-2011 (001860)

Tuition (Full Time):
Resident: $1,840.00

Solar Related Courses

Solar Energy I

Course Number: Phy-Sci 189
Instructor: Downing, Harry
(515)271-3720
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
C.E.U.'s: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Evening
Course Fee: Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY

Ames, IA 50011
(515)294-4111 (001869)

Solar Related Courses

Advanced Thermal Environmental Engineering *

Course Number: ME 647
Instructor: Woods, James E.
(515)294-2342
Department: Engineering, Mechanical Engineering
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 11.0
Hrs. per week: 8.0
Contact Hours: 88.0
Classroom: 22.0
Lab: 66.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating

Solar Energy Building Design Studio-Workshop

Instructor: Kainlauri, Elno O.
(515)294-7112
Department: Architecture Extension
Topics Covered Extensively: Solar Home Construction

Solar Energy Thermal Systems *

Course Number: ME 528
Instructor: Woods, James E.
(515)294-2342
Department: Engineering, Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

LORAS COLLEGE

Dubuque, IA 52001
(319)588-7100 (001873)

Tuition (Full Time):
Resident: $1,250.00 Non Resident: $1,900.00

Solar Related Courses

Physics: Energy and the Environment
Course Number: 9
Instructor: Hutchinson, D. R. (314)588-7154
Department: Physics And Engineering Science
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Non Resident: $255.00
Prerequisites: No

LUTHER COLLEGE

Decorah, IA 52101
(319)387-2000 (001874)

Solar Related Courses

Solar Energy
Instructor: Nelson, David T. (319)387-1226
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 20.0
Contact Hours: 60.0
Classroom: 30.0
Independent Study: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $390.00
Non Resident: $390.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

UNIVERSITY OF DUBUQUE

2050 University Avenue
Dubuque, IA 52001
(319)557-2121 (001891)

Tuition (Full Time):
Resident: $2,550.00 Non Resident: $2,550.00

Solar Related Courses

Energy and Man
Course Number: NS028
Instructor: Straley, David B. (319)557-2305
Department: Biology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Field Trips: 5.0
Offered: Day
Course Fee: Resident: $255.00
Non Resident: $255.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Energy Policy Development

UNIVERSITY OF IOWA

Iowa City, IA 52242
(319)353-2121 (001892)

Solar Related Courses

Chemistry and the Physics of the Environment
Course Number: 29:005/11:25
Instructor: Frank, L. A.
Frank, C.
Department: Liberal Arts, Chemistry-Physics
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Introduction to Solar Energy

Methods of Direct Energy Conversion
Course Number: 545:176
Instructor: Lonngren, Karl (319)353-3030
Department: Electrical and Computer Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells

Solar and Terrestrial Physics
Course Number: 29:278
Academic Credits: 2.0
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy Applications
Course Number: 528:148
Instructor: Spencer, D. L. (319)353-4099
Department: Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.5
Contact Hours: 54.0
Classroom: 44.0
Lab: 10.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/Evaluation

Junior and Community Colleges

DES MOINES AREA COMMUNITY COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

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

Solar Related Courses

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

MUSCATINE COMMUNITY COLLEGE

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

Solar Curriculum

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

Program and Curriculum Related Courses

Solar Carpentry *
Instructor: Melander, Harry (319)263-8250
Department: Trades
Program: Solar Carpentry *
Student Level: All Levels

Academic Credits: 61.0 (Quarter)
Duration: No. of weeks: 46.0
Hrs. per week: 28.0
Contact Hours: 1288.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water

Solar Technical Training

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

Program and Curriculum Related Courses

Use of Solar Energy Homes - Homeowners, Builders
Course Number: 1031
Instructor: Ohlendorf, Vernon
(319)263-8250
Department: Community Education
Program: Use of Solar Energy
Student Level: All Levels; Layperson
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $18.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

WESTERN IOWA TECHNICAL COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $140.00 Non Resident: $280.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

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

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

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

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

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

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

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

Vocational / Technical Schools

NORTHWEST IOWA TECHNICAL COLLEGE

Highway 18 West
Sheldon, IA 51201
(712)324-2587 (060390)

Tuition (Full Time):

Resident: $150.00 Non Resident: $225.00

Solar Related Courses

Solar Heating and Cooling
Course Number: 37-516
Instructor: Sturdevant, Larry
(712)324-2587 EXT.78
Department: Construction
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 60.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction

SCOTT COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $150.00 Non Resident: $225.00

Solar Curriculum

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

Program and Curriculum Related Courses

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

Kansas

Colleges and Universities

BAKER UNIVERSITY

8th and Grove
Baldwin City, KS 66006
(913)594-6451 (001903)

Tuition (Full Time):
Resident: $1,200.00 Non Resident: $1,200.00

Solar Related Courses

Solar Energy
Course Number: NS 13
Instructor: Cyr, Raymond (913)594-6451
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $240.00; Non Resident: $240.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

BENEDICTINE COLLEGE

Atchison, KS 66002
(913)367-5100 (010256)

Solar Related Courses

Passive Solar Energy *
Instructor: Niles, Red
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 7.0; Hrs. per week: 2.0
Contact Hours: 14.0
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems

EMPORIA STATE UNIVERSITY

1200 Commercial Street
Emporia, KS 66801
(316)343-1200 (001927)

Tuition (Full Time):
Resident: $280.00 Non Resident: $580.00

Solar Related Courses

The Energy Crisis
Course Number: PS 520
Instructor: Backhus, DeWayne (316)343-1200
Department: Liberal Arts and Science, Physical Science
Student Level: College Junior/Senior; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Field Trips: 12.0
Offered: Day; Evening
Course Fee: Resident: $48.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Solar Home Construction

KANSAS STATE UNIVERSITY

Manhattan, KS 66506
(913)532-6011 (001928)

Curriculum with Solar Study

Architecture *
Degree: Bachelor Architecture
Department: Architecture and Design
Contact: Foerster, Bernd (913)532-5950
Program Training: Architecture-Solar Specialization

Program and Curriculum Related Courses

Architectural Design Studio 3 *
Course Number: 105-603
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 15.0
Contact Hours: 240.0
Lab: 240.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Architectural Design Studio 4 *
Course Number: 105-604
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 15.0
Contact Hours: 240.0
Lab: 240.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Architectural Design Studio 5 *
Course Number: 105-801
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 15.0
Contact Hours: 240.0
Lab: 240.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Basic Construction Technology *
Course Number: 104-290
Instructor: Chapman (913)532-5953
Department: Pre Design Professions
Program: Architecture *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes

Environmental Design Studio *
Course Number: 104-261
Instructor: Miller (913)532-5953
Department: Pre Design Professions
Program: Architecture *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Lab: 64.0
Prerequisites: Yes

Environmental Systems in Architecture *
Course Number: 105-515
Instructor: Jahnke, William R. (913)532-5950
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Components-Solar; Energy Conservation; Passive Solar Systems; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design

Environmental Systems in Architecture I *
Course Number: 105-413
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 8.0
Contact Hours: 64.0
Classroom: 48.0
Lab: 16.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

Theory of Design *
Course Number: 105-715
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Passive Solar Systems; Solar Cooling; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis

Topics in Building Construction Systems *

Course Number: 105-735
Instructor: Coates, Gary (913)532-5953
Department: Architecture
Program: Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Lab: 48.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Systems Design; Solar Systems Installation/Maintenance

Curriculum with Solar Study

Engineering with Solar Studies

Degree: Bachelor Engineering
Department: Engineering
Contact: Dean of Engineering (913)532-5590
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Direct Energy Conversion

Course Number: 580-750
Instructor: Merklin, Fred (913)532-5624
Department: Nuclear Engineering
Program: Engineering with Solar Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $43.00; Non Resident: $76.00
Prerequisites: Yes
Topics Covered Extensively: Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion

Solar Energy Thermal Processes

Course Number: 560-680
Instructor: Ball, Herb (913)532-5610
Department: Mechanical Engineering
Program: Engineering with Solar Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $43.00; Non Resident: $76.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Wind Engineering

Course Number: 530-681
Instructor: Johnson, Gary (913)532-5600
Department: Electrical Engineering
Program: Engineering with Solar Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $43.00; Non Resident: $76.00
Prerequisites: Yes
Topics Covered Extensively: Wind Energy Conversion Systems

Curriculum with Solar Study

Engineering Technology with Solar Studies

Degree: Bachelor Engineering Technology
Department: Engineering Technology
Contact: Gowdy (913)532-5617
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Introduction to Alternate Energy Sources

Course Number: 500-420
Instructor: Eckhoff, N. Dean (913)532-5624
Department: General Engineering
Program: Engineering Technology with Solar Studies
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $43.00; Non Resident: $76.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Principles of Solar Energy Conversion and Utilization

Course Number: 500-380
Instructor: Eckhoff, N. Dean (913)532-5624
Department: General Engineering
Program: Engineering Technology with Solar Studies
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $43.00; Non Resident: $76.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Solar Related Courses

Energy Use and Control I

Course Number: 505-520
Instructor: Clark, S. J. (913)532-5580
Department: Agricultural Engineering
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $117.00; Non Resident: $216.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Environmental Design of Farm Buildings

Course Number: 505-510
Instructor: Spillman, Charles K. (913)532-5580
Department: Agricultural Engineering
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $117.00; Non Resident: $216.00
Prerequisites: Yes
Topics Covered Extensively: Solar Heating; Solar Systems Design

PITTSBURG STATE UNIVERSITY

Pittsburg, KS 66762
(316)231-7000 (001926)

Solar Related Courses

Energy Efficiency Design *

Course Number: 736
Instructor: Hightower, Daniel L. (316)231-7000 EXT.393
Department: Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0; Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 45.0
Field Trips: 9.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Energy

Course Number: 740
Instructor: Backes, Robert J. (316)231-7000 EXT.294
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 45.0
Field Trips: 3.0
Offered: Evening
Course Fee: Resident: $40.00; Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photoconversion; Photovoltaics and Solar Cells; Solar Systems Design

TABOR COLLEGE

400 South Jefferson
Hillsboro, KS 67063
(316)947-3121 (001946)

Tuition (Full Time):

Resident: $1,260.00 Non Resident: $1,260.00

Solar Related Courses

Ecological Living

Course Number: BI22
Instructor: Terman, Max R. (316)947-3121 EXT.243
Department: Biology
Student Level: College Junior/Senior; Skilled Labor
Academic Credits: 4.0 (Four-One-Four)
C.E.U.'s: 4.0
Duration: No. of weeks: 4.0; Hrs. per week: 40.0
Contact Hours: 160.0
Classroom: 80.0
Seminar: 5.0
Independent Study: 30.0
Workshop: 5.0
Job: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $80.00; Non Resident: $80.00
Prerequisites: No

Topics Covered Extensively: Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Solar Cooling; Solar Domestic Hot Water; Wind Energy Conversion Systems

UNIVERSITY OF KANSAS

Lawrence, KS 66045
(913)864-2700 (001948)

Solar Related Courses

Local Energy Sources
Course Number: GEO 156
Instructor: DeMeo, James (913)864-3081; McColl, Robert
Department: Geology
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 11.0; Hrs. per week: 2.0
Contact Hours: 22.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Wind Energy Conversion Systems

Solar Energy
Course Number: ME 614
Instructor: Burmeister, Louis C. (913)864-3181
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 52.0
Classroom: 45.0
Independent Study: 7.0
Offered: Day
Course Fee: Resident: $92.00; Non Resident: $190.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy System Design *
Course Number: 731
Instructor: Dean, Thomas S. (913)864-4281
Department: Architecture
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Thermal Properties of Building Materials *
Course Number: 728
Instructor: Dean, Thomas S. (913)864-4281
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Heating

WICHITA STATE UNIVERSITY

1845 Fairmount
Wichita, KS 67208
(316)689-3456 (001950)

Solar Related Courses

Energy, Resources and Environment *
Course Number: 300G
Instructor: Gries, J. C. (316)689-3141; Berg, J. R.
Department: Geology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0

Institute Math and Proc. *
Course Number: I. E. 751
Instructor: Webb, Edgar (316)689-3350
Department: Industrial Education
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 4.0; Hrs. per week: 15.0
Contact Hours: 60.0
Classroom: 30.0
Field Trips: 30.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems

Petroleum Geology *
Course Number: 682
Instructor: Berg, J. R. (316)689-3141
Department: Geology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes

Special Topics *
Course Number: ME 751
Instructor: Graham, A. R. (316)689-3402
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Systems Design

Urban Alternate Energy Sources *
Course Number: 751
Instructor: Graham, A. R. (316)689-3402
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Junior and Community Colleges

BARTON COUNTY COMMUNITY COLLEGE

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

Solar Curriculum

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

Program and Curriculum Related Courses

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

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

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

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

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

DODGE CITY COMMUNITY COLLEGE

U S 50 Bypass & 14th Avenue
Dodge City, KS 67801
(316)225-1321 (001913)

Tuition (Full Time):

Resident: $228.00 Non Resident: $588.00

Solar Related Courses

Alternate Energy Sources

Course Number: Physics 101
Instructor: Albrecht, Ronald G. (316)225-1321 EXT.239
Department: Science, Math
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 36.0
Seminar: 6.0
Independent Study: 6.0
Offered: Evening
Course Fee: Resident: $39.00; Non Resident: $105.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water

GARDEN CITY COMMUNITY JUNIOR COLLEGE

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

Tuition (Full Time):

Resident; $24.00 Non Resident: $500.00

Solar Related Courses

Alternate Solar Energy

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

Solar Energy

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

KANSAS TECHNICAL INSTITUTE

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

Tuition (Full Time):

Resident: $173.00 Non Resident: $463.00

Curriculum with Solar Study

Solar Option

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

Program and Curriculum Related Courses

Introduction to Solar Energy Utilization

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

Solar System Design Technology I

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

Solar Systems Design Technology II

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

Other Educational Institutions and Organizations

UNIVERSITY FOR MAN

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

Solar Technical Training

Appropriate Technology

Program Training: Do-It-Yourself/Home Installation

Kentucky

Colleges and Universities

NORTHERN KENTUCKY UNIVERSITY

Highland Heights, KY 41076
(606)292-5100 (009275)

Tuition (Full Time):
Resident: $240.00 Non Resident: $625.00

Solar Related Courses

Solar Energy
Course Number: PHY 199
Instructor: McPherson, Mike (606)292-5409
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 40.0
Lab: 12.0
Offered: Evening
Course Fee: Resident: $75.00; Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy I
Course Number: PHY 299
Instructor: McPherson, Mike (606)292-5409
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 75.0
Classroom: 15.0
Lab: 60.0
Offered: Day
Course Fee: Resident: $75.00; Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF KENTUCKY

Lexington, KY 40506
(606)258-9000 (001989)

Solar Related Courses

Advanced Topics in Solar Energy
Course Number: ME 782/380
Instructor: Birkebak, R. C. (606)257-2712
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design

Solar Energy Systems
Course Number: ME/AEN 568
Instructor: Birkebak, R. C. (606)257-2712
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Offered: Day
Course Fee: Resident: $72.00; Non Resident: $207.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

Solar Housing Workshop
Course Number: 963
Instructor: Levine, Richard S. (606)272-6444
Department: Architecture
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 15.0
Seminar: 60.0
Workshop: 15.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems

WESTERN KENTUCKY UNIVERSITY

College Heights
Bowling Green, KY 42101
(502)745-0111 (002002)

Tuition (Full Time):
Resident: $250.00 Non Resident: $635.00

Solar Related Courses

Solar Fundamentals for Buildings
Course Number: ET 347
Instructor: Healey, Henry M. (502)745-2461
Department: Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $63.00; Non Resident: $126.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation

Louisiana

Colleges and Universities

LA STATE U AND A&M C

BATON ROUGE, LA 70803 (002010)

Solar Related Courses

*Mechanical Engineering Problems **
Course Number: 7933
Instructor: Arnas (504)388-5792 Maples
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design

LOUISIANA TECH UNIVERSITY

Ruston, LA 71272
(318)257-0211 (002008)

Tuition (Full Time):
Resident: $200.00 Non Resident: $400.00

Solar Related Courses

Solar Energy Design
Course Number: 442
Instructor: Harron, Randall F. (318)257-4141
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 3.3
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Solar Heating; Solar Systems Design

TULANE UNIVERSITY

New Orleans, LA 70118 (002024)

Tuition (Full Time):
Resident: $2,100.00 Non Resident: $2,100.00

Solar Related Courses

Solar Thermal Processes
Course Number: ME 619
Instructor: Hamilton, DeWitt C. (504)865-6176
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Offered: Day

Course Fee: Resident: $525.00
Non Resident: $525.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF NEW ORLEANS

New Orleans, LA 70122
(504)283-0600 (002015)

Solar Related Courses

Design of Solar Heating and Cooling Systems
Course Number: 4770
Instructor: Russo, Edwin P.
(504)283-0652
Department: Mechanical Engineering, Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

XAVIER UNIVERSITY OF NEW ORLEANS

Palmetto and Pine
New Orleans, LA 70125
(504)486-7411 (002032)

Tuition (Full Time):

Resident: $1,000.00 Non Resident: $1,000.00

Solar Related Courses

Advanced Solar Energy
Course Number: Physics 308
Instructor: Ioup, Juliette
(504)486-7411 EXT.341
Department: Physics, Pre-Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Lab: 5.0
Offered: Day
Course Fee: Resident: $250.00
Non Resident: $250.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Basic Solar Energy
Course Number: Physics 205
Instructor: Ioup, Juliette
(504)486-7411 EXT.341
Department: Physics, Pre-Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Lab: 5.0
Offered: Day
Course Fee: Resident: $250.00
Non Resident: $250.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Junior and Community Colleges

DELGADO JUNIOR COLLEGE

615 City Park Avenue
New Orleans, LA 70119
(504)486-7393 (004626)

Tuition (Full Time):

Resident: $170.00

Solar Related Courses

Applied Solar Energy
Course Number: MET 130
Instructor: Charbonnet, Larry
Department: Engineering
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 32.0
Independent Study: 10.0
Job: 3.0
Offered: Day; Evening
Course Fee: Resident: $70.00
Prerequisites: No

Maine

Colleges and Universities

BOWDOIN COLLEGE

Brunswick, ME 04011
(207)725-8731 (002038)

Tuition (Full Time):

Resident: $3,500.00 Non Resident: $3,500.00

Solar Related Courses

Energy
Course Number: Physics 14
Instructor: Chambers, Frank
(207)725-8731 EXT.606
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy

COLBY COLLEGE

Waterville, ME 04901
(207)873-1131 (002039)

Solar Related Courses

Energy Economics
Course Number: 217
Instructor: Tietenberg, Tom
(207)547-3339
Department: Economics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: Yes

COLLEGE OF THE ATLANTIC

Bar Harbor, ME 04609
(207)288-5015 (011385)

Curriculum with Solar Study

Environmental Design *
Degree: Bachelor
Human Ecology
Contact: Caivano, Roe
(207)284-5015
Program Training: Architecture-Solar Specialization; Solar Energy Education; Do-It-Yourself/Home Installation; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Alternate Energy *
Instructor: Lyman, Harris
Department: Environmental Design
Program: Environmental Design *

Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Passive Solar Systems; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

UNITY COLLEGE

Quaker Hill Road
Unity, ME 04988
(207)948-3131 (006858)

Solar Related Courses

Solar Energy

Course Number: ES Z103
Instructor: Morrison, Garrett (207)948-3131 EXT.211
Department: Environmental Science
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
C.E.U.'s: 3.0
Duration: No. of weeks: 3.0; Hrs. per week: 15.0
Contact Hours: 45.0
Classroom: 15.0
Seminar: 15.0
Workshop: 15.0
Offered: Day; Evening
Course Fee: Resident: $300.00; Non Resident: $30.00
Prerequisites: Yes
Topics Covered Extensively: Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Ocean Systems; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Plumbing Techniques; Process Heat; Satellite Solar Power Systems; Sheet Metal Techniques; Solar Cooling; Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/ Economic Analysis; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation; Thermochemical Conversion

UNIVERSITY OF MAINE

Orono, ME 04469
(207)581-7011 (002053)

Tuition (Full Time):

Resident: $470.00 Non Resident: $1,250.00

Solar Related Courses

Energy and Man

Course Number: AE 41
Instructor: Huff, Ed (207)581-7882; Smith, Norm
Department: Agricultural Engineering
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $30.00; Non Resident: $92.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Mechanical Engineering Laboratory

Course Number: ME 72
Instructor: Hill, Richard C. (207)581-7228
Department: Engineering and Science
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 13.0; Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Day
Course Fee: Resident: $60.00; Non Resident: $184.00
Prerequisites: Yes

UNIVERSITY OF MAINE AT FORT KENT

Pleasant Street
Fort Kent, ME 04743
(207)834-3162 (002041)

Tuition (Full Time):

Resident: $440.00 Non Resident: $1,360.00

Solar Related Courses

Energy Conservation and Alternate Sources

Course Number: ET 222
Instructor: Thiele, Eberhard (207)834-3162 EXT.207
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00; Non Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Junior and Community Colleges

BANGOR COMMUNITY COLLEGE OF THE UNIVERSITY OF MAINE

Bangor Hall
Bangor, ME 04401
(207)947-4930 (091060)

Solar Related Courses

Energy, Food, Shelter

Course Number: Science 12
Instructor: Lorber, Harvey R. (207)947-4930
Department: Natural Science and Mathematics
Student Level: All Levels; Skilled Labor; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Field Trips: 15.0
Offered: Evening; Weekend
Course Fee: Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Heating

Other Educational Institutions and Organizations

CORNERSTONES, WING SCHOOL OF SHELTER TECHNOLOGY

54 Cumberland St.
Brunswick, ME 04011 (090090)

Solar Technical Training

Cornerstones Owner - Builder School

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

Program and Curriculum Related Courses

Advanced New House

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

Energy Auditing

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

House Building For Women

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

Passive Solar Greenhouses

Course Number: E
Instructor: Karg, Rick (207)729-0540

Program: Cornerstones Owner - Builder School
Student Level: All Levels; Layperson
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 20.0
Job: 20.0
Offered: Day
Course Fee: Resident: $150.00
Topics Covered Extensively: Greenhouse Techniques; Passive Solar Systems; Solar Heating; Solar Systems Design

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

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

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

SHELTER INSTITUTE

38 Centre Street
Bath, ME 04530
(207)442-7938 (090240)
Non Resident: $300.00

Solar Related Courses

Basic Course
Instructor: Hennin, Patsy
(207)442-7938
Duration: No. of weeks: 3.0
Hrs. per week: 20.0
Contact Hours: 60.0
Offered: Day
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Passive Solar Systems; Plumbing Techniques; Solar Home Construction; Wind Energy Conversion Systems

Maryland

Colleges and Universities

LOYOLA COLLEGE

Baltimore, MD 21210
(301)323-1010 (002078)

Tuition (Full Time):
Resident: $1,325.00 Non Resident: $1,325.00

Solar Related Courses

Energy and Environment
Course Number: PH 150
Instructor: Haig, Frank R.
(301)323-1010
Department: Physics, Engineering, Computer Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $331.00
Non Resident: $331.00
Prerequisites: No

UNITED STATES NAVAL ACADEMY

Annapolis, MD 21402
(301)267-6100 (002101)

Solar Related Courses

Energy Conversion
Course Number: EM 443
Instructor: Wu, C.
(301)267-3186
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Contact Hours: 48.0
Classroom: 45.0
Lab: 3.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion; Wind Energy Conversion Systems

Ocean Energy Conversion
Course Number: EN 474
Instructor: McCormick, M. E.
(301)267-3873
Department: Naval Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Ocean Systems

UNIVERSITY OF MARYLAND

College Park Campus
College Park, MD 20742
(301)454-0100 (002103)

Curriculum with Solar Study

Mechanical Engineering - Solar Energy
Degree: Bachelor
Mechanical Engineering
Department: Mechanical Engineering
Contact: Cunniff, P. F.
(301)454-2410

Program and Curriculum Related Courses

Engineering Applications Solar Energy
Course Number: ENME 415
Instructor: Allen, R. W.
(301)454-4994
Department: Mechanical Engineering
Program: Mechanical Engineering - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Environmental Systems in Architecture
Course Number: ARCH 514
Instructor: Lord, David
(301)454-3428
Department: Architecture
Program: Mechanical Engineering - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 6.0
Contact Hours: 84.0
Classroom: 56.0
Lab: 28.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Solar Energy Applications in Buildings
Course Number: ENCS 414
Instructor: Allen, R. W.
(301)454-4994
Department: Mechanical Engineering
Program: Mechanical Engineering - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation

Junior and Community Colleges

ALLEGANY COMMUNITY COLLEGE

Cumberland, MD 21502
(301)724-7700 (002057)

Solar Related Courses

Industrial Systems I
Course Number: 203
Instructor: Myers, Robert W.
(301)724-7700
Department: Electromechanical
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 26.0
Independent Study: 38.0
Offered: Day
Prerequisites: Yes

Industrial Systems II
Course Number: 204
Instructor: Myers, Robert W.
(301)724-7700
Department: Electromechanical
Student Level: College Junior/Senior; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 26.0
Independent Study: 38.0
Offered: Day
Prerequisites: Yes

CECIL COMMUNITY COLLEGE

Rd 1
P O Box 57
North East, MD 21901
(301)287-6060 (008308)

Solar Related Courses

Designing an Energy Efficient Home
Course Number: 72.005
Instructor: Pezely, Joe
(301)000-7955
Department: Adult/Continuing Education
Student Level: All Levels
Duration: No. of weeks: 4.0
Hrs. per week: 2.5
Contact Hours: 10.0
Classroom: 10.0
Offered: Evening
Course Fee: Resident: $18.00
Non Resident: $18.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Materials; Passive Solar Systems

DUNDALK COMMUNITY COLLEGE

7200 Sollers Point Road
Baltimore, MD 21222
(301)282-6700 (009935)

Tuition (Full Time):
Resident: $22.50 Non Resident: $22.50

Solar Related Courses

Solar Energy: Installation and Maintenance
Instructor: Leddon, Jack
(301)282-6700
Department: Math and Science
Student Level: All Levels; Skilled Labor
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 15.0
Lab: 15.0
Offered: Day; Evening
Course Fee: Resident: $22.50
Non Resident: $22.50
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

HARFORD COMMUNITY COLLEGE

401 Thomas Run Road
Bel Air, MD 21014 (002075)

Solar Related Courses

Principles and Applications of Solar Energy
Course Number: 005
Instructor: Cooperstein, Bert
(301)838-1000 EXT.317
Department: Continuing Education
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 40.0
Lab: 8.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $60.00
Prerequisites: No
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating

MONTGOMERY COLLEGE

51 Mannakee Street
Rockville, MD 20850
(301)762-7400 (002082)

Tuition (Full Time):
Resident: $358.00 Non Resident: $770.00

Solar Related Courses

Energy - Scientific Aspect
Course Number: XC 121 Z18
Instructor: Davis, William
(301)279-5232
Department: Physics, Geoscience
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Seminar: 15.0
Offered: Day
Course Fee: Resident: $26.40
Non Resident: $55.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Vocational / Technical Schools

RETS ELECTRONIC SCHOOL

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

Tuition (Full Time):
Resident: $3,795.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

Massachusetts

Colleges and Universities

BOSTON COLLEGE

Chestnut Hill, MA 02107
(617)969-0100 (002128)

Solar Related Courses

Energy *
Course Number: CH 152
Instructor: de Bethune, Andre J.
Department: Art and Science, Evening College
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Wind Energy Conversion Systems

BRIDGEWATER STATE COLLEGE

Bridgewater, MA 02324
(617)697-8321 (002183)

Solar Related Courses

Solar Energy *
Course Number: GE 412
Instructor: Blackford, Paul A. (617)697-8321
Department: Earth Sciences and Geography
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

CLARK UNIVERSITY

Worcester, MA 02139
(617)793-7177 (002139)

Solar Related Courses

Alternative Energy Systems Laboratory *
Course Number: STS 132
Instructor: Gottlieb, Albert (617)793-7439
Department: Science, Technology and Society
Student Level: College Junior/Senior
Duration: No. of weeks: 14.0; Hrs. per week: 6.0
Contact Hours: 84.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Wind Energy Conversion Systems

Solar and Wind Energy for Home Use *
Course Number: ID 109
Instructor: Russell, John I. (617)852-3753
Department: Continuing Education
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Wind Energy Conversion Systems

Solar Energy *
Course Number: STS 131
Instructor: Davies, John
Department: Science, Technology, Society
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Heating

HAMPSHIRE COLLEGE

Amherst, MA 01002
(413)549-4600 (004861)
Non Resident: $6,500.00

Solar Related Courses

Energy and Environment
Course Number: NS 167
Instructor: Krass, Allan S. (413)549-4600 EXT.368
Department: Natural Science
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 12.0; Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 30.0
Independent Study: 18.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

HARVARD UNIVERSITY

Cambridge, MA 02138
(617)495-1000 (002155)

Solar Related Courses

Solar Heating: Basic Issues *
Instructor: Hapgood, William
Department: Center for Lifelong Learning
Student Level: All Levels
Duration: No. of weeks: 6.0; Hrs. per week: 2.0
Contact Hours: 12.0

MASSACHUSSETTS INSTITUTE OF TECHNOLOGY

77 Massachusetts Avenue
Cambridge, MA 02139
(617)253-1000 (002178)

Massachusetts

Curriculum with Solar Study

Building Technology
Degree: Master
Department: Architecture
Contact: Johnson, Timothy
(617)253-5965
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Design with Microclimate
Course Number: 4.071J
Instructor: Johnson, Tim
(617)253-5965
Department: Architecture
Program: Building Technology
Student Level: All Levels
Academic Credits: 12.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 6.0
Contact Hours: 78.0
Classroom: 39.0
Lab: 39.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating

Solar Architecture
Course Number: 4.46
Instructor: Vamosi, Steve
(617)253-5915
Johnson, Tim
Department: Architecture
Program: Building Technology
Student Level: All Levels
Academic Credits: 9.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 4.0
Contact Hours: 52.0
Classroom: 52.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Uses of Energy in Buildings
Course Number: 4.46
Instructor: Vamosi, Stephen
(617)253-7659
Johnson, T. E.
Department: Architecture
Program: Building Technology
Student Level: All Levels
Academic Credits: 9.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Materials; Passive Solar Systems; Plumbing Techniques

Solar Related Courses

*Energy **
Course Number: 22.08J
Instructor: Rose, D. J.
(617)253-3807
Bloomfield, L. P.
Department: Nuclear Engineering
Student Level: College Junior/Senior
Academic Credits: 12.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Solar Energy Policy Development; Solar Marketing/Economic Analysis

Energy Economics
Course Number: 14.22
Instructor: Teisberg, Thomas
(617)253-4559
Department: Economics
Student Level: All Levels
Academic Credits: 9.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $765.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Solar Energy Policy Development

*Energy Production from Renewable Resources **
Course Number: 2.63
Instructor: Fay, J. A.
(617)253-2236
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 12.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Energy Technology
Course Number: 10.80
Instructor: Howard, J. B.
(617)253-4574
Department: Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 9.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

*Materials for Advanced Energy Systems **
Course Number: 3.71J
Instructor: Bowen, H. K.
(617)253-6892
Adler, D.
Dresselhaus, M.
Department: Materials Science and Engineering
Student Level: College Junior/Senior
Academic Credits: 12.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells

*Solar Energy Systems **
Course Number: 6.725
Instructor: Pratt, G. W.
(617)253-4636
Thornton, R. D.
Department: Electrical Eng. and Computer Science
Student Level: College Junior/Senior
Academic Credits: 12.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Systems Design; Wind Energy Conversion Systems

NORTH ADAMS STATE COLLEGE

Church Street
North Adams, MA 01247
(413)664-4511 (002187)

Solar Related Courses

Alternate Energy Techniques
Course Number: PI 171
Instructor: Seeley, W.
(413)664-4511
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation

Energy Alternatives
Course Number: PI 172
Instructor: Seeley, W.
(413)664-4511 EXT.457
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 30.0
Lab: 12.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Energy Conservation and Management
Course Number: PI 171
Instructor: Seeley, W.
(413)664-4511 EXT.457
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Solar Energy Policy Development

NORTHEASTERN UNIVERSITY

360 Huntington Avenue
Boston, MA 02115
(617)437-2000 (002199)

Tuition (Full Time):
Resident: $1,200.00

Curriculum with Solar Study

Mechanical Engineering
Degree: Doctorate, Master, Bachelor
Mechanical Engineering
Department: Mechanical Engineering
Contact: Nowak, Welville B.
(617)437-2977

Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Heat and Mass Transfer
Course Number: 02.260
Instructor: Foster, Arthur R.
(617)437-3811
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $400.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

Solar Thermal Engineering I
Course Number: 02.855
Instructor: Foster, A. R.
(617)437-3811
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Evening
Course Fee: Resident: $177.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

Solar Thermal Engineering II
Course Number: 02.856
Instructor: Foster, A. R.
(617)437-3811
Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Evening
Course Fee: Resident: $177.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

Solar Related Courses

*Solar Water Heating, Space Heating, 310 **
Course Number: 93.310
Instructor: Smith, Robert O.
(617)965-5428
Meeker, J.
Department: Lincoln College
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

*Solar Water Heating, Space Heating, 311 **
Course Number: 93.311
Instructor: Smith, Robert O.
(617)965-5428
Meeker, J.
Department: Lincoln College
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

*The Energy Crisis: Solar Energy **
Course Number: 04.862
Instructor: Williams, John A.
(617)437-2991
Department: Chemical Engineering
Student Level: College Graduate
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 24.0
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Systems Design

SOUTHEASTERN MASSACHUSSETTS UNIVERSITY

North Dartmouth, MA 02747
(617)997-9321 (002210)

Tuition (Full Time):
Resident: $325.00 Non Resident: $1,243.00

Solar Related Courses

Energy and Energy Alternatives
Course Number: PH 163
Instructor: Bento, Robert
(617)999-8355
Department: Physics
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $109.00
Non Resident: $109.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Passive Solar Systems

Scientific and Social Aspects of Solar Energy
Course Number: PH 180
Instructor: Bento, Robert
(617)999-8355
Department: Physics
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $109.00
Prerequisites: No
Topics Covered Extensively: Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Wind Energy Conversion Systems

SPRINGFIELD COLLEGE

Springfield, MA 01109 (002211)

Tuition (Full Time):
Resident: $2,500.00 Non Resident: $2,500.00

Solar Related Courses

Energy
Course Number: 81/82/83
Instructor: Polito, Peter
(413)787-2084
Department: Physics
Student Level: All Levels
Academic Credits: 6.0 (Quarter)
Duration: No. of weeks: 30.0
Hrs. per week: 3.0
Contact Hours: 90.0
Classroom: 90.0
Offered: Day
Course Fee: Resident: $200.00
Non Resident: $200.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction

TUFTS UNIVERSITY

Medford, MA 02155
(617)628-5000 (002219)

Tuition (Full Time):
Resident: $250.00 Non Resident: $250.00

Solar Related Courses

Special Topics in Solar Engineering
Course Number: CHE 193
Instructor: Van Wormer, Kenneth A.
(617)628-5000 EXT.254
Department: Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 6.0
Hrs. per week: 7.0

Contact Hours: 42.0
Classroom: 35.0
Field Trips: 7.0
Offered: Evening
Course Fee: Resident: $250.00
Non Resident: $250.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF LOWELL

1 University Avenue
Lowell, MA 01854
(617)454-7811 (002161)

Tuition (Full Time):

Resident: $335.00 Non Resident: $725.00

Curriculum with Solar Study

Applied Physics - Solar Energy Option
Degree: Doctorate
Physics, Solar Energy Option
Department: Energy Engineering; Physics
Contact: Filippone, William
(617)452-5000 EXT.2744
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Energy
Course Number: 24-513
Instructor: Filippone, William
(617)452-5000 EXT.2744
Department: Energy Engineering
Program: Applied Physics - Solar Energy Option
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $100.50
Non Resident: $195.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Geothermal and Wind Energy Systems
Course Number: 24-529
Instructor: Sheff, James R.
(617)452-5000 EXT.2747
Department: Energy Engineering
Program: Applied Physics - Solar Energy Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

Solar Energy
Course Number: 24-425
Instructor: Filippone, William
(617)452-5000 EXT.2744
Department: Energy Engineering
Program: Applied Physics - Solar Energy Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems

Curriculum with Solar Study

Energy Engineering - Solar Option
Degree: Master
Energy Engineering-Solar Option
Department: Energy Engineering
Contact: Filippone, William
(617)452-5000 EXT.2744
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Energy
Course Number: 24-513
Instructor: Filippone, William
(617)452-5000 EXT.2744
Department: Energy Engineering
Program: Energy Engineering - Solar Option
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $100.50
Non Resident: $195.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Geothermal and Wind Energy Systems
Course Number: 24-529
Instructor: Sheff, James R.
(617)452-5000 EXT.2747
Department: Energy Engineering
Program: Energy Engineering - Solar Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

Solar Energy
Course Number: 24-425
Instructor: Filippone, William
(617)452-5000 EXT.2744
Department: Energy Engineering
Program: Energy Engineering - Solar Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems

UNIVERSITY OF MASSACHUSSETTS AMHERST CAMPUS

Amherst, MA 01003
(413)545-0111 (002221)

Tuition (Full Time):

Resident: $262.00 Non Resident: $1,075.00

Curriculum with Solar Study

Energy Program
Degree: Bachelor
Department: Mechanical Engineering
Contact: Cromack, Duane
(413)545-2756
Program Training: Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Engineering Wind Power Systems
Course Number: ME 573
Instructor: Cromack, Duane E.
(413)545-2756
Department: Mechanical Engineering
Program: Energy Program
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 37.0
Lab: 5.0
Offered: Day
Course Fee: Resident: $78.00
Non Resident: $322.00
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Solar and Direct Energy Conversion
Course Number: 570
Instructor: McGowan, J.
(413)545-2756
Department: Mechanical Engineering
Program: Energy Program
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 37.0
Independent Study: 5.0
Offered: Day
Course Fee: Resident: $78.00
Non Resident: $322.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Related Courses

Special Topics - Energy Alternatives
Course Number: 197B
Instructor: Mullin, William
(413)545-1944
Department: Physics
Student Level: All Levels
Academic Credits: 2.0 (Semester)

Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Day
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Solar Heating

Special Topics - Wind Power
Course Number: 197A
Instructor: Cook, Leroy (413)545-0594
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

WORCESTER POLY INSTITUTE

Worcester, MA 01609
(617)753-1411 (002233)

Solar Technical Training

Major Qualifying Project *
Degree: Bachelor Science
Contact: Bolz, R. E. (617)753-1411

WORCESTER STATE COLLEGE

486 Chandler Street
Worcester, MA 01602
(617)752-7700 (002190)

Tuition (Full Time):

Resident: $380.00 Non Resident: $1,130.00

Solar Related Courses

Energy in the Modern World
Course Number: NS 110-1
Instructor: Chapman, Harold (617)752-7700 EXT.267
Department: Natural Science and Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $155.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer

Energy Applications and Techniques
Course Number: NS8 - 404
Instructor: Kelley, Robert F. (617)752-7700 EXT.264
Department: Natural Science and Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 37.5
Lab: 37.5
Offered: Evening
Course Fee: Resident: $130.00
Non Resident: $151.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation; Thermochemical Conversion

Energy, Conservation, Management for Householder
Course Number: NS8 - 679
Instructor: Dick, Daniel E. (617)752-7700 EXT.136
Department: Natural Science and Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 38.0
Classroom: 38.0
Offered: Evening
Course Fee: Resident: $130.00
Non Resident: $151.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy

Mans Environment - The World of Energy
Course Number: NS 8230
Instructor: Chapman, Harold L. (617)752-7700 EXT.267
Department: Natural Science and Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 38.0
Classroom: 38.0
Offered: Evening
Course Fee: Resident: $130.00
Non Resident: $151.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems

Shelter, Design, Alternate Energy
Course Number: AR8 - 135
Instructor: Dick, Daniel E. (617)752-7700 EXT.136
Department: Art
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 38.0
Classroom: 38.0
Offered: Evening
Course Fee: Resident: $130.00
Non Resident: $151.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Home Construction

Junior and Community Colleges

BERKSHIRE COMMUNITY COLLEGE

West Street
Pittsfield, MA 01201
(413)499-4660 (002167)

Tuition (Full Time):

Resident: $150.00 Non Resident: $440.00

Solar Related Courses

Energy for Our Society
Course Number: ENT 209
Instructor: Wojtkowski, Anne Everest (413)499-4660
Department: Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $48.00
Non Resident: $111.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Introduction to Solar Energy; Ocean Systems; Solar Heating; Wind Energy Conversion Systems

BRISTOL COMMUNITY COLLEGE

777 Elsbree Street
Fall River, MA 02720
(617)678-2811 (002176)

Curriculum with Solar Study

Energy Systems Technology
Department: Engineering

BUNKER HILL COMMUNITY COLLEGE

Charlestown, MA 02129
(617)241-8600 (011210)

Solar Related Courses

Issues in Energy *
Instructor: Chisholm, Francis E. (617)241-8600
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

CAPE COD COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $160.00 Non Resident: $450.00

Curriculum with Solar Study

Energy Systems Technology
Degree: Associate Science and Technical
Department: Math; Science; Engineering and Industrial Related Tech.

Contact: Panitz, Ted
(617)362-2131 EXT.456
Program Training: Solar Energy Administration/Policy; General Contracting-Specialization in Solar Design/Installation

Program and Curriculum Related Courses

Energy Systems I - Survey of Energy Alternatives
Course Number: TE 130
Instructor: Panitz, Ted
(617)362-2131 EXT.456
Department: Industry Related Technologies
Program: Energy Systems Technology
Student Level: College Freshman/Sophomore; Managerial; Professional; Skilled Labor
Academic Credits: 3.0 (Semester)
C.E.U.'s: 60.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

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

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

FRANKLIN INSTITUTE OF BOSTON

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

Solar Related Courses

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

MIDDLESEX COMMUNITY COLLEGE

Springs Road
Bedford, MA 01730
(617)275-8910 (009936)

Tuition (Full Time):

Resident: $150.00

Solar Related Courses

Energy
Course Number: SC 122
Instructor: Shane, John
(617)276-8910 EXT.270
Department: Math and Science
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Independent Study: 25.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

NORTHERN ESSEX COMMUNITY COLLEGE

100 Elliott Street
Haverhill, MA 01830
(617)374-0721 (002174)

Tuition (Full Time):

Resident: $187.70 Non Resident: $755.20

Solar Related Courses

Solar Energy Seminar
Instructor: Ritter, Doris
(617)374-0721 EXT.245
Department: Continuing Education
Student Level: All Levels
Contact Hours: 4.0
Seminar: 4.0
Offered: Evening
Prerequisites: No

Vocational / Technical Schools

BLUE HILLS REGIONAL TECHNICAL INSTITUTE

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

Tuition (Full Time):

Resident: $275.00

Solar Related Courses

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

NEW ENGLAND FUEL INSTITUTE

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

Solar Technical Training

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

Program and Curriculum Related Courses

Solar Heating Installation and Maintenance Course
Instructor: Tavino, Ralph
(617)924-1000
Department: Education
Program: Solar Heating Installation and Maintenance
Student Level: Professional; Skilled Labor
Duration: No. of weeks: 4.0
Hrs. per week: 40.0
Contact Hours: 160.0
Classroom: 80.0
Lab: 80.0
Offered: Day; Evening
Course Fee: Resident: $500.00
Non Resident: $500.00
Prerequisites: No

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Heating Technology Course

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

NORTHEAST INSTITUTE OF INDUSTRIAL TECHNOLOGY

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

Tuition (Full Time):
Resident: $860.00

Solar Technical Training

Installing Solar Water Heaters

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

Program and Curriculum Related Courses

Installing Solar Water Heating

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

Other Educational Institutions and Organizations

BOSTON ARCHITECTURAL CENTER

320 Newbury St.
Boston, MA 02115 (090190)

Solar Related Courses

Solar Energy: Applications to Building

Instructor: Smith, Robert
Department: Extension
C.E.U.'s: 1.5
Offered: Day
Course Fee: Resident: $95.00
Topics Covered Extensively: Components-Solar; Passive Solar Systems; Solar Heating; Solar Systems Design

HEARTWOOD OWNER-BUILDER SCHOOL INCORPORATED

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

Tuition (Full Time):
Resident: $500.00 Non Resident: $300.00

Solar Related Courses

Designing and Building Your Own Energy Efficient Home

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

Michigan

Colleges and Universities

CENTRAL MICHIGAN UNIVERSITY

Mount Pleasant, MI 48858
(517)774-3151 (002243)

Tuition (Full Time):
Resident: $29.00 Non Resident: $73.00

Solar Related Courses

Alternate Energy Systems

Course Number: IET 597
Instructor: Ecker, Louis
(517)774-3996
Department: Industrial Education and Technology
Student Level: All Levels; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design; Wind Energy Conversion Systems

EASTERN MICHIGAN UNIVERSITY

Ypsilanti, MI 48197
(313)487-1849 (002259)

Solar Related Courses

Solar Energy Applications in Construction

Course Number: IED 539
Instructor: Kicklighter, Clois E.
(313)487-4330
Department: Industrial Technology
Student Level: College Junior/Senior
Academic Credits: 2.0 (Trimester)
Duration: No. of weeks: 2.0
Hrs. per week: 15.0
Contact Hours: 30.0
Classroom: 15.0
Lab: 15.0
Offered: Day
Course Fee: Resident: $39.00
Non Resident: $95.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

FERRIS STATE COLLEGE

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

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

Curriculum with Solar Study

Refrigeration, Heating and Air Conditioning Technology

Degree: Associate
Refrigeration, Heating, and Air Conditioning
Department: Technical and Applied Arts; Construction
Contact: Shane, James B.
(616)796-9971

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

Program and Curriculum Related Courses

Advanced Air Conditioning

Course Number: RHA 263
Instructor: Nott, Joe
(616)796-9971
Department: Construction
Program: Refrigeration, Heating and Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 20.0
Contact Hours: 200.0
Classroom: 50.0
Lab: 150.0
Offered: Day
Prerequisites: Yes

Heating

Course Number: RHA 202
Instructor: Stevens, Russ
(616)796-9971
Department: Construction
Program: Refrigeration, Heating and Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 9.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 20.0
Contact Hours: 200.0
Classroom: 50.0
Lab: 150.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Summer Air Conditioning

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

Solar Related Courses

Energy Conservation in Building Design

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

Energy Use and Conservation

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

GENERAL MOTORS INSTITUTE

Flint, MI 48502 (002262)

Solar Technical Training

Solar Energy

Degree: Certificate
Continuing Engineering Education
Department: Mechanical Engineering
Contact: Brink, Michael
(313)766-6047

Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Solar Energy

Course Number: EIS 0310
Instructor: Brink, Michael
(810)766-6047
Department: Mechanical Engineering
Program: Solar Energy
Student Level: College Graduate
Duration: No. of weeks: 1.0
Hrs. per week: 24.0
Contact Hours: 24.0
Classroom: 21.0
Lab: 3.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Building and Facility Design

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

GRAND VALLEY STATE COLLEGES

College Landing
Allendale, MI 49401
(616)895-6611 (002268)

Tuition (Full Time):
Resident: $216.00 Non Resident: $492.00

Curriculum with Solar Study

Alternate Energy Emphasis - Urban, Environmental Studies

Degree: Bachelor
Urban and Environmental Studies, Alternate Energy
Department: William James College
Contact: Bailey, Rod
(616)895-6611

Program Training: Solar Energy Education; Solar System Installation-Residential; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Alternative Energy Systems

Course Number: 1579
Instructor: Bailey, Rod
(616)895-6611
Department: William James College
Program: Alternate Energy Emphasis - Urban, Environmental Studies
Student Level: All Levels
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Offered: Day; Evening
Course Fee: Resident: $90.00
Non Resident: $205.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Environmental Design: Passive Solar Structures

Course Number: WJC 1656
Instructor: Bailey, Rod
(616)895-6611 EXT.146
Department: William James College
Program: Alternate Energy Emphasis - Urban, Environmental Studies
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $54.00
Non Resident: $123.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Syster Greenhouse Techniques; Passive Solar Systems; Solar Heating; Solar Home Construction

Solar Energy System Design

Course Number: 1734

Instructor: Bailey, Rod (616)895-6611
Department: William James College
Program: Alternate Energy Emphasis - Urban, Environmental Studies
Student Level: All Levels
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 25.0
Lab: 25.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $90.00 Non Resident: $205.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Wind Energy System Design and Construction

Course Number: WJC 1851
Instructor: Bailey, Rod (616)895-6611 EXT.146
Department: William James College
Program: Alternate Energy Emphasis - Urban, Environmental Studies
Student Level: All Levels
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 10.0
Workshop: 40.0
Offered: Day
Course Fee: Resident: $90.00 Non Resident: $205.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Wind Energy Conversion Systems

JORDAN COLLEGE

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

Tuition (Full Time):

Resident: $600.00 Non Resident: $600.00

Solar Curriculum

Alternate Energy

Degree: Bachelor
Alternate Energy
Department: Alternate Energy
Contact: Slykhouse, Thomas (616)696-1180

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

Program and Curriculum Related Courses

Advanced Design of Alternate Energy Systems

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

Biomass

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

Design of Alternate Energy Systems

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

Geo-Physical Energies

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

Solar I

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

Solar II

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

Wind Energy Conversion Systems

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

Curriculum with Solar Study

Appropriate Technology

Degree: Bachelor
Alternate Energy
Department: Environmental Science
Contact: Lewis, Russell E. (616)696-2230

Program Training: Solar Energy Education; Solar Energy Administration/Policy

Program and Curriculum Related Courses

Appropriate Technology

Course Number: ID 430
Instructor: Lewis, Russell (616)696-2230
Department: Inter-Departmental Offering
Program: Appropriate Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)

Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 35.0
Independent Study: 10.0
Offered: Day; Evening
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology

Curriculum with Solar Study

Energy Efficient Construction Design

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

Curriculum with Solar Study

Environmental Science

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

Curriculum with Solar Study

Farm Management

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

LAKE SUPERIOR STATE COLLEGE

1000 College Drive
Sault Sainte Marie, MI 49783
(906)632-6841 (002293)

Tuition (Full Time):

Resident: $248.00 Non Resident: $512.00

Curriculum with Solar Study

Mechanical Engineering Technology

Degree: Bachelor
Mechanical Engineering Technology; Electronic Engineering Technology
Department: Engineering Technology
Contact: DeVault, James
(906)632-6841 EXT.206
Program Training: Engineering-Solar Specialization; Electricity-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Basic Solar

Course Number: TE 400
Instructor: Madl, John T.
(906)632-6841 EXT.206
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $60.00
Non Resident: $60.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Introduction to Solar Energy

Solar Collector Construction

Course Number: TE 490
Instructor: Madl, John
(906)632-6841 EXT.206
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Workshop: 20.0
Offered: Day
Course Fee: Resident: $80.00
Non Resident: $80.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Installation/Maintenance

Solar Heating Design

Course Number: MT 377
Instructor: Carstens, D. Lynn
(906)632-6841 EXT.206
Department: Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $60.00
Non Resident: $60.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

MICHIGAN STATE UNIVERSITY

East Lansing, MI 48824
(517)355-1855 (002290)

Solar Related Courses

Development of Solar Energy Designs •

Course Number: EGR 480
Instructor: Zapp, H. R.
(517)355-5230
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Wind Energy Conversion Systems

Solar Energy Conversion

Course Number: ME 415
Instructor: Dhanak, A. M.
(517)355-5160
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Storage System Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating

MICHIGAN TECHNOLOGICAL UNIVERSITY

Houghton, MI 49931
(906)487-1885 (002292)

Tuition (Full Time):

Resident: $287.00 Non Resident: $667.00

Solar Related Courses

Environmental Engineering

Course Number: ME 437
Instructor: Suryanarayana, N. V.
(906)482-2229
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $72.00
Non Resident: $168.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Special Topics in Electrical Engineering •

Course Number: EE 490
Instructor: Schwartz, R. F.
(906)487-2530
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells

NORTHERN MICHIGAN UNIVERSITY

Marquette, MI 49855
(906)227-1000 (002301)

Tuition (Full Time):

Resident: $432.00 Non Resident: $960.00

Solar Related Courses

Energy and Chemistry

Course Number: CH 105
Instructor: Allenstein, R. V.
(906)227-2911
Department: Chemistry
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 45.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $108.00
Non Resident: $240.00
Prerequisites: No

OAKLAND UNIVERSITY

Rochester, MI 48063
(313)377-2100 (002307)

Solar Related Courses

Energy *

Course Number: PHY 115
Instructor: Tepley, N.
(313)377-3410
Department: Physics
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Energy and the Environment

Course Number: ENV 312
Instructor: Miller, Steven R.
(313)377-2334
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Offered: Day
Course Fee: Resident: $100.00
Non Resident: $254.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy

Energy Conversion

Course Number: EGR 454
Instructor: Edgerton, R. H.
(313)377-2213
(313)377-2210
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 60.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $120.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Problems in Energy and Environment

Course Number: ENV 353
Instructor: Miller, Steven R.
(313)377-2334
Department: Environmental Science
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 50.0
Independent Study: 10.0
Offered: Day
Course Fee: Resident: $100.00
Non Resident: $254.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems

SAGINAW VALLEY STATE COLLEGE

University Center, MI 48710
(517)793-9800 (002314)

Solar Related Courses

Solar Energy Systems

Course Number: 431
Instructor: Ford, Frank E.
(517)695-5325 EXT.4489
Department: Engineering and Technology
Student Level: All Levels; Layperson
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation; Thermochemical Conversion

UNIVERSITY OF DETROIT

4001 West McNichols Road
Detroit, MI 48821
(313)927-1000 (002323)

Solar Related Courses

Energy and Architecture *

Course Number: AR 514
Instructor: La Grassa, Stephen
(313)927-1532
Department: Architecture
Student Level: College Graduate
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes

Solar Energy Engineering

Course Number: E 496
Instructor: Chiou, J.
(313)927-1242
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 30.0
Lab: 45.0
Offered: Day
Course Fee: Resident: $330.00
Non Resident: $330.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF MICHIGAN

Ann Arbor, MI 48109
(313)764-1817 (009092)

Solar Related Courses

Alternative Futures

Course Number: 418
Instructor: Skolomowski, Henryk
(313)763-4696
Department: Engineering Humanities
Student Level: College/Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Independent Study: 15.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Decentralism, Self-Sufficiency, and the Small Community

Course Number: 574
Instructor: Feldt, Allan
(313)764-5474
Department: Urban Planning
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Independent Study: 15.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Energy Conservation; Passive Solar Systems; Solar Home Construction; Wind Energy Conversion Systems

Energy Development: Assessment of Alternatives

Course Number: 492
Instructor: Gray, Donald
(313)764-9420
Department: Civil Engineering
Student Level: College Junior/Senior
Academic Credits: 2.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Energy Policy Development; Solar Law/Legislation; Solar Marketing/ Economic Analysis

Energy, Entropy, and the Environment

Course Number: 353
Instructor: Larimore, Ann
(313)764-0341
Department: Geography
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Independent Study: 15.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Instrumentation for Solar Energy Measurements

Course Number: AOS 466
Instructor: Bartman, Fred L.
(313)764-7211
Department: Atmospheric and Oceanic Science
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Social Change, Energy, and Land Ethics

Course Number: 494
Instructor: Crowfoot, Jim
(313)764-1570

Department: Natural Resources
Student Level: College Junior/Senior
Academic Credits: 2.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Independent Study: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Distributed Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Energy Policy Development; Wind Energy Conversion Systems

Solar Energy Measurements and Instrumentation

Instructor: Bartman, Fred L.
(313)764-7211
Department: Engineering Summer Conference
Student Level: Professional
C.E.U.'s: 3.5
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 20.0
Lab. 20.0
Offered: Day
Course Fee: Resident: $200.00
Non Resident: $200.00
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy

Solar Energy Systems Design

Course Number: 575
Instructor: Clark, John
(313)763-1046
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Workshop: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Photovoltaics and Solar Cells; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Energy Utilization

Course Number: 475
Instructor: Clark, John
(810)700-1040
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Materials; Photoconversion; Photovoltaics and Solar Cells; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Technology Assessment

Course Number: 724
Instructor: Oberdick, Willard
(313)764-9452
Department: Architecture
Student Level: College Graduate
Academic Credits: 2.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Seminar: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Distributed Solar Power Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Testing/Evaluation

UNIVERSITY OF MICHIGAN AT FLINT

1321 East Court Street
Flint, MI 48503
(313)762-3000 (002327)

Tuition (Full Time):
Resident: $788.00 Non Resident: $2,558.00

Solar Related Courses

Energy Planning and Technology

Course Number: ENV 250
Instructor: Marsh, William
(313)762-3355
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Evening
Course Fee: Resident: $101.00
Non Resident: $321.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Energy, Man and the Environment

Course Number: ENV 105
Instructor: Marsh, William
(313)762-3355
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $101.00
Non Resident: $321.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water

WAYNE STATE UNIVERSITY

Detroit, MI 48202
(313)577-2424 (002329)

Solar Related Courses

Energy in the Environment

Course Number: Physics 0106
Instructor: Thomas, R. L.
(313)577-2970
Department: Physics and Astronomy
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Energy, Technology and Society *

Course Number: GST 2202
Department: Lifelong Learning
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Prerequisites: No
Topics Covered Extensively: Energy Conservation

Program in Environmental Studies *

Course Number: ENV 501-3
Instructor: Saperstein, A. M.
Department: Industrial Education, Physics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Prerequisites: Yes

Residential Solar Energy *

Course Number: GST 2203
Instructor: Bowen, David R.
(313)577-4631
Department: Lifelong Learning
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 1.0
Hrs. per week: 34.0
Contact Hours: 34.0
Classroom: 34.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Senior Seminar, 4996 *

Course Number: 4996
Instructor: Majeske, Penelope K.
(313)577-4644
Department: Lifelong Learning
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Independent Study: 44.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Senior Seminar, 4986 *

Course Number: 4986
Instructor: Majeske, Penelope K.
(313)577-4644
Department: Lifelong Learning
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Independent Study: 44.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Solar Energy Heat Transfer Processes

Course Number: ME 0527
Instructor: Singh, Trilochan
(313)577-3846
Department: Mechanical Engineering
Student Level: College Junior/Senior; Professional
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Offered: Evening
Course Fee: Resident: $137.00
Non Resident: $317.00

Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Theory and Design
Course Number: TE 142
Instructor: Larson, L.
(616)456-4860
Department: Technology
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 26.0
Independent Study: 2.0
Lab: 4.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $34.00
Non Resident: $57.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water

JACKSON COMMUNITY COLLEGE

Jackson, MI 49201
(517)787-0800 (002274)

Solar Related Courses

Solar Heating and Cooling *
Course Number: A1T 010
Course Number: (517)787-0800
Department: Occupational
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0

MACOMB COUNTY COMMUNITY COLLEGE-SOUTH CAMPUS

14500 Twelve Mile Road
Warren, MI 48093
(313)779-7188 (002281)

Tuition (Full Time):
Resident: $15.00 Non Resident: $28.00

Solar Related Courses

Energy Conservation and Solar Heating
Course Number: CCT 280
Instructor: Cooper, William
(313)779-7435
Department: Technical Education
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day; Evening
Course Fee: Resident: $15.00
Non Resident: $28.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation

MID MICHIGAN COMMUNITY COLLEGE

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

Tuition (Full Time):
Resident: $45.00 Non Resident: $63.00

Solar Related Courses

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

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

NORTHWESTERN MICHIGAN COLLEGE

1701 East Front Street
Traverse City, MI 49684
(616)946-5650 (002302)

Tuition (Full Time):
Resident: $70.00 Non Resident: $110.00

Solar Related Courses

Solar Energy
Course Number: SE 201
Instructor: Cookman, R.
(616)946-5650 EXT.453
Department: Science
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Evening
Course Fee: Resident: $70.00
Non Resident: $110.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

SAINT CLAIR COUNTY COMMUNITY COLLEGE

Port Huron, MI 48060
(313)984-3881 (002310)

Solar Related Courses

Alternate Energy, Introduction to Energy *
Course Number: 100
Instructor: Zochowski, Phil
(313)984-3881
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Home Construction; Wind Energy Conversion Systems

SCHOOLCRAFT COLLEGE

18600 Haggerty Road
Livonia, MI 48152
(313)591-6400 (002315)

Solar Related Courses

Energy, Man and the Future
Course Number: 101
Instructor: Lesko, John
(313)591-6400 EXT.522
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 48.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $75.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Solar Energy Seminar
Instructor: Andrews, Betty
(313)591-6400 EXT.409

Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Heating; Solar Systems Design

WESTERN MICHIGAN UNIVERSITY

Kalamazoo, MI 49008
(616)383-1600 (002330)

Tuition (Full Time):
Resident: $25.00 Non Resident: $57.00

Solar Related Courses

Design of Solar Systems

Course Number: 451
Instructor: Schubert, R. C. (616)383-4021
Department: Mechanical Engineering
Student Level: College Junior/Senior; Managerial; Professional
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $76.00; Non Resident: $172.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Solar Heating; Solar Systems Design

Solar Energy Systems

Course Number: ME 339
Instructor: Ryan, L. D. (616)383-4021
Department: Mechanical Engineering
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $77.00; Non Resident: $173.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy Workshop

Instructor: Ryan, L. D. (616)383-4021
Department: Institute of Technological Studies
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Contact Hours: 8.0
Workshop: 8.0
Offered: Day; Evening
Course Fee: Resident: $50.00; Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction; Solar Systems Design; Solar Systems Installation/ Maintenance

Junior and Community Colleges

CHARLES STEWART MOTT COMMUNITY COLLEGE

Flint, MI 48503
(313)762-0278 (002261)

Solar Related Courses

Solar Heating and Cooling

Course Number: PH SCI 113
Instructor: Cross, Fred (313)762-0285
Department: Science and Mathematices
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 16.0
Seminar: 12.0
Field Trips: 4.0
Offered: Day; Evening
Course Fee: Resident: $36.00; Non Resident: $72.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

DELTA COLLEGE

Markinaw Road
University Center, MI 48710
(517)686-0400 (002251)

Tuition (Full Time):
Resident: $17.00 Non Resident: $42.00

Solar Related Courses

Solar Energy Workshop

Course Number: 78111
Instructor: Most, C. (517)002-9207; Schuitman, J.; Whittaker, M.
Department: Science
Student Level: All Levels; Layperson
Academic Credits: 1.0 (Trimester)
C.E.U.'s: 1.0
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 9.0
Workshop: 6.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $17.00; Non Resident: $43.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy: Graphic Fundamentals in Building Design

Course Number: VI 244
Instructor: McGivern, Ralph M.
Department: Architectural Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Trimester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Offered: Evening
Course Fee: Resident: $70.00; Non Resident: $125.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

GLEN OAKS COMMUNITY COLLEGE

Route 1 Shimmel Road
Centreville, MI 49032
(616)467-9945 (002263)

Solar Related Courses

Alternative Energy

Course Number: VAE 110
Instructor: Moss, Wayne (616)467-9945
Department: Vocational
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0

Solar Energy

Course Number: VAE 120
Instructor: Moss, Wayne (616)467-9945 EXT.217
Department: Vocational
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 45.0
Lab: 3.0
Offered: Evening
Course Fee: Resident: $48.00; Non Resident: $69.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

GRAND RAPIDS JUNIOR COLLEGE

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

Solar Related Courses

Solar Dwelling Design Concepts

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

Solar Systems - Collector Design and Construction

Course Number: TE 245
Instructor: Larson, L. (616)456-4860
Department: Technology
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 16.0
Job: 16.0
Lab: 32.0

Department: Community Services
Student Level: Professional; Skilled Labor
Duration: No. of weeks: 1.0
Hrs. per week: 4.0
Contact Hours: 4.0
Seminar: 4.0
Offered: Day
Course Fee: Resident: $2.00
Non Resident: $2.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

SOUTHWESTERN MICHIGAN COLLEGE

Cherry Grove Road
Dowagiac, MI 49047
(616)782-5113 (002317)

Solar Related Courses

Solar Energy
Course Number: PHSC 181
Instructor: Haidler, William
(616)782-5113
Department: Science and Continuing Education
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 6.0
Hrs. per week: 6.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $32.00
Non Resident: $40.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Other Educational Institutions and Organizations

SUNSTRUCTURES, INCORPORATED

201 East Liberty Street
Ann Arbor, MI 48104
(313)994-5650 (090430)

Solar Related Courses

Alternative Energy Workshop
Instructor: MacMath, Richard
(313)994-5650
Student Level: Layperson
Contact Hours: 80.0
Classroom: 30.0
Seminar: 5.0
Workshop: 45.0
Offered: Day; Weekend
Course Fee: Resident: $100.00
Non Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction

UPLAND HILLS ECOLOGICAL AWARENESS CENTER

2575 Indian Lake Road
Oxford, MI 48051
(313)628-5116 (091030)

Solar Related Courses

Alternative Energy Workshop
Instructor: Moore, Phillip
(313)628-5116
Student Level: Layperson
Duration: No. of weeks: 10.0
Hrs. per week: 8.0
Contact Hours: 80.0
Classroom: 30.0
Seminar: 5.0
Workshop: 45.0
Offered: Day; Weekend
Course Fee: Resident: $100.00
Non Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction

Minnesota

Colleges and Universities

AUGSBURG COLLEGE

Minneapolis, MN 55454
(612)332-5181 (002334)

Solar Related Courses

Energy Options for the Future *
Instructor: Paulson, Kermit E.
(612)332-5181
Department: Physics
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

BEMIDJI STATE UNIVERSITY

Bemidji, MN 56601
(218)755-2000 (002336)

Solar Related Courses

Alternate Energy Sources *
Course Number: 370
Instructor: Strom, Irving
(218)755-2760
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Fireplace Construction *
Course Number: 496
Instructor: Anderson, Robert
(218)755-2950
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 20.0
Contact Hours: 20.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer

Heat Pump Technology *
Course Number: 4/596
Instructor: Larson, Irving
(218)755-2950
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 10.0
Contact Hours: 10.0
Classroom: 10.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Solar Heating, Energy *
Course Number: 4/596
Instructor: Larson, Irving
(218)755-2950
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 1.0

Duration: No. of weeks: 1.0
Hrs. per week: 10.0
Contact Hours: 10.0
Classroom: 10.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating

Wind Generation, Energy *
Instructor: Larson, Irving
(218)755-2950
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 10.0
Contact Hours: 10.0
Classroom: 10.0
Topics Covered Extensively: Energy Storage Systems; Wind Energy Conversion Systems

COLLEGE OF SAINT TERESA

Winona, MN 55987
(507)452-9302 (002344)

Solar Technical Training

Solar Energy Dynamics *
Department: Biology; Chemistry
Contact: Homer, Oscar
(507)454-2930
Program Training: Solar Energy Education

Program and Curriculum Related Courses

Solar Energy Dynamics *
Instructor: Homer, Oscar
Department: Biology/Chemistry
Program: Solar Energy Dynamics *
Student Level: College Graduate
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 60.0
Lab: 60.0

GUSTAVUS ADOLPHUS COLLEGE

Saint Peter, MN 56082
(507)931-4300 (002353)

Tuition (Full Time):
Resident: $2,350.00

Solar Related Courses

Energy, Alternate Energy
Course Number: 204
Instructor: Bradley, Wendell G.
(507)931-4300 EXT.245
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 6.0
Contact Hours: 84.0
Classroom: 42.0
Workshop: 42.0
Offered: Day
Course Fee: Resident: $410.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Distributed Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

MANKATO STATE UNIVERSITY

Mankato, MN 56001
(507)389-1111 (002360)

Solar Related Courses

Energy and Management *
Course Number: 101
Instructor: Mordue, Dale
(507)389-6536
Department: Physics, Electronic Engineering Technology
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 30.0
Lab: 10.0
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Solar Systems Design

Residential Solar Energy
Course Number: 491/591
Instructor: Johnson, Iver H.
(507)389-6021
Department: Industrial and Technical Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 24.0
Seminar: 12.0
Offered: Evening
Course Fee: Resident: $32.00
Non Resident: $64.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

MOORHEAD STATE UNIVERSITY

Moorhead, MN 56560
(218)236-2011 (002367)

Solar Related Courses

Solar Energy
Course Number: 103
Instructor: Mathiason, Dennis
(218)236-2136
Department: Chemistry
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

SAINT CLOUD STATE UNIVERSITY

Saint Cloud, MN 56301
(612)255-0121 (002377)

Tuition (Full Time):
Resident: $200.00 Non Resident: $400.00

Solar Related Courses

Solar Energy
Course Number: 495/595
Instructor: Trummel, Donald
(612)255-2011
Department: Physics
Student Level: All Levels
Academic Credits: 2.0 (Quarter)
C.E.U.'s: 2.0
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 19.0
Lab: 5.0
Offered: Evening
Course Fee: Resident: $28.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

SOUTHWEST STATE UNIVERSITY

Marshall, MN 56258
(507)537-7100 (002375)

Tuition (Full Time):
Resident: $215.00 Non Resident: $383.00

Solar Related Courses

Introduction to Solar Heating
Course Number: 262
Instructor: Reinert, Charles
(507)537-6175
Department: Chemistry, Physics
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $32.00
Non Resident: $64.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF MINNESOTA AT DULUTH

Duluth, MN 55812
(218)726-8000 (002388)

Solar Related Courses

Energy Resources: Sources, Use, and Conservation *
Course Number: PHYS 1020
Instructor: Oakland, Lewis J.
(218)726-7210
Department: Letters and Science-Physics
Student Level: All Levels
Academic Credits: 4.0

Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 30.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

Environmental Studies *
Course Number: PHY 3050
Instructor: Sydor, Michael (218)726-7205
Department: Letters and Science-Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Heat and Energy Transfer

UNIVERSITY OF MINNESOTA MINNEAPOLIS SAINT PAUL

Underground Space Center
Minneapolis, MN 55455
(612)373-2851 (003969)

Solar Related Courses

So You Want to Build an Earthsheltered House
Duration: No. of weeks: 6.0
Hrs. per week: 2.0
Contact Hours: 12.0
Course Fee: Resident: $45.00
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis

Solar Energy Utilization
Course Number: ME 5712
Instructor: Liu, Benjamin Y. H. (612)373-3043
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

WILLIAM MITCHELL COLLEGE OF LAW

Saint Paul, MN 55105
(612)227-9171 (002391)

Solar Related Courses

Energy Law and Policy *
Course Number: 393
Instructor: Prince, J. D. (612)227-9171
Department: College of Law
Student Level: College Graduate
Academic Credits: 2.0
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Solar Energy Policy Development

WINONA STATE UNIVERSITY

Winona, MN 55987
(507)457-2110 (002394)

Tuition (Full Time):

Resident: $128.00 Non Resident: $212.00

Solar Related Courses

Solar Energy
Course Number: 410
Instructor: Shields, Richard (507)457-2094
Department: Physics
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $107.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Materials; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design

Junior and Community Colleges

ANOKA-RAMSEY COMMUNITY COLLEGE

11200 Mississippi Boulevard NW
Coon Rapids, MN 55422
(612)427-2600 (002332)

Tuition (Full Time):

Resident: $180.00

Solar Related Courses

Application of Solar Energy
Instructor: Austin, Curtis L. (612)427-2600
Department: Engineering
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $36.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Design

LAKEWOOD COMMUNITY COLLEGE

White Bear Lake, MN 55110
(612)770-1331 (008774)

Solar Related Courses

Energy Concepts *
Course Number: NS 138
Instructor: Wischmann, Robert (612)770-1331
Department: Natural Science
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems

ROCHESTER COMMUNITY COLLEGE

Rochester, MN 55901
(507)285-7210 (002373)

Solar Related Courses

Advanced Solar Energy for the Homeowner
Department: Civil Engineering Technology
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0

Residential Solar and Earth Sheltered Building Techniques
Instructor: Plitzuweit, Irv (507)285-7220
Department: Community Services
Student Level: All Levels; Layperson
C.E.U.'s: 1.6
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction

Vocational / Technical Schools

RED WING AREA VOCATIONAL TECHNICAL INSTITUTE

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

Solar Technical Training

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

Solar Technical Training

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

SAINT PAUL TECHNICAL VOCATIONAL INSTITUTE

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

Curriculum with Solar Study

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

Curriculum with Solar Study

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

Curriculum with Solar Study

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

Solar Related Courses

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

ADULT VOCATIONAL EDUCATION

Lake Avenue and Second Street
Duluth, MN 55802
(218)723-4135 (060580)

Solar Technical Training

Consumer Energy
Degree: Certificate
Trade and Industry
Department: Adult Vocational Education
Contact: Palmer, Rodger
(218)723-4135 EXT.265
Program Training: Do-It-Yourself/Home Installation

Other Educational Institutions and Organizations

Mississippi

Colleges and Universities

DELTA STATE UNIVERSITY

Cleveland, MS 38732
(601)846-6664 (002403)

Solar Technical Training

*Energy Program for High School Teachers **
Department: Physical Sciences
Contact: Myers, Richard S.
(601)843-9741
Program Training: Solar Energy Education

Program and Curriculum Related Courses

*Special Topics in Chemistry - Energy **
Course Number: CHE 002
Instructor: Myers, Richard S
(601)843-9741
Department: Physical Sciences
Program: Energy Program for High School Teachers *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 2.0
Hrs. per week: 20.0
Contact Hours: 56.0
Classroom: 56.0
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

MISSISSIPPI STATE UNIVERSITY

Drawer ME
Mississippi State, MS 39762
(601)324-4915 (002423)

Tuition (Full Time):

Resident: $339.00 Non Resident: $751.00

Solar Related Courses

Solar Energy Thermal Processes
Course Number: ME 4313
Instructor: Forbes, Richard
(601)325-4915
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $93.00
Non Resident: $138.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Design

UNIVERSITY OF SOUTHERN MISSISSIPPI

Southern Station
Hattiesburg, MS 39401 (002441)

Tuition (Full Time):

Resident: $338.00 Non Resident: $751.00

Solar Related Courses

Solar Heating and Cooling

Course Number: MET 444/544
Instructor: Brent, Charles R. (601)266-7212
Department: Science and Technology, Industrial Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $81.00
Non Resident: $186.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Junior and Community Colleges

HINDS JUNIOR COLLEGE

Raymond, MS 39154
(601)857-5261 (002407)

Solar Related Courses

Solar Energy

Course Number: CEU 0073
Instructor: Durham, J. David (615)857-5261
Department: Physical Science
Student Level: Layperson
C.E.U.'s: 1.2
Duration: No. of weeks: 6.0
Hrs. per week: 2.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Course Fee: Resident: $20.00
Non Resident: $20.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

NORTHWEST MISSISSIPPI JUNIOR COLLEGE

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

Tuition (Full Time):

Resident: $185.00 Non Resident: $485.00

Solar Curriculum

Solar and Environmental Engineering

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

Program and Curriculum Related Courses

Fundamentals of Solar Energy

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

Solar Devices

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

Solar Energy Systems I

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

Solar Energy Systems II

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

WOOD JUNIOR COLLEGE

P O Drawer C
Mathiston, MS 39752 (002448)

Curriculum with Solar Study

Alternate Energy Program

Degree: Associate
Department: Science
Contact: Sutphin, Felix (601)263-8128

Missouri

Colleges and Universities

CENTRAL METHODIST COLLEGE

Church Street
Fayette, MO 65248 (002453)

Tuition (Full Time):
Resident: $200.00

Solar Related Courses

Research Topics in Solar Energy
Course Number: 143
Instructor: Peery, Larry J. (816)248-3391
Department: Physics and Astronomy
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 20.0
Contact Hours: 60.0
Classroom: 15.0
Job: 45.0
Offered: Day
Course Fee: Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

CENTRAL MISSOURI STATE UNIVERSITY

Warrensburg, MO 64093
(816)429-4111 (002454)

Solar Related Courses

Energy Conservation *
Course Number: SAFE 4040
Instructor: Ulrich, Robert (816)429-4626
Department: Public Service
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 60.0
Topics Covered Extensively: Energy Conservation

Solar Energy
Course Number: Phys 3510
Instructor: Bell, M. Drake (816)429-4938
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 40.0
Lab: 26.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $75.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Law/ Legislation; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Energy for Building Construction
Course Number: MFEC 4340
Instructor: Landers, Jack M. (816)429-4439
Department: Manufacturing and Construction
Student Level: College Junior/Senior; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $75.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

DRURY COLLEGE

900 North Benton Avenue
Springfield, MO 65802
(417)865-8731 (002461)

Solar Related Courses

Your Next Solar Home
Instructor: Weber, Donald (417)865-8731 EXT.234
Department: Physics
Student Level: All Levels
Duration: No. of weeks: 4.0
Hrs. per week: 10.0
Contact Hours: 40.0
Offered: Day
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

NORTHEAST MISSOURI STATE UNIVERSITY

Kirksville, MO 63501
(816)665-5121 (002495)

Tuition (Full Time):
Resident: $170.00 Non Resident: $380.00

Solar Related Courses

Solar Home Heating
Course Number: PA 598
Instructor: Harrington, Arthur
Department: Industrial Technology
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Contact Hours: 35.0
Classroom: 15.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $30.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Introduction to Solar Energy; Solar Heating

SAINT LOUIS UNIVERSITY

221 North Grand Boulevard
Saint Louis, MO 63103
(314)535-3300 (002508)

Curriculum with Solar Study

Meteorology
Degree: Doctorate, Master, Bachelor Meteorology
Department: Earth and Atmospheric Sciences
Contact: Pallmann, Albert (314)658-3125
Program Training: Scientific Research and Development in Solar Energy

SOUTHEAST MISSOURI STATE UNIVERSITY

Cape Girardeau, MO 63701
(314)334-8211 (002501)

Solar Related Courses

Introduction to Solar Applications *
Instructor: Freeman, Robert W. (314)651-2172
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

SOUTHWEST MISSOURI STATE UNIVERSITY

901 South National
Springfield, MO 65802 (002503)

Curriculum with Solar Study

Engineering Physics, Solar Emphasis
Degree: Bachelor Physics
Department: Physics
Contact: Banks, L. E. (417)836-5131
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar

Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

. . ogram and Curriculum Related Courses

Basics of Solar Energy
Course Number: 131
Instructor: Banks, L. E. (417)836-5131
Program: Engineering Physics, Solar Emphasis
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Energy Laboratory
Course Number: 141
Instructor: Banks, L. E. (417)836-5131
Department: Physics
Program: Engineering Physics, Solar Emphasis
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Lab: 32.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Systems Design; Solar Systems Testing/Evaluation

Solar System Design
Course Number: 265
Instructor: Banks, L. E. (417)836-5131
Department: Physics
Program: Engineering Physics, Solar Emphasis
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Lab: 32.0
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Home Construction; Solar Systems Design

Solar Systems Analysis
Course Number: 265
Instructor: Banks, L. E. (417)836-5131
Department: Physics
Program: Engineering Physics, Solar Emphasis
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2:0
Contact Hours: 32.0
Classroom: 32.0
Prerequisites: Yes
Topics Covered Extensively: Process Heat; Solar Domestic Hot Water; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Thermal Analysis
Course Number: 265
Instructor: Banks, L. E. (417)836-5131
Department: Physics
Program: Engineering Physics, Solar Emphasis
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Heating

Wind Energy
Course Number: 131
Instructor: Northrip, J. W. (417)836-5405
Department: Physics
Program: Engineering Physics, Solar Emphasis
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

STEPHENS COLLEGE

Columbia, MO 65201
(314)442-2211 (002512)

Tuition (Full Time):
Resident: $2,838.00

Solar Related Courses

Architectural Design
Course Number: Art 321
Instructor: Peckham, Nicholas (314)442-2211 EXT.364
Department: Art
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Classroom: 26.0
Seminar: 10.0
Independent Study: 1.0
Workshop: 80.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Heating

UNIVERSITY OF MISSOURI AT COLUMBIA

1026 Engineering
Columbia, MO 65211
(314)882-2121 (002516)

Solar Related Courses

Energy Systems, Resources, Risks, Benefits
Course Number: NE 301
Instructor: Meyer, Walter (314)882-3550
Bull, Stanley R.
Department: Energy Systems and Resources
Student Level: College Graduate
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 30.0
Lab: 10.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Engineering Evaluation - Energy Systems, Resources
Course Number: EEMAENE 315
Instructor: Meyer, Walter (314)882-3550
Department: Energy Systems and Resources Programs
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $96.00
Non Resident: $96.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Satellite Solar Power Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Systems Design; Wind Energy Conversion Systems

Meet Energy Crisis - Compute Risks, Benefits
Course Number: NE 301
Instructor: Meyer, Walter (314)882-3550
Bull, Stanley R.
Department: Energy Systems and Resources
Student Level: College Graduate
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 40.0
Contact Hours: 120.0
Classroom: 90.0
Lab: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Satellite Solar Power Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Systems Design; Wind Energy Conversion Systems

Principles of Direct Energy Conversion
Course Number: MAE 359
Instructor: Warder, Richard C. (314)882-8345
Department: Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $90.00; Non Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

Solar Energy Utilization
Course Number: MAE 339
Instructor: Moore, Gordon L. (314)882-2785
Department: Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $90.00; Non Resident: $90.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction

Teachers Energy Symposium
Course Number: NE 301
Instructor: Meyer, Walter (314)882-3550; Bull, Stanley R.
Department: Energy Systems and Resources
Student Level: College Graduate
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 1.0; Hrs. per week: 20.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Satellite Solar Power Systems; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Systems Design; Thermochemical Conversion; Wind Energy Conversion Systems

UNIVERSITY OF MISSOURI AT KANSAS CITY

Kansas City, MO 64110
(816)276-1000 (002518)

Tuition (Full Time):
Resident: $401.00 Non Resident: $1,121.00

Solar Related Courses

Solar Energy Utilization
Course Number: 339
Instructor: Stewart, W. E. (816)276-1672
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 39.0
Lab: 6.0
Offered: Evening
Course Fee: Resident: $180.00; Non Resident: $180.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF MISSOURI AT ROLLA

Rolla, MO 65401
(314)341-4114 (002517)

Curriculum with Solar Study

Solar Energy Conversion
Degree: Master Electrical Engineering
Department: Electrical Engineering
Contact: Van Doren, Thomas (314)341-4357
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Conversion
Course Number: EE 335
Instructor: Boone, Jack L. (314)341-4357
Department: Electrical Engineering
Program: Solar Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells; Solar Heating; Solar Systems Testing/Evaluation

Solar Energy Conversion - Lab
Course Number: EE 336
Instructor: Boone, Jack L. (314)341-4357
Department: Electrical Engineering
Program: Solar Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 1.0
Contact Hours: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells; Solar Heating; Solar Systems Testing/Evaluation

Solar Heating and Cooling
Course Number: ME 365
Instructor: Armaly, Bassem F. (314)341-4671
Program: Solar Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF MISSOURI AT SAINT LOUIS

8001 Natural Bridge Road
Saint Louis, MO 63121
(314)453-0111 (002519)

Solar Related Courses

Energy
Course Number: 190
Instructor: Feldman, Bernard (314)453-5931
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 36.0
Independent Study: 12.0
Offered: Day
Course Fee: Resident: $115.00; Non Resident: $115.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

WASHINGTON UNIVERSITY

Saint Louis, MO 63130
(314)889-5000 (002520)

Solar Related Courses

Energy Effective Building Design
Course Number: 548
Instructor: Tao, W. and Associates (314)644-1400
Department: Architecture
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 2.0
Contact Hours: 28.0
Classroom: 28.0
Offered: Day
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Marketing/Economic Analysis

Solar Energy Technology and Policy
Course Number: THA 143
Instructor: Icerman, Larry (314)889-5482
Department: Technology and Human Affairs
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day

Course Fee: Resident: $360.00
Non Resident: $360.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design

WEBSTER COLLEGE

Saint Louis, MO 63119
(314)968-0500 (002521)

Solar Related Courses

*Energy Appropiate to the Task **

Instructor: McConnell, Bill
(314)968-0500
Department: Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Energy Conservation; Passive Solar Systems

WILLIAM JEWELL COLLEGE

Liberty, MO 64068
(816)781-3806 (002524)

Tuition (Full Time):

Resident: $1,105.00 Non Resident: $1,105.00

Solar Related Courses

Chemistry - Introduction to Literature and Research

Course Number: 410a, 410b
Instructor: Holloway, Thomas T.
(816)781-3806 EXT.399
Department: Chemistry
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Contact Hours: 300.0
Independent Study: 300.0
Offered: Day
Course Fee: Resident: $225.00
Non Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Bioconversion; Energy Conservation; Energy Storage Systems; Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion

Junior and Community Colleges

CROWDER COLLEGE

Neosho, MO 64850
(417)451-3223 (002459)

Solar Related Courses

*Basic Solar Design **

Instructor: Boyt, Art
(417)451-5365
Department: Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Wind Energy Conversion Systems

MINERAL AREA COLLEGE

Flat River, MO 63601
(314)431-4593 (002488)

Solar Related Courses

Energy Alternatives

Course Number: 365
Instructor: Hrouda, James G.
(314)756-3171
Department: Technical
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 24.0
Seminar: 12.0
Lab: 12.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Satellite Solar Power Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

SAINT LOUIS COMMUNITY COLLEGE

11333 Big Bend Boulevard
Saint Louis, MO 63122
(314)966-7500 (002472)

Solar Related Courses

Fundamentals of Solar Energy and Energy Conservation

Course Number: 12.906
Instructor: Gill, James
Department: Continuing Education
Duration: No. of weeks: 5.0
Hrs. per week: 2.5
Contact Hours: 12.5
Course Fee: Resident: $20.00
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Home Construction

Vocational / Technical Schools

ROLLA AREA VOCATIONAL TECHNICAL SCHOOL

1304 East Tenth
Rolla, MO 65401
(314)364-3726 (060625)

Tuition (Full Time):

Resident: $500.00

Solar Related Courses

Air Conditioning and Refrigeration

Instructor: Falkenrath, Richard
(314)364-3726
Department: Air Conditioning and Refrigeration
Student Level: Skilled Labor
Duration: No. of weeks: 2.0
Hrs. per week: 10.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Plumbing Techniques; Process Heat; Sheet Metal Techniques

Montana

Colleges and Universities

MONTANA COLLEGE MINERAL SCIENCE TECHNOLOGY

Butte, MT 59701
(406)792-8321 (002531)

Solar Related Courses

Heat Transfer *

Course Number: ES 526
Instructor: Alexander, Richard (406)792-8321
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Heat and Energy Transfer

MONTANA STATE UNIVERSITY

Bozeman, MT 59717
(406)994-4361 (002532)

Solar Related Courses

Energy Course for Homebuilders

Course Number: 570
Instructor: Martindale, W. R. (406)994-2203
Department: Mechanical Engineering
Student Level: All Levels; Skilled Labor; Layperson
C.E.U.'s: 4.0
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design

Energy Efficient Building for Contractors *

Instructor: Warrington, Robert (406)994-2203
Department: Continuing Education
Student Level: All Levels

Energy Training Shop - Secondary Science Instructors

Course Number: 570
Instructor: Mussulman, R. L. (406)994-2203
Department: Mechanical Engineering
Student Level: College Graduate; Layperson
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 2.0; Hrs. per week: 20.0
Contact Hours: 40.0
Classroom: 30.0
Lab: 10.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Heat and Energy Transfer; Passive Solar Systems; Solar Heating

Energy: Limits, Problems, and Prospects

Course Number: PHY 252
Instructor: Kirkpatrick, Larry (406)994-3614
Department: Letters and Science, Physics
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $50.00; Non Resident: $164.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Solar Energy Design

Course Number: ME 480
Instructor: Warrington, Robert O. (406)994-2203
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Offered: Day
Course Fee: Resident: $61.00; Non Resident: $213.00
Topics Covered Extensively: Components-Solar; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/ Evaluation

UNIVERSITY OF MONTANA

Missoula, MT 59801
(406)243-0211 (002536)

Solar Related Courses

Alternative Energy and the Ecosphere *

Course Number: 178-9
Instructor: Sheridan, R. (406)243-2613
Department: Botany, Liberal Arts
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 9.0; Hrs. per week: 3.0
Contact Hours: 27.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

WESTERN MONTANA COLLEGE

Dillon, MT 59725
(406)683-7251 (002537)

Solar Related Courses

Solar Energy *

Course Number: 2/3/491
Instructor: Streeper, Joseph B. (406)683-7102
Department: Science
Student Level: All Levels
Academic Credits: 2.0
Contact Hours: 40.0
Classroom: 30.0
Lab: 10.0

Junior and Community Colleges

FLATHEAD VALLEY COMMUNITY COLLEGE

Kalispell, MT 59901
(406)755-5222 (006777)

Solar Related Courses

Alternative Energy and Conservation

Course Number: 176 *
Instructor: Blood, Lex (406)755-5222 EXT.271
Department: Geology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 19.0
Lab: 14.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Law/Legislation; Solar Systems Design; Solar Domestic Hot Water; Process Heat; Solar Heating; Wind Energy Conversion Systems

Energy for a Technological Society

Course Number: 173
Instructor: Blood, Lex (406)755-5222 EXT.271
Department: Geology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 19.0
Lab: 14.0
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer

Energy Conservation and Alternative Sources

Instructor: Blood, Lex (406)755-5222 EXT.271
Department: Continuing Education
Student Level: All Levels; Layperson
Academic Credits: 2.0
Contact Hours: 20.0
Classroom: 16.0
Field Trips: 4.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $18.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Passive Solar Systems; Greenhouse Techniques; Energy Conservation; Solar Home Construction

Energy Resources and Policy

Instructor: Blood, Lex (406)755-5222 EXT.271
Department: Continuing Education
Student Level: All Levels; Layperson
Academic Credits: 1.0
Contact Hours: 8.0
Workshop: 8.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $9.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Solar Marketing/ Economic Analysis

Vocational / Technical Schools

ISSOULA VOCATIONAL ECHNICAL CENTER

909 South Avenue West
Missoula, MT 59801
(406)721-1330 (060639)

Solar Related Courses

Solar Design Workshop
Instructor: Dill, Richard
(406)728-2400 EXT.244
Department: Adult Education
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 9.0
Workshop: 21.0
Offered: Evening
Course Fee: Resident: $16.00
Non Resident: $16.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

Other Educational Institutions and Organizations

MONTANA SUNTEAM

P O Box 555
Helena, MT 59601
(406)442-0448 (091070)

Solar Related Courses

Solar Greenhouse Workshop
Instructor: Wilshack, Ann
(406)485-2180
Brown, John
Student Level: All Levels
Contact Hours: 24.0
Classroom: 3.0
Seminar: 3.0
Workshop: 16.0
Job: 10.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $30.00
Non Resident: $30.00
Prerequisites: No
Topics Covered Extensively: Greenhouse Techniques; Solar Heating

Nebraska

Colleges and Universities

HASTINGS COLLEGE

7th Street at Turner Avenue
Hastings, NE 68901
(402)463-2402 (002548)

Tuition (Full Time):

Resident: $225.00

Solar Related Courses

Environmental Science, 260
Course Number: 260
Instructor: Throckmorton, C.
(402)463-2402 EXT.263
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 5.0
Contact Hours: 70.0
Classroom: 56.0
Lab: 14.0
Offered: Day
Course Fee: Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

Environmental Science, 433
Course Number: 433
Instructor: Throckmorton, C.
(402)463-2402 EXT.263
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 5.0
Contact Hours: 70.0
Classroom: 56.0
Lab: 14.0
Offered: Day
Course Fee: Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

UNIVERSITY OF NEBRASKA AT LINCOLN

Lincoln, NE 68588
(402)472-7211 (002565)

Tuition (Full Time):

Resident: $22.00 Non Resident: $61.00

Solar Related Courses

Solar Energy Engineering
Course Number: 414/814
Instructor: Anderson, Edward E
(402)472-1678
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $77.00
Non Resident: $192.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design

*Summer Institute and Curriculum Development - Energy Education **
Course Number: 993 S
Instructor: McCurdy, Donald W.
(402)472-3155
Department: Teachers College
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 30.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Heating; Solar Home Construction

Junior and Community Colleges

GRAND ISLAND EDUCATION CENTER CTCCA

3134 West Highway 34
Grand Island, NE 68801
(308)384-5220 (029007)

Tuition (Full Time):

Resident: $10.00

Solar Related Courses

Solar Energy Application
Instructor: Kinkade, Marion
(308)384-5220
Department: Environmental Control
Student Level: Layperson
Academic Credits: 1.0 (Quarter)
Contact Hours: 20.0
Offered: Evening
Course Fee: Resident: $10.00
Prerequisites: No

Solar Energy Fundamentals
Course Number: 330.54
Instructor: Krueger, Alan
(402)463-6811
Department: Refrigeration and Heating
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Lab: 40.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design

Vocational / Technical Schools

METROPOLITAN TECHNICAL COMMUNITY COLLEGE

30th and Fort
Omaha, NE 68137
(402)457-5100 (012686)

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

SOUTHEAST COMMUNITY COLLEGE MILFORD CAMPUS

Milford, NE 68405
(402)761-2131 (004723)

Tuition (Full Time):
Resident: $128.00 Non Resident: $100.00

Solar Related Courses

Solar Energy, Architectural
Course Number: 5700253
Instructor: Roll, Dean R.
(402)761-2131 EXT.269
Department: Construction (Architectural)
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Contact Hours: 32.0
Classroom: 32.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Energy, Air Conditioning
Course Number: 4400653
Instructor: Roll, Dean R.
(402)761-2131 EXT.269
Department: Construction (Air Conditioning)
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Quarter)
Contact Hours: 32.0
Classroom: 32.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

UNIVERSAL TECHNICAL INSTITUTE

902 Capitol Avenue
Omaha, NE 68102
(402)345-2422 (060840)

Tuition (Full Time):
Resident: $235.00

Solar Related Courses

Advanced Heating and Air Conditioning
Instructor: Clary, Ed
Department: Refrigeration
Student Level: Skilled Labor
Duration: No. of weeks: 2.0
Hrs. per week: 30.0
Contact Hours: 60.0
Offered: Day
Course Fee: Resident: $235.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Heating; Solar Systems Design; Solar Systems Installation/ Maintenance

Nevada

Colleges and Universities

UNIVERSITY OF NEVADA AT LAS VEGAS

Las Vegas, NV 89154
(702)739-3011 (002569)

Solar Technical Training

*Solar Systems **
Department: Continuing Education; Nevada Solar Energy Association
Contact: Tryon, John G.
(702)739-3701
Program Training: General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/ Commercial; Solar Technology-Instrumentation; Controls; Design, Maintenance

Program and Curriculum Related Courses

*Solar Systems - Domestic Hot Water **
Instructor: Tryon, John G.
(702)739-3701
Department: Continuing Education, Nevada Solar Energy Association
Program: Solar Systems *
Student Level: All Levels
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 16.0
Classroom: 13.0
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water

*Solar Systems - Economics **
Instructor: Tryon, John G.
(702)739-3701
Department: Continuing Education, Nevada Solar Energy Association
Program: Solar Systems *
Student Level: All Levels
Duration: No. of weeks: 2.0
Hrs. per week: 10.0
Contact Hours: 20.0
Classroom: 20.0
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

*Solar Systems - Heating and Cooling of Buildings **
Instructor: Tryon, John G.
(702)739-3701
Department: Continuing Education, Nevada Solar Energy Association
Program: Solar Systems *
Student Level: All Levels
Duration: No. of weeks: 7.0
Hrs. per week: 4.0
Contact Hours: 28.0
Classroom: 28.0
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Heating

*Solar Systems - Swimming Pools **
Instructor: Tryon, John G.
(702)739-3701
Department: Continuing Education, Nevad Solar Energy Association
Program: Solar Systems *
Student Level: All Levels
Duration: No. of weeks: 2.0
Hrs. per week: 4.5

Contact Hours: 9.0
Classroom: 6.0
Field Trips: 3.0
Topics Covered Extensively: Solar Marketing/Economic Analysis; Plumbing Techniques; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Swimming Pool Heating

Solar Related Courses

Solar Heating *

Course Number: EGG 475X
Instructor: Tryon, John G. (702)739-3701
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

Topics in Physics: Solar Energy *

Course Number: PHY 100B
Instructor: Dundon, J. M. (702)739-3539
Department: Science/Mathematics, Engineering/Physics
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0

UNIVERSITY OF NEVADA AT RENO

Reno, NV 89557
(702)784-1110 (002568)

Solar Related Courses

Solar Energy *

Course Number: 483/783
Instructor: Hallect, J. (702)784-6792
Department: Arts and Science - Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer

Solar Engineering I

Course Number: ME 374
Instructor: McKee, Robert B. (702)784-6880
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 30.0
Lab: 45.0
Offered: Day
Course Fee: Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Junior and Community Colleges

CLARK COUNTY COMMUNITY COLLEGE

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

Solar Curriculum

Solar Energy Technology *

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

Program and Curriculum Related Courses

Advanced Solar Energy Technology *

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

Introduction to Solar Technology *

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

Passive Solar Heating and Cooling Technology *

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

Practicum in Solar Technology *

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

Solar Energy Technology - Home Owner *

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

New Hampshire

Colleges and Universities

DARTMOUTH COLLEGE

Hanover, NH 03755
(603)646-1110 (002573)

Tuition (Full Time):
Resident: $1,640.00

Solar Related Courses

Introduction to Solar Energy
Course Number: ES 6
Instructor: Converse, A. O. (603)646-2606
Department: Engineering Sciences, Thayer School
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $656.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Solar Energy Design
Course Number: ENGG 125
Instructor: Converse, A. O. (603)646-2606
Department: Thayer School of Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $656.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

NEW ENGLAND COLLEGE

Henniker, NH 03242
(603)428-2211 (002579)

Tuition (Full Time):
Resident: $1,775.00 Non Resident: $1,775.00

Solar Related Courses

Energy Issues
Course Number: ES 202
Instructor: Lemons, John (603)428-2374
Department: Environmental Studies
Student Level: All Levels; Professional
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 13.0
Hrs. per week: 4.0
Contact Hours: 52.0
Classroom: 52.0
Offered: Day
Course Fee: Resident: $460.00
Non Resident: $460.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

Renewable Energy
Course Number: ES 511
Instructor: Lemons, John (603)428-2374
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 13.0
Hrs. per week: 4.0
Contact Hours: 52.0
Classroom: 26.0
Field Trips: 26.0
Offered: Day
Course Fee: Resident: $460.00
Non Resident: $460.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Design

UNIVERSITY OF NEW HAMPSHIRE

Durham, NH 03824
(603)862-1234 (002589)

Tuition (Full Time):
Resident: $575.00 Non Resident: $1,750.00

Solar Related Courses

Solar Heating Systems
Course Number: ME 710
Instructor: Valentine, R. L. (603)862-1352 EXT.33
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Course Fee: Resident: $110.00
Non Resident: $340.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Solar Systems Design

UNIVERSITY OF NEW HAMPSHIRE PLYMOUTH STATE COLLEGE

Plymouth, NH 03264
(603)536-1550 (002591)

Solar Related Courses

Solar Energy Survey
Course Number: 74.111
Instructor: Neikam, W. C. (603)536-6550
Department: Natural Science
Student Level: All Levels; Layperson
Academic Credits: 1.5 (Semester)
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 20.0
Field Trips: 4.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Vocational / Technical Schools

NEW HAMPSHIRE VOCATIONAL TECHNICAL COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

Energy Survey and Alternative Systems
Course Number: M 940EV
Instructor: Magnon, David (603)668-6706
Department: Evening
Program: Solar Energy Certificate Program
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems

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

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

Solar Energy - A Prime Energy Resource
Course Number: M 942EV

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

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

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

NEW HAMPSHIRE VOCATIONAL TECHNICAL COLLEGE AT NASHUA

Nashua, NH 03060
(603)882-6923 (009236)

Solar Related Courses

Energy and Energy Sources
Course Number: 826
Instructor: Hagen, Lawrence (603)882-6923
Department: Math, Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Other Educational Institutions and Organizations

INSTITUTE FOR APPROPRIATE TECHNOLOGY

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

Tuition (Full Time):

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

Solar Related Courses

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

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

SOLAR SURVIVAL

Cherry Hill Road
Harrisville, NH 03450
(603)827-3797 (091110)

Tuition (Full Time):

Resident: $225.00 Non Resident: $225.00

Solar Related Courses

Solar Living
Instructor: Metropolitan College, Boston University
Department: Environmental School
Student Level: All Levels
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 6.0; Hrs. per week: 8.0
Contact Hours: 48.0
Classroom: 32.0
Workshop: 8.0
Job: 8.0
Offered: Weekend
Course Fee: Resident: $225.00; Non Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

TOTAL ENVIRONMENTAL ACTION INCORPORATED

Church Hill
Harrisville, NH 03450
(603)827-3374 (091130)

Solar Related Courses

Alternative Energy Workshops
Instructor: Holland, Elizabeth (603)827-3374
Student Level: All Levels; Professional; Layperson
Academic Credits: 1.0 (Monthly Sessions)
Contact Hours: 6.5
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

New Jersey

Colleges and Universities

FARLEIGH DICKENSON TEANECK CAMPUS

Teaneck, NJ 07666
(201)836-6300 (002607)

Solar Related Courses

Solar Energy *

Course Number: PH 431
Instructor: Wieden, S. (201)836-6300
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Appropriate Technology; Materials

GLASSBORO STATE COLLEGE

Glassboro, NJ 08028
(609)445-5000 (002609)

Curriculum with Solar Study

Energy and Transportation Concentration *

Degree: Master, Bachelor Arts
Department: Industrial Education; Technology
Contact: Weiss, Leigh (609)445-6209
Program Training: Solar Energy Education; Do-It-Yourself/Home Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Advanced Solar Energy Systems *

Instructor: Weiss, Leigh B. (609)445-6209
Department: Industrial Education and Technology
Program: Energy and Transportation Concentration *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 60.0
Lab: 36.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Energy *

Instructor: Weiss, Leigh B. (609)445-6209
Department: Industrial Education and Technology
Program: Energy and Transportation Concentration *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 17.0
Hrs. per week: 6.0
Contact Hours: 102.0
Classroom: 70.0
Lab: 32.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating

MONTCLAIR STATE COLLEGE

Valley Road & Normal Avenue
Upper Montclair, NJ 07043
(201)893-4000 (002617)

Curriculum with Solar Study

Industrial Powers

Degree: Bachelor Industrial Education, and Industrial Technology
Department: Industrial Education and Technology
Contact: Olsen, George (201)893-4161
Program Training: Solar Energy Education

Program and Curriculum Related Courses

Program: Industrial Powers

Alternate Energy Conversion Systems

Course Number: 484
Instructor: Greenwald, Martin (201)893-4163
Department: Industrial Education and Technology
Program: Industrial Powers
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day; Evening
Course Fee: Resident: $66.00
Non Resident: $132.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Wind Energy Conversion Systems

Course Number: 0390/0405
Instructor: Greenwald, Martin (701)893-4163
Department: Industrial Education and Technology
Program: Industrial Powers
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day; Evening
Course Fee: Resident: $66.00
Non Resident: $132.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Wind Energy Conversion Systems

NEW JERSEY INSTITUTE OF TECHNOLOGY

323 High Street
Newark, NJ 07102
(201)645-5321 (002621)

Tuition (Full Time):

Resident: $380.00 Non Resident: $760.00

Curriculum with Solar Study

Mechanical Engineering and Technology

Degree: Bachelor Mechanical Engineering Technology
Department: Mechanical Engineering
Contact: Kirchner, R. (201)645-5378
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Introduction to Solar Energy

Course Number: ME 480
Instructor: Kirchner, R. (201)645-5378
Department: Mechanical Engineering
Program: Mechanical Engineering and Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $26.00
Non Resident: $52.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Solar Energy Applications

Course Number: MET 417
Instructor: Kirchner, R. (201)645-5378
Department: Mechanical Engineering
Program: Mechanical Engineering and Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 45.0
Lab: 3.0
Offered: Day; Evening
Course Fee: Resident: $26.00
Non Resident: $52.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Heating Design

Instructor: Kirchner, R. (201)645-5378
Department: Mechanical Engineering
Program: Mechanical Engineering and Technology
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Design

PRINCETON UNIVERSITY

Princeton, NJ 08540
(609)452-3000 (002627)

Curriculum with Solar Study

*ergy Conversion and Resources **

ree: Doctorate, Master, Bachelor
Mechanical Engineering
Department: Engineering; Applied Science
Contact: Bogdonoff, Seymour M.
(609)452-5125

Program Training: Architecture-Solar Specialization; Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

*Characteristics and Technology of Materials **

Course Number: ENGR 202
Instructor: Royce, B. S. H.
(609)452-4681
Department: Mechanical and Aerospace Engineering
Program: Energy Conversion and Resources *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

*Energy and the Environment: A Quantitative Approach **

Course Number: ENGR 213
Instructor: Socolow, R.
(609)452-5446
Department: Mechanical and Aerospace Engineering
Program: Energy Conversion and Resources *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Energy Policy Development; Components-Solar; Solar Heating; Alternate Energy Sources

*Introduction to Solar Thermal Engineering **

Course Number: ENGR 101
Instructor: Antal, M. J.
(609)452-5136
Department: Mechanical and Aerospace Engineering
Program: Energy Conversion and Resources *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 20.0
Lab: 19.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Heating

*Physical Processes of Energy Conversion **

Course Number: MAE 328
Instructor: Miles, R. B.
(609)452-5131
Department: Mechanical and Aerospace Engineering
gram: Energy Conversion and Resources *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems

*Special Topics in Power and Propulsion **

Course Number: MAE 587
Instructor: Antal, M. J.
(609)452-5136
Department: Mechanical and Aerospace Engineering
Program: Energy Conversion and Resources *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Topics Covered Extensively: Bioconversion; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Process Heat; Solar Heating

*States of Matter **

Course Number: MAE 324
Instructor: Royce, B. S. H.
(609)452-4681
Department: Mechanical and Aerospace Engineering
Program: Energy Conversion and Resources *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

RAMAPO COLLEGE OF NEW JERSEY

505 Ramapo Valley Road
Mahwah, NJ 07430
(201)825-2800 (009344)

Solar Related Courses

Alternate Energy System Design

Course Number: PHYS 400
Instructor: Makofske, William
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Alternative Energy Sources

Course Number: 300
Instructor: Makofske, William
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Alternative Energy Workshop

Course Number: 300
Instructor: Greenwald, M.
Makofsky, W.
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 24.0
Lab: 40.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Energy Efficient Solar Design

Course Number: 300
Instructor: Makofsky, William
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design

Energy, Power and the Environment

Course Number: 200-300
Instructor: Makofsky, William
Department: Environmental Studies
Student Level: All Levels
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 64.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

RIDER COLLEGE

P O Box 6400
Lawrenceville, NJ 08638
(609)896-0800 (002628)

Tuition (Full Time):

Resident: $324.00 Non Resident: $324.00

Solar Related Courses

Solar Energy in the Home

Course Number: 39-064
Instructor: Witt, Jerry
Department: Mathematics and Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 4.0
Hrs. per week: 7.5
Contact Hours: 30.0
Offered: Day
Course Fee: Resident: $324.00
Non Resident: $324.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Systems Design

RUTGERS UNIVERSITY

New Brunswick, NJ 08903
(201)932-1766 (006964)

Tuition (Full Time):
Resident: $516.00 Non Resident: $932.00

Solar Related Courses

Solar Thermal Energy Collection and Storage
Course Number: 650:474
Instructor: Briggs, David G. (201)932-3656
Department: Mechanical, Industrial and Aero. Eng.
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling

STOCKTON STATE COLLEGE

Pomona, NJ 08240
(609)652-1776 (009345)

Tuition (Full Time):
Resident: $352.00 Non Resident: $704.00

Solar Related Courses

Solar Energy
Course Number: PHYS 3320
Instructor: Taylor, Harold (609)652-1776
Department: Natural Sciences and Mathematics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Offered: Evening
Course Fee: Resident: $88.00; Non Resident: $176.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy: Theory and Design
Instructor: Taylor, Harold E. (609)652-1776 EXT.433
Department: Center for Environmental Research
Student Level: All Levels
Duration: No. of weeks: 8.0; Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Evening
Course Fee: Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Systems Design

Solar Heating Workshop
Instructor: Taylor, Harold E. (609)652-1776 EXT.433
Department: Center for Environmental Research
Student Level: All Levels
Contact Hours: 3.0
Classroom: 3.0
Offered: Weekend
Course Fee: Resident: $5.00; Non Resident: $5.00
Prerequisites: No
Topics Covered Extensively: Solar Heating

Junior and Community Colleges

BERGEN COMMUNITY COLLEGE

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

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

BROOKDALE COMMUNITY COLLEGE

Newman Springs Road
Lincroft, NJ 07738
(201)842-1900 (008404)

Tuition (Full Time):
Resident: $250.00 Non Resident: $1,000.00

Solar Related Courses

Solar Energy: Its Nature and Use
Course Number: NSC 78A
Instructor: Zigo, Paul (201)842-1900 EXT.422
Department: Natural and Applied Science
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $63.00; Non Resident: $252.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

CUMBERLAND COUNTY COLLEGE

P O Box 517
Vineland, NJ 08332
(609)691-8600 (002601)

Tuition (Full Time):
Resident: $45.00

Solar Related Courses

Fundamentals of Solar Heating
Instructor: Menz, P. G. (604)691-8600 EXT.59
Department: Science Technology
Student Level: Professional; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 6.0; Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 15.0
Workshop: 3.0
Offered: Weekend
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Vocational / Technical Schools

SSUNPINK CENTER-MERCER COUNTY AREA VOCATIONAL SCHOOLS

1085 Old Trenton Road
Trenton, NJ 08690
(609)586-5144 (090560)

Tuition (Full Time):
Resident: $0.00

Solar Related Courses

Air Conditioning and Refrigeration

Instructor:	Lewgyel, Stephen (609)586-5144
Student Level:	Skilled Labor; All Levels
Academic Credits:	15.0 (Year-Round Program)
Duration:	No. of weeks: 72.0 Hrs. per week: 15.0
Contact Hours:	1090.0
Classroom:	360.0
Lab:	730.0
Offered:	Day
Course Fee:	Resident: $0.00
Prerequisites:	No

CAPE MAY COUNTY VOCATIONAL TECHNICAL CENTER

Crest Haven Road
Cape May Court House, NJ 08210
(609)465-3064 (060688)

Solar Related Courses

Introduction to Energy Resources: Wind, Solar

Instructor:	Siefken, Herbert (609)465-3064
Department:	Mechanical-Electrical Technology
Duration:	No. of weeks: 10.0 Hrs. per week: 15.0
Contact Hours:	150.0
Classroom:	75.0
Independent Study:	25.0
Lab:	50.0
Offered:	Day; Evening
Prerequisites:	Yes

Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Law/Legislation; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

ESSEX COUNTY TECHNICAL CAREER CENTER

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

Solar Related Courses

Solar Energy

structor:	Williams, Wayne R. (201)622-1100 EXT.256
Department:	Heating, Refrig. & Air Conditioning
Student Level:	Skilled Labor
Contact Hours:	500.0
Classroom:	250.0
Workshop:	125.0
Lab:	125.0
Offered:	Day; Evening
Prerequisites:	Yes

Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling

PASSAIC SCHOOL OF DRAFTING

657 Main Avenue
Passaic, NJ 07055 (090080)

Solar Technical Training

Solar Energy Design *

Degree:	Architectural Draftsman
Department:	Architectural Drafting
Contact:	Adamoff, O. J. (201)777-4909

Program and Curriculum Related Courses

Architectural Drafting, Solar Energy Design *

Instructor:	Stix, G. H. (201)777-4909
Department:	Architectural Drafting
Program:	Solar Energy Design *
Student Level:	All Levels
Duration:	No. of weeks: 4.0 Hrs. per week: 25.0
Contact Hours:	100.0
Classroom:	10.0
Lab:	90.0

Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Systems Design; Solar Systems Testing/Evaluation

SOUTHERN NEW JERSEY OIC

Camden, NJ 08104 (090070)

Solar Technical Training

Solar Energy Unit Installer Program *

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

Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Solar Energy Installer *

Instructor:	Keene, Joseph P. (609)966-2545
Program:	Solar Energy Unit Installer Program *
Student Level:	All Levels
Duration:	No. of weeks: 26.0 Hrs. per week: 5.0
Contact Hours:	130.0

Topics Covered Extensively: Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating

UNION COUNTY TECHNICAL INSTITUTE

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

Solar Related Courses

Solar Heating I *

Course Number:	HV 201-71
Instructor:	Mai, Frank (201)889-2000
Department:	Heating, Ventilating, Air Cond.
Student Level:	All Levels
Duration:	No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours:	45.0
Classroom:	15.0
Lab:	30.0

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Plumbing Techniques; Sheet Metal Techniques; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Heating; Solar Cooling

New Mexico

Colleges and Universities

COLLEGE OF SANTA FE

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

Tuition (Full Time):
Resident: $35.00 Non Resident: $35.00

Solar Technical Training

Solar Energy
Degree: Certificate
Department: Continuing Education
Contact: Osborne, Alan C. (505)982-0295
Program Training: Scientific Research and Development in Solar Energy; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

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

Solar Adobe Construction
Instructor: Chalom, Mark; Wilson, Quentin (505)583-2356
Department: Continuing Education
Program: Solar Energy
Student Level: All Levels; Layperson
C.E.U.'s: 2.5
Duration: No. of weeks: 8.0; Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 24.0
Offered: Evening
Course Fee: Resident: $35 Non Resident: $35
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems; Plumbing Techniques; Process Heat; Solar Heating; Solar Home Construction

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

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

NEW MEXICO HIGHLANDS UNIVERSITY

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

Solar Technical Training

*Solar Greenhouse Construction **
Contact: Martinez, E. Eloy (505)425-7511

Program and Curriculum Related Courses

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

Solar Related Courses

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

NEW MEXICO STATE UNIVERSITY

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

Tuition (Full Time):
Resident: $304.00 Non Resident: $872.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

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

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

Solar Thermal Power
Course Number: ME 575
Instructor: Smith, P. R. (505)646-3501

Department: Mechanical Engineering
Program: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
ntact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $75.00
Non Resident: $216.00
Topics Covered Extensively: Distributed Solar Power Systems

Solar Technical Training

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

UNIVERSITY OF NEW MEXICO

Albuquerque, NM 87131
(505)277-0111 (010313)

Tuition (Full Time):
Resident: $309.00 Non Resident: $933.00

Solar Related Courses

Applied Solar Energy - Engineering Systems
Course Number: ME 425
Instructor: Wildin, M. W.
(505)277-5613
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $78.00
Non Resident: $234.00
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Systems Design

Energy Utilization and Conversion
Course Number: 382
Instructor: Houghton, A. V.
(505)277-5604
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Energy Policy Development

Power Generating Systems
Course Number: ME 483
Instructor: Houghton, A. V.
(505)277-5604
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
uration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Energy Conservation; Materials; Plumbing Techniques; Sheet Metal Techniques; Solar Marketing/Economic Analysis

Solar Energy System Design and Analysis
Course Number: M.E. 525
Instructor: Wildin, M. W.
(505)277-5613
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Offered: Day; Evening
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design

Solar Energy Use
Course Number: 385
Instructor: Ebenezer, J.
(505)277-5221
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Junior and Community Colleges

NORTHERN NEW MEXICO COMMUNITY COLLEGE

El Rito, NM 87530
(505)581-4501 (029087)

Solar Related Courses

Solar Adobe Design and Construction
Instructor: Wilson, Quentin C.
(505)583-2356
Department: Continuing Education, Community Services
Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Classroom: 24.0
Topics Covered Extensively: Solar Home Construction; Solar Systems Design

Vocational / Technical Schools

ALBUQUERQUE TECHNICAL VOCATIONAL INSTITUTE

525 Buena Vista SE
Albuquerque, NM 87106
(505)843-7250 (060698)

Tuition (Full Time):
Resident: $150.00 Non Resident: $550.00

Solar Related Courses

Solar Applications
Course Number: 92083-01
Instructor: Blue, Todd I.
(505)843-7250 EXT.234
Department: Trade and Industrial
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 75.0
Offered: Day
Course Fee: Resident: $20.00
Non Resident: $28.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

VOCATIONAL TECHNICAL INSTITUTE

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

Tuition (Full Time):
Resident: $4,000.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

New York

Colleges and Universities

ADELPHI UNIVERSITY

Garden City, NY 11530
(516)294-8700 (002666)

Curriculum with Solar Study

Energy Institute *

Degree: Master, Bachelor
Physics - Energy Studies
Department: Physics
Contact: Dooher, John
(516)294-8700

Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Physics of Energy *

Course Number: 117
Instructor: Burke, Edward
(516)294-8700
Department: Physics
Program: Energy Institute *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Heating and Cooling *

Course Number: 670
Instructor: Garrell, Martin
(516)294-8700
Department: Physics
Program: Energy Institute *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Energy Policy Development; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Solar Heating; Solar Cooling

BARD COLLEGE

Annandale-On-Hudson, NY 12504
(914)758-6822 (002671)

Tuition (Full Time):

Resident: $3,550.00 Non Resident: $2,550.00

Solar Related Courses

Alternative Energy Sources

Instructor: Brody, Burton
(914)758-6822
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 4.0
Contact Hours: 42.0
Classroom: 32.0
Lab: 2.0
Field Trips: 8.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

CITY COLLEGE OF CUNY

140 Street & Convent Avenue
New York, NY 10031
(212)790-4395 (002688)

Solar Related Courses

Solar Energy Thermal Process

Course Number: ME 5533
Instructor: Menkes, S. B.
(212)690-6705
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Evening
Course Fee: Resident: $250.00
Non Resident: $250.00
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Principles and Applications of Solar Energy *

Instructor: Lusting, M.
(212)690-6850
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Introduction to Solar Energy

CITY UNIVERSITY OF NEW YORK BROOKLYN COLLEGE

Brooklyn, NY 11210
(212)780-5485 (002687)

Tuition (Full Time):

Resident: $77.50 Non Resident: $140.50

Curriculum with Solar Study

Energy Related Topics

Department: Physics
Contact: Celenza, L. S.
(212)780-5813

Program Training: Solar Energy Education; Solar Energy Administration/Policy; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy in a Technological Society

Instructor: Celenza, L. S.
(212)780-5813
Department: Physics
Program: Energy Related Topics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 23
Contact Hours: 45.0
Offered: Day
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems.

Solar Related Courses

Energy in a Technological Society

Course Number: PHYS 0.3
Instructor: Celenza
(212)780-5813
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $105.00
Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Energy Technology

Course Number: PHYS 38
Instructor: Skulnik
(212)780-5817
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Course Fee: Resident: $105.00
Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Ocean Systems; Photoconversion; Satellite Solar Power Systems; Solar Domestic Hot Water; Wind Energy Conversion Systems

Seminar Series on Energy and Solar Energy

Instructor: Schwartz, Brian
(212)780-5687
Department: Science
Student Level: College Graduate
Topics Covered Extensively: Photovoltaics and Solar Cells

CITY UNIVERSITY OF NEW YORK COLLEGE OF STATEN ISLAND

Staten Island, NY 10301
(212)720-3000 (029040)

Solar Related Courses

Solar Energy *

Course Number: MET 108
Instructor: Nankivell, John
(212)390-7624
Department: Mechanical Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0

CLARKSON COLLEGE OF TECHNOLOGY

Potsdam, NY 13676
(315)268-6400 (002699)

Tuition (Full Time):

Resident: $4,000.00

Solar Related Courses

Alternate Sources of Energy
Course Number: ME 315
Instructor: Clark, James
(315)268-6575
Department: Mechanical and Industrial Engineering
udent Level: College Junior/Senior
ademic Credits: 3.0 (Semester)
ration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 27.0
Seminar: 9.0
Independent Study: 9.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

COLGATE UNIVERSITY

Hamilton, NY 13346
(315)824-1000 (002701)

Solar Related Courses

Energy and Society
Course Number: UNST 209
Instructor: Gasparro, F.
(315)824-1000 EXT.231
Department: University Studies
Student Level: All Levels
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Wind Energy Conversion Systems

COLUMBIA UNIVERSITY MAIN DIVISION

New York, NY 10027
(212)280-1754 (002707)

Solar Related Courses

Solar Energy Applications
Course Number: MEE 4224X
Instructor: Sanders, W. T.
(212)280-4126
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 36.0
Field Trips: 6.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

CORNELL UNIVERSITY

·7 Day Hall
ıaca, NY 14853
ıo07)256-1000 (011693)

Solar Related Courses

Energy and Man
Course Number: 201
Instructor: Albright, L. D.
(607)256-4535
Department: Agricultural Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

HAMILTON COLLEGE

Clinton, NY 13323
(315)859-4011 (002728)

Solar Related Courses

The Physics of Energy
Course Number: 170
Instructor: Ring, J. W.
(315)859-7510
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.5
Hrs. per week: 20.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems

MANHATTAN COLLEGE

Bronx, NY 10471
(212)548-1400 (002758)

Solar Related Courses

Direct Energy Conversion
Course Number: 735
Instructor: Ley, James
(212)548-1400
Department: Engineering, Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Energy Conversion Systems
Course Number: 710
Instructor: Koplik, Bernard
(212)548-1400
Department: Engineering, Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer

Energy Sources
Course Number: 466
Instructor: Ley, James
(212)548-1400
Department: Engineering, Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer

Radiation Heat Transfer
Course Number: 709
Instructor: Chen, Leon
(212)548-1400
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Solar Energy Systems
Course Number: 711
Instructor: Chen, Leon
(212)548-1400
Department: Mechanical Engineering
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design

NAZARETH COLLEGE OF ROCHESTER

4245 East Avenue
Rochester, NY 14610
(716)586-2525 (002779)

Solar Related Courses

Energy, Our Servant - Our Problem
Course Number: CHM 111
Instructor: Gannaway, Susan
(716)586-2525
Department: Chemistry
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Energy Policy Development; Solar Heating

NEW YORK INSTITUTE OF TECHNOLOGY

Wheatly Road
Old Westbury, NY 11746
(516)686-7593 (004804)

Tuition (Full Time):

Resident: $1,570.00 Non Resident: $1,570.00

Solar Related Courses

Energy Conservation
Course Number: ARCH 6919
Instructor: Wilke, Douglas
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0

Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $285.00
Non Resident: $285.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

NEW YORK UNIVERSITY

Washington Square
New York, NY 10003
(212)598-1212 (002785)

Solar Technical Training

*Solar Energy **
Degree: Certificate
Department: Continuing Education
Contact: Philipps, Denis Sinclair
(212)598-2101

Program and Curriculum Related Courses

*Solar Energy **
Instructor: Wilke, Douglas A.
(516)759-9050
Department: Continuing Education
Program: Solar Energy *
C.E.U.'s: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 24.0
Contact Hours: 24.0
Workshop: 24.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Plumbing Techniques; Process Heat; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Solar Related Courses

Practicum in Technical Problem Solving IV Solar Energy
Instructor: Hahn, Marshall S.
(212)598-3356
Department: Technology and Industrial Education
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $408.00
Non Resident: $408.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design; Solar Systems Installation/Maintenance

Research and Development I
Course Number: E31 2210
Instructor: Hahn, M.
(212)598-3356
Department: Technology and Industrial Education
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $408.00
Non Resident: $408.00
Topics Covered Extensively: Components-Solar; Energy Conservation; Greenhouse Techniques; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water

Solar Energy - An Introduction
Course Number: E31 1200
Instructor: Hahn, M.
(212)598-3356
Department: Technology and Industrial Education
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Workshop: 15.0
Lab: 15.0
Offered: Evening
Course Fee: Resident: $408.00
Non Resident: $408.00
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

POLYTECHNIC INSTITUTE NEW YORK

Brooklyn, NY 11201
(212)643-5000 (002796)

Solar Related Courses

*Solar Energy for Heating and Cooling **
Course Number: ES 929
Instructor: Scarl, Donald
(516)694-5500
Department: Interdepartmental
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Components-Solar; Solar Home Construction; Solar Systems Design

PRATT INSTITUTE

215 Ryerson Street
Brooklyn, NY 11205
(212)636-3600 (002798)

Solar Related Courses

Design
Course Number: ARCH 101/404P
Instructor: Karalis, Constantine
(212)636-3405
Department: Architecture
Topics Covered Extensively: Solar Home Construction

Energy Conservation
Course Number: ARCH 534P
Instructor: Karalis, Constantine
(212)636-3405
Department: Architecture
Topics Covered Extensively: Energy Conservation

Life Support Systems, 211
Course Number: ARCH 211
Instructor: Karalis, Constantine
(212)636-3405
Department: Architecture
Student Level: College Freshman/Sophomo
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Seminar: 45.0
Offered: Day
Course Fee: Resident: $379.00
Non Resident: $379.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

Life Support Systems, 212
Course Number: ARCH 212
Instructor: Karalis, Constantine
(212)636-3405
Department: Architecture
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 15.0
Seminar: 45.0
Offered: Day
Course Fee: Resident: $379.00
Non Resident: $379.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

Systems Building
Course Number: ARCH 104
Instructor: Karalis, Constantine
(212)636-3405
Department: Architecture
Topics Covered Extensively: Solar Systems Design

QUEENS COLLEGE

Kissena Boulevard
Flushing, NY 11367
(212)445-7500 (002690)

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

Solar Related Courses

Home Energy Insulation
Instructor: Zelazny, Ray
(212)520-7179
Department: Continuing Education Program
Student Level: All Levels; Layperson
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Workshop: 20.0
Offered: Evening; Weekend
Course Fee: Resident: $50.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Passive Solar Systems

RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY 12181
(518)270-6000 (002803)

Tuition (Full Time):
sident: $4,375.00 Non Resident: $4,375.00

Solar Related Courses

Energy Conscious Design
Course Number: 10.4T01
Instructor: Kroner, Walter
(518)270-6461
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $450.00
Non Resident: $450.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Materials; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

Heat Transfer in Solar Devices
Course Number: 37.470
Instructor: Modest, M. F.
(518)270-6545
Scaringe, R.
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day

*Solar Energy System **
Course Number: 35.446
Instructor: Shen, C. N.
(518)270-6486
Department: Electrical and Systems Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Solar Cooling; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

ROCHESTER INSTITUTE OF TECHNOLOGY

One Lomb Memorial Drive
Rochester, NY 14623
(716)464-2411 (002808)

Solar Related Courses

Alternate Energy Sources
Course Number: EMEM 601
Instructor: Walter, W. W.
(716)475-2925
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 44.0
Offered: Day
Course Fee: Resident: $396.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

SAINT BONAVENTURE UNIVERSITY

Saint Bonaventure, NY 14778
(716)375-2000 (002817)

Solar Related Courses

*Alternative Energy Sources **
Course Number: PHSC 115
Instructor: Neeson, John
(716)375-2516
Department: Physics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer

SAINT JOHN FISHER COLLEGE

3690 East Avenue
Rochester, NY 14618
(716)586-4140 (002821)

Tuition (Full Time):
Resident: $2,704.00 Non Resident: $1,744.00

Solar Related Courses

Energy: Its Science and Technology
Course Number: SCI 200
Instructor: Heininger, Clarence
(716)586-4140
Department: Chemistry
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Non Resident: $255.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Wind Energy Conversion Systems

STATE UNIVERSITY OF NEW YORK AGRICULTURAL AND TECHNICAL COLLEGE

Canton, NY 13617 (002855)

Tuition (Full Time):
Resident: $560.00 Non Resident: $780.00

Solar Related Courses

Practical Applications of Solar Energy
Course Number: 30302/30301
Instructor: Emhof, Carson A.
(315)386-7313
Department: Civil - Construction
Student Level: All Levels; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 75.0
Offered: Day; Evening
Course Fee: Resident: $80.00
Non Resident: $162.00
Prerequisites: No

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

Vestal Parkway East
Binghamton, NY 13901
(607)798-2000 (002836)

Tuition (Full Time):
Resident: $1,013.00 Non Resident: $1,613.00

Curriculum with Solar Study

Physics - Specialization in Solar Energy
Degree: Bachelor
Physics-Specialization in Solar Energy
Department: Physics
Contact: Stannard, C. R.
(607)798-2217
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Introduction to Solid State Physics
Course Number: 284
Instructor: Stannard, C. R.
(607)798-2217
Department: Physics
Program: Physics - Specialization in Solar Energy
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0
Offered: Day
Course Fee: Resident: $108.00
Non Resident: $328.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Materials

Physics of Solar and Solar-Related Energy
Course Number: Physics 109
Instructor: Stannard, C. R.
(607)798-2217
Department: Physics, Applied Physics and Astronomy
Program: Physics - Specialization in Solar Energy
Student Level: All Levels
Academic Credits: 4.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Independent Study: 15.0
Offered: Day
Course Fee: Resident: $108.00
Non Resident: $328.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Related Courses

Energy Sources and Conversion
Course Number: BT 1992
Instructor: DePuy, George (607)798-2631
Department: General Studies
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Wind Energy Conversion Systems

STATE UNIVERSITY OF NEW YORK AT BUFFALO

Amherst, NY 14260
(716)831-9000 (002837)

Solar Related Courses

Advanced Thermodynamics *
Course Number: ENS 529
Instructor: Springer, R. (716)831-5472
Department: Engineering Science
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Direct Energy Conversion *
Course Number: NUE 570
Instructor: Springer, R. (716)831-5472
Department: Engineering Science
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems; Heat and Energy Transfer; Photovoltaics and Solar Cells

Electrophysics Laboratory I *
Course Number: EE 557
Instructor: Malone, D. (716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Lab: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Electrophysics Laboratory II *
Course Number: EE 558
Instructor: Malone, D. (716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Lab: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Energy Engineering I *
Course Number: ENS 410/510
Instructor: Springer, R. (716)831-5472
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems

Energy Engineering II *
Course Number: ENS 411
Instructor: Springer, R. (716)831-5472
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Lab: 60.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Heat and Energy Transfer

Energy Systems I *
Course Number: ME 431
Instructor: Gebhardt, B. (716)636-2593
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Heat and Energy Transfer

Energy Systems II *
Course Number: ME 432
Instructor: Gebhardt, B. (716)636-2593
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Heat and Energy Transfer

Environmental Heat and Mass Transfer *
Course Number: ME 568
Instructor: Gebhardt, B. (716)636-2593
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer

Heat and Mass Transport *
Course Number: ENS 392
Instructor: Springer, R. (716)831-5472
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Heat Transfer I *
Course Number: ME 545
Instructor: Gebhardt, B. (716)636-2593
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Heat Transfer II *
Course Number: ME 546
Instructor: Gebhardt, B. (716)636-2593
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Physical Electronics *
Course Number: EE 350
Instructor: Malone, D. (716)636-2422
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Radiation Heat Transfer *
Course Number: ME 547
Instructor: Gebhardt, B. (716)636-2593
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Heat and Energy Transfer

Semi Conductor Electronics *
Course Number: EE 464
Instructor: Malone, D. (716)636-2422
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Semi-Conductors I *
Course Number: EE 563
Instructor: Malone, D. (716)636-2422
Department: Electrical Engineering
Student Level: College Graduate

Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy ransfer; Passive Solar Systems

Semi-Conductors II *
Course Number: EE 564
Instructor: Malone, D.
(716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Solar Energy Engineering *
Course Number: ENS463/553
Instructor: Springer, R.
(716)831-5472
Department: Engineering Science
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 60.0
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

Solid-State Electrical Engineering I *
Course Number: EE 554
Instructor: Malone, D.
(716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Solid-State Electrical Engineering II *
Course Number: EE 555
Instructor: Malone, D.
(716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Solid-State Optical Devices *
Course Number: EE 656
Instructor: Malone D.
(716)636-2422
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
:ontact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

STATE UNIVERSITY OF NEW YORK COLLEGE AT BROCKPORT

Brockport, NY 14420
(716)395-2211 (002841)

Solar Related Courses

Solar Energy
Course Number: ESC 425
Instructor: Geer, Ira W.
(716)395-2636
Department: Earth Sciences
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 1.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

STATE UNIVERSITY OF NEW YORK COLLEGE AT GENESEO

Geneseo, NY 14454
(716)245-5211 (002845)

Solar Related Courses

Energy Education Workshop - Solar Energy
Course Number: INT 979
Instructor: Kinsey, K. F.
(716)245-5283
Department: Physics
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 1.0
Hrs. per week: 15.0
Contact Hours: 15.0

STATE UNIVERSITY OF NEW YORK COLLEGE AT ONEONTA

Oneonta, NY 13820
(607)431-3500 (002847)

Tuition (Full Time):

Resident: $497.50 Non Resident: $797.50

Solar Related Courses

Energy Crisis: Implications for Housing
Course Number: H EC 285
Instructor: Tyler, Loraine L.
(607)431-2704
Department: Home Economics
Student Level: College Junior/Senior; Professional; Skilled Labor
Academic Credits: 1.0 (Semester)
C.E.U.'s: 1.0
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Day; Evening
Course Fee: Resident: $92.55
Non Resident: $152.55
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

Solar Energy
Course Number: Physics 225
Instructor: James, Reuben J.
(607)431-3192
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0
Hrs. per week: 4.0
Contact Hours: 20.0
Classroom: 10.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $92.55
Non Resident: $152.55
Prerequisites: Yes
Topics Covered Extensively: Hybrid Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

The Energy Crisis
Course Number: PH 123
Instructor: Read, A. J.
(607)432-8904
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Day
Course Fee: Resident: $92.55
Non Resident: $152.55
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

STATE UNIVERSITY OF NEW YORK AT OSWEGO

Washington Boulevard
Oswego, NY 13126
(315)341-2500 (002848)

Solar Related Courses

Energy From Nature to Man *
Course Number: 105
Instructor: Hinrichs, R.
(315)341-2388
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Energy Technologies and Efficient Residential Fuel Utilization *
Course Number: ES 315-515
Instructor: Hinrichs, R.
(315)341-4252
Salvagin, C.
Schneider, R.
Department: Physics, Earth Science, Industrial Arts
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 6.0
Hrs. per week: 6.7
Contact Hours: 40.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Wind Energy Conversion Systems

Thermodynamics and Applications *

Course Number: 340
Instructor: Hinrichs, R. (315)341-2388
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Solar Heating; Solar Systems Design

Using Solar Energy for Residential Heating

Course Number: CE 380
Instructor: Gerbracht, Carl (315)341-3028
Department: Industrial Arts and Technology
Student Level: Layperson
Contact Hours: 6.0
Classroom: 6.0
Offered: Evening
Course Fee: Resident: $15.00
Non Resident: $15.00
Prerequisites: No

STATE UNIVERSITY OF NEW YORK COLLEGE AT PLATTSBURGH

Plattsburgh, NY 12901
(518)564-2000 (002849)

Tuition (Full Time):

Resident: $750.00 Non Resident: $1,500.00

Curriculum with Solar Study

Environmental Science, Alternate Energy

Degree: Bachelor
Environmental Science
Department: Institute for Man and Environment
Contact: Dawson, James C. (518)564-2178

Program and Curriculum Related Courses

Energy Systems

Course Number: ENV 309
Instructor: Kissner, Fritz (518)564-2178
Department: Institute for Man and Environment
Program: Environmental Science, Alternate Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Wind Energy Conversion Systems

Residential Research Semester

Course Number: ENV 313/318
Instructor: Dawson, James C. (518)564-2178
Department: Institute for Man and Environment
Program: Environmental Science, Alternate Energy
Student Level: College Junior/Senior
Academic Credits: 15.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 45.0
Contact Hours: 675.0
Classroom: 75.0
Lab: 600.0
Offered: Day
Course Fee: Resident: $750.00
Non Resident: $1,500.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Related Courses

Energy - Resources and Conservation

Course Number: GEL 385
Instructor: Barnett, S. G. (518)564-3107
Department: Earth Sciences
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00
Non Resident: $150.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy

Course Number: PHY 301
Instructor: Szydlik, Paul (518)564-2048
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00
Non Resident: $150.00
Prerequisites: Yes

STATE UNIVERSITY OF NEW YORK COLLEGE AT STONY BROOK MAIN CAMPUS

Stony Brook, NY 11794
(516)246-5000 (002838)

Solar Related Courses

Energy and the Environment 110 *

Course Number: PHY 110
Instructor: Lee, L. L. (516)246-6102
Department: Physics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer

Energy and the Environment 549 *

Course Number: CEN 549
Instructor: Fox, David (516)246-6106
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

STATE UNIVERSITY OF NEW YORK COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

Syracuse, NY 13210
(315)473-8611 (002851)

Tuition (Full Time):

Resident: $2,250.00 Non Resident: $2,250.00

Solar Related Courses

Energy: Production and Conservation

Course Number: ERE 611
Instructor: Palmer, David G. (315)473 8706
Department: Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Day
Course Fee: Resident: $450.00
Non Resident: $450.00
Prerequisites: Yes
Topics Covered Extensively: Bioconversion; Energy Conservation

STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY

811 Court Street
Utica, NY 13502
(315)792-3400 (006792)

Tuition (Full Time):

Resident: $468.00 Non Resident: $768.00

Solar Related Courses

Energy Conservation in Industrial Processes

Course Number: ITC 351
Instructor: Galbiati, Louis (315)792-3506
Department: Engineering Technology
Student Level: College Junior/Senior; Managerial; Professional
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 64.0
Lab: 12.0
Offered: Day; Evening
Course Fee: Resident: $127.00
Non Resident: $204.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

Energy Conservation Techniques

Course Number: TGY 352
Instructor: Galbiati, Louis (315)792-3506
Department: Engineering Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0

Classroom: 32.0
Lab: 12.0
Offered: Day; Evening
Course Fee: Resident: $66.00
Non Resident: $106.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

Solar Energy Concepts
Course Number: TGY 450
Instructor: Galbiati, Louis
(315)792-3506
Department: Engineering Technology
Student Level: College Junior/Senior; Managerial
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 64.0
Lab: 12.0
Offered: Day; Evening
Course Fee: Resident: $127.00
Non Resident: $204.00
Topics Covered Extensively: Introduction to Solar Energy

Solar Energy Techniques
Course Number: MTC 350
Instructor: Galbiati, Louis
(315)792-3506
Department: Engineering Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 32.0
Lab: 12.0
Offered: Day; Evening
Course Fee: Resident: $68.00
Non Resident: $106.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

SYRACUSE UNIVERSITY MAIN CAMPUS

Syracuse, NY 13210
(315)423-1870 (002882)

Tuition (Full Time):

Resident: $2,250.00

Solar Related Courses

Solar Energy Applications
Course Number: MEE 587
Instructor: LaGraff, John E.
(315)423-4366
Department: Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0
Offered: Evening
Course Fee: Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Solar Heating; Solar Systems Design

UNION COLLEGE

Schenectady, NY 12308
(518)370-6000 (002889)

Solar Related Courses

Solar Energy Analysis and Design *
Course Number: ME 144
Instructor: Aubrey, William C.
(518)370-6266
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.3
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Heating

UNITED STATES MERCHANT MARINE ACADEMY

Kings Point, NY 11024
(516)482-8200 (002892)

Solar Related Courses

Physics of Solar Energy *
Course Number: M 436
Instructor: Drago, P.
Department: Mathematics and Science
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 27.0
Lab: 3.0
Topics Covered Extensively: Heat and Energy Transfer; Solar Domestic Hot Water

UNIVERSITY OF ROCHESTER

Rochester, NY 14627
(716)275-2121 (002894)

Tuition (Full Time):

Resident: $4,750.00 Non Resident: $4,750.00

Solar Related Courses

Energy Conversion
Course Number: MAS 252
Instructor: Lubin, M.
(716)275-5204
Department: Mechanical and Aerospace Sciences
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Storage Systems; Photoconversion; Photovoltaics and Solar Cells

VASSAR COLLEGE

Poughkeepsie, NY 12601
(914)452-7000 (002895)

Solar Related Courses

Environmental Physics *
Course Number: 102
Instructor: Stearns, R. L.
Department: Physics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 39.0

WELLS COLLEGE

Aurora, NY 13026
(315)364-3011 (002901)

Tuition (Full Time):

Resident: $5,950.00

Solar Related Courses

Appropriate Technology
Course Number: Biology 400
Instructor: Vawter, A. Thomas
(315)364-3211
Department: Biology
Student Level: College Junior/Senior
Academic Credits: 3.3 (Four-One-Four)
Duration: No. of weeks: 13.0
Hrs. per week: 4.0
Contact Hours: 52.0
Classroom: 48.0
Seminar: 4.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Wind Energy Conversion Systems

Junior and Community Colleges

ADIRONDACK COMMUNITY COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

CAYUGA COUNTY COMMUNITY COLLEGE

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

Solar Technical Training

Solar Energy Technology *

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

Program and Curriculum Related Courses

Solar Heating Energy *

Instructor: Simkin, Robert (315)364-8065
Department: Science
Program: Solar Energy Technology *
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0

Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Heating

CITY UNIVERSITY OF NEW YORK, NEW YORK CITY COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $387.50 Non Resident: $712.00

Curriculum with Solar Study

Environmental Control Technology

Degree: Associate Applied Science
Department: Technology
Contact: Lomask, Samuel (212)239-1696 EXT.1658
Program Training: Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Environmental Design I

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

Environmental Design Laboratory

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

Environmental System Design

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

Hydronic Systems Design

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

COLUMBIA-GREENE COMMUNITY COLLEGE

Hudson, NY 12534
(518)828-4181 (006789)

Solar Related Courses

Solar Energy *

Course Number: CE 005
Instructor: Drum, Donald A. (518)828-4181
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

CORNING COMMUNITY COLLEGE

Spencer Hill Road
Corning, NY 14830
(607)962-9011 (002863)

Tuition (Full Time):

Resident: $350.00 Non Resident: $700.00

Solar Related Courses

Solar Heating and Cooling Design

Course Number: EY-101
Instructor: Bauer, Emory (607)962-9203
Department: Math, Physics
Student Level: College Freshman/Sophomore; Skilled Labor
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $30.00 Non Resident: $60.00
Prerequisites: No
Topics Covered Extensively: Solar Systems Design

GENESEE COMMUNITY COLLEGE

One College Road
Batavia, NY 14020
(716)343-0055 (006782)

Tuition (Full Time):

Resident: $385.00

Solar Related Courses

Solar Energy

Course Number: 104
Instructor: Cole, Ronald J. (716)343-0055
Department: Math, Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 37.0
Lab: 23.0
Offered: Weekend
Course Fee: Resident: $75.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating

MOHAWK VALLEY COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $250.00 Non Resident: $750.00

Solar Technical Training

Solar Energy Technology

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

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

rogram and Curriculum Related Courses

Solar Energy I, Energy and Energy Conservation

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

Solar Energy II, Installation

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

Solar III, Solar Energy Systems Design and Analysis

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

Solar IV, Alternate Energy Sources

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

Solar System Fabrication I

Course Number: 2992
Instructor: Dunning, Francis (315)792-5514
Department: Physics and Engineering Science
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore; Skilled Labor
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 10.0
Workshop: 40.0
Offered: Day; Evening
Course Fee: Resident: $51.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Sheet Metal Techniques; Solar Heating; Solar Home Construction; Solar Systems Design

Solar System Fabrication II

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

MONROE COMMUNITY COLLEGE

Rochester, NY 14623
(716)442-9950 (002872)

Solar Related Courses

Alternative Sources of Energy •

Course Number: CEU 036-181
Instructor: Dowd, Janis (716)275-9318
Department: Community Services
Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 1.0
Contact Hours: 8.0
Classroom: 8.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Home Construction; Solar Systems Design

ORANGE COUNTY COMMUNITY COLLEGE

115 South Street
Middletown, NY 10940
(914)343-1121 (002876)

Solar Related Courses

Architectural Design III

Instructor: Large, George (914)343-1121
Topics Covered Extensively: Passive Solar Systems

ROCKLAND COMMUNITY COLLEGE

Suffern, NY 10901
(914)356-4650 (002877)

Solar Related Courses

Solar Energy - Its Use in the 1970's •

Course Number: CF 189
Instructor: Cataldo, Ronald (914)356-1527
Department: Continuing Education, Community Services
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0

STATE UNIVERSITY OF NEW YORK AGRICULTURAL AND TECHNICAL COLLEGE AT DELHI

Delhi, NY 13753
(607)746-4111 (002857)

Curriculum with Solar Study

Construction, Architectural, Civil Technology

Degree: Associate
Applied Science
Department: Engineering Technologies
Contact: Duncan, George (607)746-4225
Program Training: Architecture-Solar Specialization; Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

General Chemistry, I
Course Number: 9512
Instructor: Onasch, Frederick (607)746-4377
Department: Physical Science
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 30.0
Lab: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Storage Systems; Heat and Energy Transfer; Materials; Photovoltaics and Solar Cells

General Chemistry, II
Course Number: 9513
Instructor: Onasch, Frederick (607)746-4377
Department: Physical Science
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 30.0
Lab: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Storage Systems; Heat and Energy Transfer; Materials; Photovoltaics and Solar Cells

General Physics, I
Course Number: 0521
Instructor: Vetter, Willard (607)746-4374
Department: Physical Science
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

General Physics, II
Course Number: 9522
Instructor: Vetter, Willard (607)746-4374
Department: Physical Science
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

Mechanical Equipment for Buildings
Course Number: 3741
Instructor: Hampel, John (607)746-4386
Department: Construction Technology
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques

Thermodynamics and Heating
Course Number: 3711
Instructor: Hampel, John (607)746-4386
Department: Construction Technology
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Water and Waste Water Technology
Course Number: 3554
Instructor: Singer, Darrell (607)746-4391
Department: Civil Technology
Program: Construction, Architectural, Civil Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 30.0
Lab: 60.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Energy Storage Systems

STATE UNIVERSITY OF NEW YORK AGRICULTURE AND TECHNICAL COLLEGE AT ALFRED

Alfred, NY 14802
(607)871-6111 (002854)

Tuition (Full Time):
Resident: $425.00 Non Resident: $650.00

Solar Related Courses

Residential Solar Systems
Course Number: MET 4513
Instructor: Conde, David E. (607)871-6230
Department: Mechanical Engineering Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $78.00 Non Resident: $108.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

TOMPKINS-CORTLAND COMMUNITY COLLEGE

Dryden, NY 13053
(607)844-8211 (008788)

Solar Related Courses

*Home Use of the Sun's Energy **
Course Number: CEET 708
Instructor: Klein, Gary (607)844-8211
Department: Lifelong Learning
Student Level: All Levels
Duration: No. of weeks: 8.0 Hrs. per week: 3.0
Contact Hours: 24.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Installation/ Maintenance

WESTCHESTER COMMUNITY COLLEGE

Valhalla, NY 10595
(914)347-6800 (002881)

Tuition (Full Time):
Resident: $375.00 Non Resident: $700.00

Solar Related Courses

Alternate Energy Resources and Laboratory
Course Number: 100 172/173
Instructor: Lee, Diana (914)347-6914
Department: Physical Sciences
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 45.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $123.00 Non Resident: $231.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Introduction to Solar Energy; Ocean Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

*Solar Heating and Energy Conservation **
Instructor: Wojan, C. (914)347-6930
Department: Mechanical Technology
Student Level: All Levels
Duration: No. of weeks: 6.0 Hrs. per week: 2.0
Contact Hours: 12.0
Classroom: 12.0
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Cooling; Solar Domestic Hot

Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Contact Hours: 14.0
Classroom: 14.0
Offered: Day
Course Fee: Resident: $250.00
Non Resident: $250.00
Prerequisites: No
Topics Covered Extensively: Components-Solar

Vocational / Technical Schools

STATE UNIVERSITY OF NEW YORK AGRICULTURE AND TECHNICAL COLLEGE AT FARMINGDALE

Melville Road
Farmingdale, NY 11735
(516)420-2000 (002858)

Solar Related Courses

Air Conditioning Equipment Lab
Course Number: 102/201
Instructor: Taub, Leon J.
(516)420-2088
Department: Air Conditioning Technology
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
C.E.U.'s: 2.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Workshop: 10.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $120.00
Non Resident: $120.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Other Educational Institutions and Organizations

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

345 East 47th Street
New York, NY 10017
(212)644-7743 (090510)

Solar Related Courses

Industrial Solar Heating and Cooling
Instructor: Ferry, Robert A.
(212)644-7743
Department: Professional Development
Student Level: Professional
C.E.U.'s: 1.4
Contact Hours: 14.0
Classroom: 14.0
Offered: Day
Course Fee: Resident: $275.00
Non Resident: $275.00
Prerequisites: No
Topics Covered Extensively: Process Heat

Utilization of Solar Energy
Instructor: Ferry, Robert A.
(212)644-7743
Department: Professional Development
Student Level: Professional
C.E.U.'s: 1.4

North Carolina

Colleges and Universities

APPALACHIAN STATE UNIVERSITY

Boone, NC 28608
(704)262-2000 (002906)

Tuition (Full Time):
Resident: $302.25 Non Resident: $1,162.25

Solar Related Courses

Solar Energy for Homes
Course Number: PHY 3535
Instructor: Mamola, Karl C. (704)262-3090
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 8.0
Hrs. per week: 2.0
Contact Hours: 16.0
Classroom: 16.0
Offered: Evening
Course Fee: Resident: $15.00
Non Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

DUKE UNIVERSITY

Durham, NC 27706
(919)684-8111 (002920)

Curriculum with Solar Study

Energy Conservation
Degree: Master
Civil, Electrical, Mechanical Engineering
Department: Engineering
Contact: Chaddock, Jack B. (919)684-2832

Program and Curriculum Related Courses

Materials Science and Energy Technology
Course Number: ME 113
Instructor: Shepard, Marion L. (919)684-2832
Department: Engineering
Program: Energy Conservation
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Appropriate Technology; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells

Photovoltaic Materials Seminar
Course Number: ME 265
Instructor: Cocks, Franklin, H. (919)684-2832
Department: Engineering
Program: Energy Conservation
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

Solar Electric Power Systems
Course Number: EE 155
Instructor: Wang, Paul P. (919)684-3123
Department: Engineering
Program: Energy Conservation
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Systems Design; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

Solar Energy Thermal Processes
Course Number: ME 254
Instructor: Chaddock, Jack B. (919)684-2832
Department: Engineering
Program: Energy Conservation
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

EAST CAROLINA UNIVERSITY

Greenville, NC 27834
(919)757-6212 (002923)

Tuition (Full Time):
Resident: $260.00 Non Resident: $1,120.00

Solar Related Courses

Solar Energy
Course Number: 5640, 5641
Instructor: Adler, Carl G. (919)757-6741
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 28.0
Lab: 28.0
Offered: Day
Course Fee: Resident: $62.00
Non Resident: $383.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

Greensboro, NC 27411
(919)379-7500 (002905)

Tuition (Full Time):
Resident: $798.00 Non Resident: $1,614.00

Solar Related Courses

Energy Conversion Technologies
Course Number: 563
Instructor: M. T. Raiford (919)379-7620
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $65.00
Non Resident: $269.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy

Introduction to Solar Energy
Course Number: 544
Instructor: Raiford, M. T. (919)379-7620
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $65.00
Non Resident: $269.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Photovoltaic Power Generation
Course Number: 660
Instructor: Stefanakos, Elias K. (919)379-7761
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $58.05
Non Resident: $377.85
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Introduction to Solar Energy; Photovoltaics and Solar Cells

Solid State Energy Conversion
Course Number: 608
Instructor: Stefanakos, E. K. (919)379-7761
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $58.05
Non Resident: $377.85
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

NORTH CAROLINA STATE UNIVERSITY

Raleigh, NC 27650
(919)737-2011 (002972)

Tuition (Full Time):
Resident: $279.00 Non Resident: $1,135.00

Solar Related Courses

Energy Conversion in Biological Systems

Course Number: BAE 303
Instructor: Suggs, Charles W. (919)737-3101
Department: Biological and Agricultural Eng.
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: Yes

Passive Design

Course Number: DN 492-0
Instructor: Barnes, Don (919)737-2203
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 32.0
Seminar: 16.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems

UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE

Asheville, NC 28804
(704)258-0200 (002907)

Tuition (Full Time):

Resident: $245.00 Non Resident: $1,125.00

Solar Related Courses

The Design of Solar Heated Homes

Course Number: PHY 272
Instructor: Cole, Robert S. (704)258-0200 EXT.202
Department: Physics
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Offered: Evening
Course Fee: Resident: $36.00
Non Resident: $182.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

121 ABERNETHY HALL 002-A
CHAPEL HILL, NC 27514
(919)933-1365 (002974)

Tuition (Full Time):

Resident: $80.00 Non Resident: $80.00

Solar Related Courses

nergy and Man

ourse Number: UNI 295
Instructor: Huisingh, Donald (919)737-2479
Department: University Studies
Student Level: College Freshman/ Sophomore; Professional; Layperson
Academic Credits: 3.0 (Semester)
Course Fee: Resident: $80.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Introduction to Solar Energy; Materials; Solar Energy Policy Development

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

UNCC Station
Charlotte, NC 28223
(704)597-2000 (002975)

Tuition (Full Time):

Resident: $259.00 Non Resident: $1,125.00

Solar Related Courses

Architectural Elective Studies

Course Number: ARC 350
Instructor: Hight, Charles C. (704)597-2357
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Architectural Studio, 301

Course Number: ARC 301
Instructor: Hight, Charles C. (704)597-2357
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Architectural Studio, 302

Course Number: ARC 302
Instructor: Hight, Charles C. (704)597-2357
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Design

Architectural Studio, 401

Course Number: ARC 401
Instructor: Hight, Charles C. (704)597-2357
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Architectural Studio, 402

Course Number: ARC 402
Instructor: Hight, Charles C. (704)597-2357
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 5.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 9.0
Contact Hours: 126.0
Offered: Day
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Energy Conversion I

Course Number: ESM 412
Instructor: Kim, Rhyn (704)597-2303
Department: Engineering Science, Mechanics and Materials
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Energy Conversion II

Course Number: ESM 413
Instructor: Kim, R. H. (704)597-2303
Department: Engineering Science, Mechanics and Materials
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $54.00
Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Special Topics in Solar Engineering Technology

Course Number: ET 490
Instructor: Shelnutt, J. William (704)597-2305
Department: Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Offered: Day; Evening
Course Fee: Resident: $54.00
Non Resident: $270.00

Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating; Solar Systems Testing/Evaluation

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

Spring Garden Street
Greensboro, NC 27412
(919)379-5330 (002976)

Tuition (Full Time):
Resident: $364.00 Non Resident: $1,159.00

Solar Related Courses

Energy Options and the Environment
Course Number: PHYSICS 334
Instructor: Meisner, Gerald W. (919)379-5330
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $79.00
Non Resident: $365.00
Prerequisites: No

WESTERN CAROLINA UNIVERSITY

Cullowhee, NC 28723
(704)293-7211 (002981)

Curriculum with Solar Study

Faculty Development in Energy for Industrial Education *
Degree: Master, Bachelor
Department: Industrial Education; Technology
Contact: Cook, J.
Dalley, R. (704)227-7368
Program Training: Solar Energy Education

Program and Curriculum Related Courses

Faculty Development in Energy for Industrial Education *
Instructor: Cook, J. (704)227-7368
Dalley, R.
Department: Industrial Education and Technology
Program: Faculty Development in Energy for Industrial Education *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 1.0
Hrs. per week: 40.0
Contact Hours: 40.0
Classroom: 30.0
Lab: 10.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water

Junior and Community Colleges

CARTERET TECHNICAL INSTITUTE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

CENTRAL PIEDMONT COMMUNITY COLLEGE

Charlotte, NC 28204
(704)373-6566 (002915)

Solar Related Courses

Applied Solar Energy *
Course Number: ARC 4310
Instructor: Farkas, Al (704)373-6633
Department: Architecture Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design

COASTAL CAROLINA COMMUNITY COLLEGE

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

Tuition (Full Time):
Resident: $44.00 Non Resident: $203.00

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration
Degree: Certificate
Air Conditioning, Heating and Refrigeration
Department: Trades
Contact: Rawls, Preston (919)455-1221
Program Training: Solar System Installation-Residential; Heating, Ventilation, Air Conditioning-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Fundamentals of Solar Heating
Course Number: AHR 1110
Instructor: Hewitt, Robert L. (919)455-1221 EXT.264
Department: Air Conditioning, Heating and Refrig.
Program: Air Conditioning, Heating and Refrigeration
Student Level: Skilled Labor
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 33.0
Lab: 33.0
Offered: Day
Course Fee: Resident: $13.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

GASTON COLLEGE

Dallas, NC 28034
(704)922-3136 (002973)

Solar Related Courses

Practical Solar Energy *
Instructor: McArver, Fred (704)922-3136
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0

ISOTHERMAL COMMUNITY COLLEGE

P O Box 804
Spindale, NC 28160
(704)631-3636 (002934)

Tuition (Full Time):
Resident: $49.00 Non Resident: $208.00

Solar Related Courses

Uses of Solar Energy
Course Number: PHS 0161
Instructor: Karriker, John M. (704)286-3636 EXT.212
Department: Arts and Sciences
Student Level: College Freshman/Sophomore; Layperson
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 4.0
Hrs. per week: 3.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening

Course Fee: Resident: $3.00
Non Resident: $16.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

STANLY TECHNICAL INSTITUTE

Albemarle, NC 28001
(704)982-0121 (011194)

Solar Related Courses

Solar Energy Systems *

Course Number: W 970
Instructor: Griffin, James E.
(704)463-5820
Student Level: All Levels

TRI-COUNTY COMMUNITY COLLEGE

P O Box 40
Murphy, NC 28906
(704)837-6810 (009430)

Solar Related Courses

Solar Energy *

Department: Continuing Education
Student Level: All Levels
Contact Hours: 18.0

VANCE-GRANVILLE COMMUNITY COLLEGE

Henderson, NC 27536
(919)492-2061 (009903)

Solar Related Courses

Carpentry *

Course Number: 3001 W974
Instructor: Norwood, Mike
(919)492-3371
Department: Occupational Education
Student Level: All Levels
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Plumbing Techniques

Department: Technical Division
Contact: Stiles, W. O.
Averette, R.
(919)343-0481

Program and Curriculum Related Courses

Introduction to Energy Resources *

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

Introduction to Solar Energy Systems, Electrical *

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

Introduction to Solar Energy Systems, Therma *

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

Vocational / Technical Schools

CAPE FEAR TECHNICAL INSTITUTE

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

Curriculum with Solar Study

General Occupational Technologies *

Degree: Associate
General Occupational Technologies

CLEVELAND COUNTY TECHNICAL INSTITUTE

137 South Post Road
Shelby, NC 28150
(704)482-8351 (008082)

Tuition (Full Time):

Resident: $41.00

Solar Related Courses

Solar Energy

Course Number: ENV 100
Instructor: Smith, Iverson R.
(704)482-8351 EXT.235

Department: Management, Science and Math
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 22.0
Lab: 33.0
Offered: Day; Evening
Course Fee: Resident: $12.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

GUILFORD TECHNICAL INSTITUTE

P O Box 309
Jamestown, NC 27282
(919)292-1101 (004838)

Solar Related Courses

Solar Hot Water Systems *

Course Number: 3EBF
Instructor: Eller, Wayne C.
(919)292-1101 EXT.242
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 25.0
Lab: 5.0
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Plumbing Techniques; Solar Domestic Hot Water; Solar Systems Design

MAYLAND TECHNICAL INSTITUTE

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

Tuition (Full Time):

Resident: $39.00 Non Resident: $198.00

Curriculum with Solar Study

Light Construction

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

Program and Curriculum Related Courses

Solar Applications and Performance

Course Number: EGY 1101
Instructor: Hensley, Robert M.
(704)765-7351 EXT.56
Department: Light Construction
Program: Light Construction
Student Level: Skilled Labor
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0

Offered: Day
Course Fee: Resident: $10.00
Non Resident: $52.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Related Courses

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

PAMLICO TECHNICAL INSTITUTE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

RANDOLPH TECHNICAL INSTITUTE

Industrial Park Avenue
P O Box 1009
Asheboro, NC 27203
(919)629-1471 (005447)

Solar Related Courses

Introduction to Solar Energy
Course Number: ECO 2000
Instructor: Childers, Don
(919)629-1421 EXT.30
Department: Continuing Education
Student Level: Layperson
C.E.U.'s: 1.5
Duration: No. of weeks: 5.0
Hrs. per week: 3.0
Contact Hours: 15.0
Classroom: 15.0
Offered: Evening
Course Fee: Resident: $5.00
Non Resident: $5.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Solar Heating

SAMPSON TECHNICAL INSTITUTE

P O Drawer 318
Clinton, NC 28328
(919)592-8081 (007892)

Solar Related Courses

Introduction to Solar Energy
Course Number: AHR 1115
Instructor: Royal, William
(919)592-8081 EXT.223
Peacock, Sherwood
Department: Vocational Education, Air Conditioning
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Evening
Topics Covered Extensively: Introduction to Solar Energy

Solar Application
Course Number: AHR 1117
Instructor: Royal, William
(919)592-8081 EXT.223
Peacock, Sherwood
Department: Vocational Education, Air Conditioning
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 33.0
Lab: 22.0
Offered: Day; Evening

SOUTHWESTERN TECHNICAL INSTITUTE

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

Tuition (Full Time):

Resident: $41.00 Non Resident: $200.00

Solar Technical Training

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

Program and Curriculum Related Courses

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

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

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

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

Fundamentals of Solar Energy
Course Number: EGY 1140
Instructor: Liming, Glenn
(704)586-4091 EXT.213
Department: Industrial and Vocational
Program: Solar Mechanics
Student Level: Layperson
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 2.0
Contact Hours: 22.0
Classroom: 22.0
Offered: Evening

Course Fee: Resident: $7.00
Non Resident: $33.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

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

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

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

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

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

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

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

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

TECHNICAL INSTITUTE OF ALAMANCE

P O Box 623
Haw River, NC 27258
(919)578-2002 (005463)

Solar Related Courses

Current Trends •
Course Number: AHR 233
Instructor: Payne, David M.
(919)578-2002
Department: Air Conditioning and Refrigerating
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 22.0
Lab: 22.0
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

North Dakota

Colleges and Universities

MAYVILLE STATE COLLEGE

Mayville, ND 58257
(701)786-2301 (002993)

Solar Related Courses

Energy and the Environment *

Course Number: 322
Instructor: Carlson, Kenneth T. (701)786-2301
Department: Science
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 12.0; Hrs. per week: 4.0
Contact Hours: 48.0

NORTH DAKOTA STATE UNIVERSITY

Fargo, ND 58102
(701)237-8011 (009266)

Tuition (Full Time):

Resident: $174.00 Non Resident: $430.00

Solar Related Courses

Design Projects in Agricultural Engineering

Course Number: 484,485,486
Instructor: Pratt, George
Department: Agricultural Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 20.0
Workshop: 4.0
Offered: Day
Course Fee: Resident: $58.00; Non Resident: $143.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Photoconversion; Plumbing Techniques; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Wind Energy Conversion Systems

Engineering Economy

Course Number: IE 460
Instructor: IE Faculty (701)237-7287
Department: Industrial Engineering and Management
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $58.00; Non Resident: $142.00
Prerequisites: Yes

Environmental Control System II

Course Number: ARCH 355
Instructor: Hatlen, Vincen (701)237-8509
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Hybrid Systems; Introduction to Solar Energy; Passive Solar Systems

Environmental Engineering

Course Number: MEAM 461
Instructor: Sakshaug, Thomas (701)237-7201
Department: Mechanical Engineering, Applied Mechanics
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $58.00; Non Resident: $143.30
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer

Individual Study

Course Number: MEAM 497
Instructor: Sakshaug, Thomas (701)237-7201
Department: MEAM
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Independent Study: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $29.00; Non Resident: $71.67
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Materials; Solar Heating; Solar Systems Testing/Evaluation

Mechanical Engineering Laboratory

Course Number: MEAM 408
Instructor: Sakshaug, Thomas (701)237-7201
Department: MEAM
Student Level: College Junior/Senior
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Lab: 40.0
Offered: Day
Course Fee: Resident: $29.00; Non Resident: $71.67
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Senior Design Projects

Course Number: 310-11,412-14
Instructor: Pfister, Philip C. (701)237-8840
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 30.0; Hrs. per week: 3.0
Contact Hours: 90.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Wind Energy Conversion Systems

UNIVERSITY OF NORTH DAKOTA

Grand Forks, ND 58202
(701)777-2011 (003005)

Curriculum with Solar Study

Solar Research Program

Degree: Bachelor, Master Electrical, Mechanical & Civil Engineering, & Computer Science
Department: Engineering Experiment Station
Contact: Somerville, Mason (701)777-3132
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Program: Solar Research Program

Mechanical Engineering Special Topics

Course Number: ME 490
Instructor: Somerville, Mason H. (701)777-3132
Department: Engineering and Mines, Mechanical Engineering
Program: Solar Research Program
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Job: 15.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Heating; Solar Systems Design; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

Solar Related Courses

Climatology

Course Number: 334
Instructor: Dando, W. A.
Department: Geography and Remote Sensing
Student Level: College Junior/Senior; Managerial; Professional
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Photoconversion; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems

Meteorology

Course Number: 333
Instructor: Dando, W. A. (701)777-4246
Department: Geography and Remote Sensing
Student Level: College Junior/Senior; Managerial; Professional
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 15.0
Offered: Day; Evening
Prerequisites: Yes

Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Photoconversion; Solar Heating; Solar Home Construction

Vocational / Technical Schools

NORTH DAKOTA STATE SCHOOL OF SCIENCE

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

Solar Technical Training

Environmental Systems Design *

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

Program and Curriculum Related Courses

Systems and Equipment *

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

Ohio

Colleges and Universities

ANTIOCH COLLEGE

Yellow Springs, OH 45387
(513)767-1424 (008795)

Solar Related Courses

Independent Study in Solar Energy *

Course Number: P 196
Instructor: Taylor, Charles
(513)767-7331
Department: Science Institute - Physics, Environmental Studies
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 14.0
Contact Hours: 140.0
Classroom: 20.0
Independent Study: 80.0
Lab: 40.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

DEFIANCE COLLEGE

701 North Clinton
Defiance, OH 43512
(419)784-4010 (003041)

Tuition (Full Time):

Resident: $1,635.00 Non Resident: $1,635.00

Solar Related Courses

Alternate Energy Resources

Course Number: 17-50
Instructor: Bowen, Frank R.
(419)784-4010 EXT.114
Department: Business Administration
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 4.0
Hrs. per week: 4.0
Contact Hours: 16.0
Classroom: 4.0
Independent Study: 3.0
Field Trips: 9.0
Offered: Day
Course Fee: Resident: $285.00
Non Resident: $285.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Ocean Systems; Passive Solar Systems; Solar Energy Policy Development; Solar Heating; Solar Home Construction; Solar Systems Design; Thermochemical Conversion; Wind Energy Conversion Systems

Energy Alternatives *

Course Number: 11-50
Instructor: Miller, Harry G.
(419)784-4010
Department: Physics and Mathematics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 4.0
Hrs. per week: 15.0
Contact Hours: 60.0
Classroom: 50.0
Field Trips: 10.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

DENISON UNIVERSITY

Granville, OH 43023
(614)587-0810 (003042)

Solar Related Courses

Citizen's Solar Energy Workshop
Course Fee: Resident: $170.00

Independent Study
Course Number: 361-2
Instructor: Alrutz, Robert
(614)587-2079
Larson, Lee
Department: Biology, Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Independent Study: 150.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

KENT STATE UNIVERSITY MAIN CAMPUS

Kent, OH 44242
(216)672-2121 (003051)

Curriculum with Solar Study

Architects and Energy *
Department: Architecture
Contact: Kremers
(216)672-2789
Program Training: Architecture-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Architects and Energy 62598 *
Course Number: 62598
Instructor: Kremers
(216)672-2789
Department: Architecture
Program: Architects and Energy *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

Solar Energy Today *
Instructor: Kremers
(216)672-2789
Department: Architecture
Program: Architects and Energy *
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Solar Related Courses

Energy Conversion Utilization *
Course Number: 20001
Instructor: Loughridge, R.
(216)672-2892
Lees, J.
Phillips, J.
Department: Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Topics Covered Extensively: Heat and Energy Transfer; Process Heat; Solar Heating; Solar Cooling

Power Technology *
Course Number: 31032
Instructor: Lees, James
(216)672-2892
Department: Technology
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 10.0
Hrs. per week: 10.0
Contact Hours: 100.0
Classroom: 50.0
Lab: 50.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology

MIAMI UNIVERSITY

High Street
Oxford, OH 45056
(513)529-2161 (007104)

Tuition (Full Time):

Resident: $625.00 Non Resident: $700.00

Solar Related Courses

Energy Conscious Design
Course Number: 407/507M
Instructor: Moore, Fuller
(513)529-2828
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 18.0
Lab: 12.0
Offered: Evening
Course Fee: Resident: $120.00
Non Resident: $260.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Home Construction; Solar Systems Design

OHIO NORTHERN UNIVERSITY

Ada, OH 45810
(419)634-9921 (003089)

Tuition (Full Time):

Resident: $1,057.00 Non Resident: $1,057.00

Solar Related Courses

Solar Energy Engineering
Course Number: 204590.03
Instructor: Farrington, Frank
(419)634-9921
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $249.00
Non Resident: $249.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

OHIO STATE UNIVERSITY

2073 Neil Avenue
Columbus, OH 43210
(614)422-6446 (006883)

Tuition (Full Time):

Resident: $326.00 Non Resident: $650.00

Solar Related Courses

Solar Energy Thermal Systems
Course Number: ME 614
Instructor: Sepsy
(614)422-6898
Department: Mechanical Engineering
Student Level: College Graduate; College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $81.00
Non Resident: $180.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating

OHIO STATE UNIVERSITY MANSFIELD BRANCH

1680 University Drive
Mansfield, OH 44906
(419)747-6561 (003093)

Tuition (Full Time):

Resident: $20.00 Non Resident: $20.00

Solar Related Courses

Solar Energy
Instructor: Clark, D. L.
(419)755-4011
Department: Continuing Education
Student Level: All Levels; Layperson
Duration: No. of weeks: 4.0
Hrs. per week: 2.5
Contact Hours: 10.0
Classroom: 10.0
Offered: Evening
Course Fee: Resident: $20.00
Non Resident: $20.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Heating

Wind Energy
Instructor: Clark, D. L.
(419)755-4011

Department: Continuing Education
Student Level: All Levels; Layperson
Duration: No. of weeks: 4.0
Hrs. per week: 2.5
Contact Hours: 10.0
Classroom: 10.0
fered: Evening
ırse Fee: Resident: $15.00
Non Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Wind Energy Conversion Systems

THE UNION FOR EXPERIMENTING COLLEGE AND UNIVERSITIES

2331 Victory Parkway
Cincinnati, OH 45206
(513)861-3334 (010923)

Solar Curriculum

University Without Walls, Union Graduate School - Independent Study in Solar
Degree: Doctorate, Bachelor
Contact: Casbeer, Marcus
(513)861-4477
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Curriculum with Solar Study

University Without Walls, Union Graduate School - Independent Study in Solar
Degree: Doctorate, Bachelor
Contact: Casbeer, Marcus
(513)861-4477
Program Training: Architecture-Solar Specialization; Solar Energy Education; Solar Energy Administration/Policy; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

UNIVERSITY OF AKRON MAIN CAMPUS

Akron, OH 44325
(216)375-7111 (003123)

Tuition (Full Time):

Resident: $420.00

Solar Related Courses

Energy Conversion
Course Number: 4600-415
Instructor: Gross, Richard J.
(216)375-7736
Department: Mechanical Engineering, Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 45.0
Lab: 20.0
Offered: Day; Evening
Course Fee: Resident: $99.00
Non Resident: $189.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Physics, Energy and Man
Course Number: 3650:141
Instructor: Wilson, C. W.
(216)375-7079
Department: Physics, Arts and Sciences
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

UNIVERSITY OF CINCINNATI

Cincinnati, OH 45221
(513)475-8000 (003125)

Solar Related Courses

ET Lab - Alternative Energy
Course Number: 23-300-413
Instructor: Smith, D. L.
(513)475-6426
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Lab: 40.0
Offered: Day

ET Lab and Seminar - Energy
Course Number: 23-300-411
Instructor: Smith, D. L.
(513)475-6426
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Seminar: 40.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology

ET Studio - Energy Conscious Design
Course Number: 23-300-511
Instructor: Smith, D. L.
(513)475-6426
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 9.0
Contact Hours: 90.0
Workshop: 90.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems

Solar Energy Systems Analysis
Course Number: 20-263-698
Instructor: Temming, Stephen J.
(513)475-3539
Davies, Gary R.
Department: Mechanical and Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $123.00
Non Resident: $243.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy Thermal Processes
Course Number: 20-263-697
Instructor: Temming, Stephen J.
(513)475-3539
Davies, Gary R.
Department: Mechanical and Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $123.00
Non Resident: $243.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Systems Design

Solar Heating and Cooling
Course Number: 32-195-467
Instructor: Garrett, Ronald W.
(513)475-6541
Department: Applied Science, Mechanical Engineering Technology
Student Level: College Junior/Senior; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 44.0
Offered: Day; Evening
Course Fee: Resident: $100.00
Non Resident: $164.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF DAYTON

300 College Park
Dayton, OH 45469
(513)229-0123 (003127)

Curriculum with Solar Study

Energy Conversion
Degree: Doctorate, Bachelor, Master Mechanical Engineering
Department: Mechanical Engineering
Contact: Smith, Howard E.
(513)229-2835
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Direct Energy Conversion
Course Number: MEE 514
Instructor: Chuang, Henry N.
(513)229-2835
Department: Mechanical Engineering
Program: Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.5
Seminar: 3.0
Lab: 1.5
Offered: Evening

Course Fee: Resident: $240.00
Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Materials; Photoconversion; Photovoltaics and Solar Cells

Energy Conversion Systems
Course Number: MEE 402
Instructor: Chuang, Henry N. (513)229-2835
Department: Mechanical Engineering
Program: Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.5
Seminar: 3.0
Lab: 1.5
Offered: Day
Course Fee: Resident: $225.00
Non Resident: $225.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

Solar Heating Analysis
Course Number: MEE 567
Instructor: Chuang, Henry N. (513)229-2835
Department: Mechanical Engineering
Program: Energy Conversion
Student Level: College Junior/Senior
Academic Credits: 3.0 (Trimester)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 40.5
Seminar: 3.0
Lab: 1.5
Offered: Evening
Course Fee: Resident: $240.00
Non Resident: $240.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

UNIVERSITY OF TOLEDO

2801 West Bancroft Avenue
Toledo, OH 43606
(419)537-2072 (003131)

Solar Related Courses

Solar Energy Utilization *
Course Number: 436:4/563
Instructor: Eltimsahy, Adel H. (419)537-2638
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 30.0
Independent Study: 10.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Cooling; Solar Heating; Solar Systems Design

Solar Heating and Cooling
Course Number: 484:641
Instructor: Keith, Theo G. (419)537-2275
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Evening
Course Fee: Resident: $105.00
Non Resident: $226.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

WALSH COLLEGE

Canton, OH 44720
(216)499-7090 (003135)

Solar Related Courses

Solar Heating *
Course Number: CE 0109
Instructor: Over, Calvin S.
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 5.0
Hrs. per week: 1.0
Contact Hours: 5.0
Classroom: 5.0
Topics Covered Extensively: Introduction to Solar Energy

WITTENBERG UNIVERSITY

Springfield, OH 45501
(513)327-6231 (003143)

Tuition (Full Time):

Resident: $1,224.00

Solar Related Courses

Energy and the Future
Course Number: CHEM-100
Instructor: Sarroris, Nelson (513)327-7432
Department: Chemistry
Student Level: All Levels
Academic Credits: 1.0 (Trimester)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 40.0
Seminar: 5.0
Workshop: 5.0
Offered: Day
Course Fee: Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

WRIGHT STATE UNIVERSITY

Colonel Glenn Highway
Dayton, OH 45435
(513)873-2208 (009168)

Tuition (Full Time):

Resident: $320.00 Non Resident: $650.00

Solar Related Courses

Energy Conversion
Course Number: ENG 423
Instructor: Friar, Billy W. (513)873-2403
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Evening
Course Fee: Resident: $124.00
Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Energy Production: Alternative Solutions
Course Number: ENV 214
Instructor: Wood, Timothy S. (513)873-2542
Department: Environmental Studies
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $93.00
Non Resident: $180.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Wind Energy Conversion Systems

Heat Transfer
Course Number: ENG 318
Instructor: Viets, Hermann (513)873-2501
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 30.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $124.00
Non Resident: $240.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Thermodynamics
Course Number: ENG 315
Instructor: Viets, Hermann (513)873-2501
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day; Evening
Course Fee: Resident: $124.00
Non Resident: $240.00
Prerequisites: Yes

XAVIER UNIVERSITY

Cincinnati, OH 45207
(513)745-3000 (003144)

Solar Related Courses

Experiments in Physics *
Course Number: PH 330
Instructor: Toepker, Terrence (513)745-3626
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 5.0
Hrs. per week: 7.5
Contact Hours: 38.0
Classroom: 12.0
Lab: 26.0

YOUNGSTOWN STATE UNIVERSITY

Youngstown, OH 44555
(216)746-1851 (003145)

Tuition (Full Time):
sident: $265.00 Non Resident: $485.00

Curriculum with Solar Study

Specialization in Solar Energy Engineering
Degree: Bachelor, Master
Engineering
Department: Electrical Engineering
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Topics in Solar Energy Engineering
Course Number: EE 972
Instructor: Alexander, Charles (216)742-3013
Department: Electrical Engineering
Program: Specialization in Solar Energy Engineering
Student Level: College Graduate
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Evening
Course Fee: Resident: $101.00
Non Resident: $181.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Distributed Solar Power Systems; Hybrid Systems; Satellite Solar Power Systems; Solar Heating; Solar Systems Design

Solar Energy Engineering
Course Number: EE 971
Instructor: Alexander, Charles (216)742-3013
Department: Electrical Engineering
Program: Specialization in Solar Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Evening
Course Fee: Resident: $101.00
Non Resident: $181.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating

Solar Energy Engineering 831
Course Number: EE 831
Instructor: Alexander, Charles (216)742-3013
Department: Electrical Engineering
Program: Specialization in Solar Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
ntact Hours: 40.0
Classroom: 40.0
fered: Day
Course Fee: Resident: $101.00
Non Resident: $181.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Solar Energy Systems, Synthesis and Optimization
Course Number: EE 832
Instructor: Alexander, Charles (216)742-3013
Department: Electrical Engineering
Program: Specialization in Solar Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $101.00
Non Resident: $181.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Distributed Solar Power Systems; Hybrid Systems; Process Heat; Satellite Solar Power Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Introduction to Modern Technology
Course Number: EE 555
Instructor: Alexander, Charles (216)742-3013
Department: Electrical Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $101.00
Non Resident: $181.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Introduction to Solar Energy

Junior and Community Colleges

EDISON STATE COMMUNITY COLLEGE

1973 Edison Drive
Piqua, OH 45356
(513)778-8600 (012270)

Tuition (Full Time):
Resident: $236.00 Non Resident: $438.00

Solar Related Courses

Energy Conservation and Alternatives
Course Number: ENR 120
Instructor: Zechman, Tom (513)778-8600 EXT.258
Department: Civil Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 1.0
Duration: No. of weeks: 11.0
Hrs. per week: 2.7
Contact Hours: 30.0
Classroom: 21.0
Workshop: 9.0
Offered: Evening
Course Fee: Resident: $54.00
Non Resident: $108.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Heating

LAKELAND COMMUNITY COLLEGE

Interstate 90 & Route 306
Mentor, OH 44060
(216)951-1000 (006804)

Solar Related Courses

Energy Conservation
Instructor: Susel, Frank M. (216)951-1000
Department: Lifelong Learning
Student Level: College Graduate
C.E.U.'s: 2.0
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Topics Covered Extensively: Energy Conservation

Solar Heating
Course Number: LL50558
Instructor: Susel, Frank (216)951-1000
Department: Lifelong Learning
Student Level: College Junior/Senior; Professional
C.E.U.'s: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $30.00
Prerequisites: *No
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Solar Heating; Solar Systems Design; Solar Systems Testing/ Evaluation

SINCLAIR COMMUNITY COLLEGE

Dayton, OH 45402
(513)226-2500 (003119)

Solar Related Courses

*Introduction to Solar Heating and Cooling **
Course Number: EGR 126
Instructor: Nataraj, Nataraj S. (513)226-2835
Department: Engineering and Industrial Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 27.0
Lab: 6.0

Vocational / Technical Schools

CENTRAL OHIO TECHNICAL COLLEGE

University Drive
Newark, OH 43055
(614)366-1351 (011046)

Solar Related Courses

Energy Conservation Institute
Course Number: 3810
Instructor: Pond, Robert J. (614)366-1351
Student Level: College Freshman/Sophomore; Managerial; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Weekend
Course Fee: Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Distributed Solar Power Systems

Environmental Control
Course Number: 3443
Instructor: Pond, Robert J. (614)366-1351
Department: Engineering Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Course Fee: Resident: $69.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Cooling; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

COLUMBUS TECHNICAL INSTITUTE

550 East Spring Street
P O Box 1609
Columbus, OH 43216
(614)221-6743 (006887)

Solar Related Courses

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

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

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

Solar Energy System Seminar for Government, Financial, and Insurance Personnel
Instructor: Jordan, Russell W. (614)227-2426
Student Level: Managerial
Contact Hours: 4.0
Seminar: 4.0
Offered: Day
Course Fee: Resident: $25.00
Prerequisites: No

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

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

MUSKINGUM AREA TECHNICAL COLLEGE

Zanesville, OH 43701
(614)454-2501 (008133)

Solar Related Courses

*Solar Home Heating **
Course Number: ACE 186
Instructor: Goehring, C. (216)454-2501
Department: Lifelong Learning
Student Level: All Levels
Duration: No. of weeks: 5.0; Hrs. per week: 2.0
Contact Hours: 10.0
Classroom: 10.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance

Other Educational Institutions and Organizations

AIR FORCE INSTITUTE OF TECHNOLOGY

Dayton, OH 45433
(513)255-2079 (003009)

Solar Related Courses

Contemporary Energy Applications
Course Number: 562
Instructor: Stan, Robert (513)255-4552
Department: Engineering Technology
Student Level: College Graduate; Professional
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 1.0; Hrs. per week: 35.0
Contact Hours: 35.0
Classroom: 35.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

*Radiation Heat Transfer **
Course Number: ME 6.73
Instructor: Hitchcock, James E. (513)255-3069
Department: Aero and Astro
Student Level: College Graduate
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 4.0
Contact Hours: 40.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfe

NORTH AMERICAN HEATING AND AIR CONDITIONING WHOLESALERS

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

Solar Related Courses

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

Oklahoma

Colleges and Universities

OKLAHOMA STATE UNIVERSITY

Main Campus
Stillwater, OK 74074
(405)624-5000 (003170)

Solar Related Courses

Alternative Energy Systems
Instructor: Proppe, Jody (405)624-6266
Department: Architecture Extension
Student Level: Managerial; Layperson
Contact Hours: 7.0
Classroom: 7.0
Offered: Day; Weekend
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Design and Analysis of Subterranean Structures
Instructor: Proppe, Jody (405)624-6266
Department: Architecture Extension
Student Level: Managerial; Professional
C.E.U.'s: 1.0
Contact Hours: 14.0
Classroom: 12.0
Seminar: 1.0
Workshop: 1.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Passive Solar Systems

Design and Construction of Energy Saving Homes *
Instructor: Bose, Jim (405)624-5638; Irby, Dean
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 16.0
Contact Hours: 16.0
Classroom: 16.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Solar Cooling; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Design of Solar Systems *
Instructor: Dubensky, Robert
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Classroom: 8.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Direct Energy Conversion I
Course Number: 4133
Instructor: R. Ramakumar (405)624-5170
Department: Electrical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $52.00; Non Resident: $152.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Marketing/Economic Analysis; Wind Energy Conversion Systems

Direct Energy Conversion II
Course Number: 5153
Instructor: R. Ramakumar (405)624-5170
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $52.00; Non Resident: $152.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Marketing/Economic Analysis; Wind Energy Conversion Systems

Earth Sheltered Housing Seminar
Instructor: Proppe, Jody (405)624-6266
Department: Architecture Extension
Student Level: Layperson
Contact Hours: 7.0
Classroom: 7.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems

Electrical Engineering Aspects - Wind Energy Systems *
Instructor: Hughes, W. L. (405)624-5168; Lingelbach D.
Department: Continuing Education
Duration: No. of weeks: 1.0; Hrs. per week: 7.0
Contact Hours: 7.0
Topics Covered Extensively: Wind Energy Conversion Systems; Centralized Solar Power Systems; Distributed Solar Power Systems; Heat and Energy Transfer

Energy Conservation and Management
Course Number: INDEN 4923
Instructor: Turner, W. C. (405)624-6055
Department: Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 40.0
Seminar: 6.0
Independent Study: 4.0
Job: 4.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Process Heat

Environmental Power Systems
Course Number: 5763
Instructor: Bryant, John (405)624-6043
Department: Architecture
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Hot Air Panel Construction *
Instructor: Bose, Jim (405)624-5638
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Classroom: 8.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Introduction to Solar Heating *
Instructor: Dubensky, Robert
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Lighting, Energy Design
Instructor: Proppe, Jody (405)624-6266
Department: Architecture Extension
Student Level: Managerial; Professional
Contact Hours: 14.0
Classroom: 7.0
Lab: 7.0
Offered: Day; Weekend
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Passive Solar Systems

Solar Controls and Storage *
Instructor: Dubensky, Robert
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Solar Heating Applications *
Instructor: Bose, Jim (405)624-5638
Department: Technology Extension
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 8.0
Contact Hours: 8.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

UNIVERSITY OF OKLAHOMA

660 Parrington Oval
Norman, OK 73019
(405)325-0311 (003184)

Solar Related Courses

Energy Conservation Seminar *
Course Number: ARCH 6023
Instructor: Calvert, Floyd O. (405)325-2444
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Prerequisites: Yes

Topics Covered Extensively: Energy Conservation; Passive Solar Systems

Solar Energy Thermal Processes
Course Number: AME 6730
Instructor: Turkington, D. B. (405)325-5011
Department: Aerospace, Mechs., and Nuclear Eng.
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $87.00 Non Resident: $213.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating

Special Topics in Physical Chemistry
Course Number: CH 6670
Instructor: Murphy, George (405)325-3691
Department: Chemistry
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 2.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $41.50 Non Resident: $121.50
Prerequisites: Yes
Topics Covered Extensively: Bioconversion; Photoconversion

UNIVERSITY OF TULSA

Tulsa, OK 74104
(918)939-6351 (003185)

Solar Related Courses

*Solar Energy Seminar **
Course Number: ES 3093
Instructor: Ketcham, Bruce V. (918)939-6351
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design; Solar Heating

*Solar Heating and Cooling Fundamentals **
Course Number: ES 3093
Instructor: Ketcham, Bruce V. (918)939-6351
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Systems Design; Solar Heating

Oregon

Colleges and Universities

EASTERN OREGON STATE COLLEGE

La Grande, OR 97850
(503)963-2171 (003193)

Tuition (Full Time):

Resident: $244.00 Non Resident: $244.00

Solar Related Courses

Research: Solar Energy
Course Number: PH 401
Instructor: Stephus, Paul (503)963-2171 EXT.310
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0 Hrs. per week: 3.0
Contact Hours: 35.0
Independent Study: 35.0
Offered: Day
Course Fee: Resident: $66.00 Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Systems Design; Solar Systems Testing/ Evaluation

OREGON STATE UNIVERSITY

Corvallis, OR 97331
(503)754-1133 (003210)

Tuition (Full Time):

Resident: $388.00 Non Resident: $437.00

Curriculum with Solar Study

Solar Energy Meteorological Research and Training Site
Degree: Doctorate, Bachelor, Master Atmospheric Sciences
Department: Atmospheric Sciences
Contact: Rao, C. R. N. Howcon (503)754-4557
Program Training: Solar Energy Education; Solar Technology-Instrumentation, Controls, Design, Maintenance; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Atmospheric Radiative Processes, 560
Course Number: 560
Instructor: Rao, C. R. Nagaraja (503)754-4557
Program: Solar Energy Meteorological Research and Training Site
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $150.00 Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

Atmospheric Radiative Processes, 561
Course Number: 561
Instructor: Rao, C. R. Nagaraja (503)754-4557
Program: Solar Energy Meteorological Research and Training Site
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $150.00 Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

Solar Radiation and Meteorological Measurements, 420
Course Number: 420
Instructor: Rao, C. R. Nagaraja (503)754-4557
Department: Atmospheric Sciences
Program: Solar Energy Meteorological Research and Training Site
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 7.0
Contact Hours: 70.0
Classroom: 20.0
Lab: 40.0
Offered: Day
Course Fee: Resident: $106.00 Non Resident: $298.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Radiation and Meteorological Measurements, 421
Course Number: 421
Instructor: Rao, C. R. Nagaraja (503)754-4557
Department: Atmospheric Sciences
Program: Solar Energy Meteorological Research and Training Site
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 7.0
Contact Hours: 70.0
Classroom: 20.0
Lab: 40.0
Offered: Day
Course Fee: Resident: $106.00 Non Resident: $298.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Solar Related Courses

Solar Energy Thermal Processes
Course Number: ME 424
Instructor: Larson, Milton B. (503)754-4646
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0 Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Special Studies
Course Number: AE 199
Instructor: Hellickson, Martin L. (503)754-2041

Department: Agricultural Engineering
Student Level: All Levels
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 1.5
Contact Hours: 15.0
Classroom: 10.0
Independent Study: 3.0
Workshop: 2.0
Offered: Day
Course Fee: Resident: $61.00
Non Resident: $112.00
Prerequisites: No

PORTLAND STATE UNIVERSITY

P O Box 751
Portland, OR 97207
(503)229-4411 (003216)

Tuition (Full Time):

Resident: $260.00 Non Resident: $876.00

Solar Related Courses

Solar Heating Design
Course Number: ASE 410 SD
Instructor: Tsongas, George
(503)229-4292
Department: Engineering and Applied Science
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $65.00
Non Resident: $65.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF OREGON

Eugene, OR 97403
(503)686-3111 (003223)

Tuition (Full Time):

Resident: $263.00 Non Resident: $879.00

Solar Related Courses

Advanced Environmental Control Systems Seminar
Course Number: ARCH 407G
Instructor: Baker, M. Steven
(503)686-3631
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Seminar: 40.0
Offered: Day
Course Fee: Resident: $98.00
Non Resident: $251.00
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Greenhouse Techniques; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Environmental Control Systems, 321
Course Number: ARCH 321
Instructor: Reynolds, John S.
(503)686-3631
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $115.00
Non Resident: $319.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating

Environmental Control Systems, 322
Course Number: ARCH 322
Instructor: Reynolds, John S.
(503)686-3631
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $115.00
Non Resident: $319.00
Prerequisites: Yes
Topics Covered Extensively: Plumbing Techniques; Solar Domestic Hot Water

Environmental Control Systems, 323
Course Number: ARCH 323
Instructor: Reynolds, John S.
(503)686-3631
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $115.00
Non Resident: $319.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating

Sun as a Future Energy Source
Course Number: PH 116
Instructor: McDaniels, D. K.
(503)686-4765
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $98.00
Non Resident: $251.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Domestic Hot Water; Solar Heating

Junior and Community Colleges

CLACKAMAS COMMUNITY COLLEGE

Oregon City, OR 97045
(503)656-2631. (004878)

Solar Related Courses

Introduction to Appropriate Energy *
Instructor: Aronson, Mike
(503)656-2631
Department: Physical Science
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 22.0
Lab: 11.0
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design; Solar Heating

LINN-BENTON COMMUNITY COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

Solar Energy *
Course Number: 6.221
Department: Engineering Technology
Program: Engineering Technology - Solar Energy Option *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0

Classroom: 33.0
Topics Covered Extensively: *Bioconversion*; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Materials; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Wind Energy Conversion Systems

Solar Technical Training

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

MOUNT HOOD COMMUNITY COLLEGE

26000 Southeast Stark
Gresham, OR 97030
(503)667-1561 (003204)

Tuition (Full Time):

Resident: $42.00 Non Resident: $48.00

Solar Related Courses

Heating with Solar Energy
Course Number: DRX 16
Instructor: Lloyd, Bill
(503)667-7480
Department: Technical
Student Level: All Levels; Skilled Labor; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 24.0
Field Trips: 6.0
Offered: Evening
Course Fee: Resident: $42.00
Non Resident: $48.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water

ROGUE COMMUNITY COLLEGE

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

Solar Related Courses

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

UMPQUA COMMUNITY COLLEGE

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

Other Educational Institutions and Organizations

OREGON GRADUATE CENTER

19600 NW Walker Road
Beaverton, OR 97005
(503)645-1121 (008858)

Tuition (Full Time):

Resident: $1,000.00 Non Resident: $1,000.00

Solar Related Courses

Point Defects
Instructor: Eror, N.
(503)645-1121
Department: Materials Science
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 36.0
Hrs. per week: 4.0
Contact Hours: 144.0
Classroom: 144.0
Offered: Day
Course Fee: Resident: $680.00
Non Resident: $680.00
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

Solid State Physics
Instructor: Diskomore J.
(503)645-7121
Department: Applied Physics
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 36.0
Hrs. per week: 4.0
Contact Hours: 144.0
Classroom: 144.0
Offered: Day
Course Fee: Resident: $680.00
Non Resident: $680.00
Topics Covered Extensively: Materials; Photovoltaics and Solar Cells

Pennsylvania

Colleges and Universities

BEAVER COLLEGE

Glenside, PA 19038
(215)884-3500 (003235)

Tuition (Full Time):
Resident: $240.00

Solar Related Courses

Seminar: The Energy Crisis
Course Number: ES 405
Instructor: Huber, H. Stephen (215)884-3500 EXT.449
Department: Environmental Studies
Student Level: College Graduate; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 5.0; Hrs. per week: 10.0
Contact Hours: 50.0
Classroom: 12.0
Seminar: 30.0
Field Trips: 8.0
Offered: Day
Course Fee: Resident: $240.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

CALIFORNIA STATE COLLEGE

California, PA 15419
(412)938-4000 (003316)

Solar Related Courses

Advanced Energy and Power I
Course Number: ENT 28
Instructor: Hallidy, Pajerski
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Ocean Systems; Solar Marketing/Economic Analysis

CARNEGIE-MELLON UNIVERSITY

5000 Forbes Avenue
Pittsburgh, PA 15213
(412)578-2000 (003242)

Tuition (Full Time):
Resident: $4,700.00

Solar Related Courses

Solar Energy
Course Number: 24-739
Instructor: Osterle, J. F. (412)578-2502
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $650.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Heating; Solar Systems Design

DICKINSON COLLEGE

Carlisle, PA 17013
(717)243-5121 (003253)

Solar Related Courses

Appropriate Technology - Is Small Beautiful? *
Course Number: ES 112
Instructor: Kromkowski, F. (717)243-5121
Department: Environmental Science
Student Level: All Levels
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 3.0; Hrs. per week: 15.0
Contact Hours: 45.0
Classroom: 39.0
Field Trips: 6.0
Prerequisites: No
Topics Covered Extensively: Appropriate Technology

Environmental Economics *
Course Number: ECON 222
Instructor: Houston, C. (717)243-5121
Department: Economics
Student Level: All Levels
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 13.0; Hrs. per week: 3.0
Contact Hours: 39.0
Classroom: 30.0
Field Trips: 9.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Solar Marketing/Economic Analysis

Topics in Contemporary Physics
Course Number: PHS 461
Instructor: Long, H. (717)243-5121
Department: Physics and Astronomy
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 36.0
Seminar: 6.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

DREXEL UNIVERSITY

32nd & Chestnut Street
Philadelphia, PA 19104
(215)895-2000 (003256)

Tuition (Full Time):
Resident: $3,300.00 Non Resident: $3,300.00

Solar Related Courses

Solar Energy, Mechanical Engineering
Course Number: E-680
Instructor: Savery, C. William (215)895-2294
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 25.0
Seminar: 3.0
Field Trips: 2.0
Offered: Day
Course Fee: Resident: $270.00; Non Resident: $270.00
Prerequisites: Yes
Topics Covered Extensively: Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Energy, Physics
Course Number: N 775
Instructor: Larson, Donald C. (215)895-2724
Department: Physics and Atmospheric Sciences
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Heating and Cooling
Instructor: Larson, Donald (215)895-2724
Department: Continuing Professional Education
Student Level: College Graduate
Duration: No. of weeks: 8.0; Hrs. per week: 2.5
Contact Hours: 20.0
Classroom: 18.0
Lab: 2.0
Offered: Evening
Course Fee: Resident: $280.00; Non Resident: $280.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

EAST STROUDSBURG STATE COLLEGE

East Stroudsburg, PA 18301
(717)424-3547 (003320)

Tuition (Full Time):
Resident: $475.00 Non Resident: $900.00

Solar Related Courses

Solar Energy
Course Number: PHYS 118
Instructor: Houle, Paul N. (717)424-3350
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $90.00; Non Resident: $90.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Swimming Pool Heating

GANNON COLLEGE

Erie, PA 16501
(814)456-7523 (003266)

Solar Related Courses

Design Project for Solar Heat *

Course Number: E 160
Instructor: Dowell, Milt
(814)838-1683
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0
Hrs. per week: 6.0
Contact Hours: 84.0
Topics Covered Extensively: Solar Heating

GETTYSBURG COLLEGE

Gettysburg, PA 17325
(717)334-3131 (003268)

Solar Related Courses

Energy and Environment *

Course Number: 140
Instructor: Cowan, David J.
(717)334-3131
Department: Physics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems

INDIANA UNIVERSITY OF PENNSYLVANIA

Indiana, PA 15705
(412)357-2100 (008810)

Tuition (Full Time):

Resident: $450.00 Non Resident: $850.00

Solar Related Courses

Solar Energy

Course Number: PY 481
Instructor: Hershman, K. E.
(412)357-2192
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 38.0
Seminar: 4.0
Offered: Day
Course Fee: Resident: $111.00
Non Resident: $204.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating

JUNIATA COLLEGE

1700 Moore Street
Huntingdon, PA 16652
(814)643-4310 (003279)

Tuition (Full Time):

Resident: $400.00

Solar Related Courses

Special Topics - Solar Heating

Course Number: PC 415
Instructor: Pfrogner
(814)643-4310 EXT.71
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.5 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 15.0
Contact Hours: 150.0
Classroom: 15.0
Independent Study: 35.0
Lab: 100.0
Offered: Day; Evening; Weekend
Prerequisites: No
Topics Covered Extensively: Solar Heating

KUTZTOWN STATE COLLEGE

Kutztown, PA 19530
(215)683-3511 (003322)

Solar Related Courses

Our Physical Ecosystem

Course Number: PHY 015
Instructor: Walter, Karl F.
(215)683-3511 EXT.470
Department: Physical Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

LOCK HAVEN STATE COLLEGE

Ulmer Hall
Lock Haven, PA 17745
(717)748-5351 (003323)

Tuition (Full Time):

Resident: $475.00 Non Resident: $950.00

Solar Related Courses

Matter and Energy

Course Number: PS 101
Instructor: Cooper, Dale E.
(717)748-5351 EXT.461
Department: Chemisty, Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $117.00
Non Resident: $234.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Distributed Solar Power Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

PENNSYLVANIA STATE UNIVERSITY CAPITOL CAMPUS

Middletown, PA 17057
(717)787-7737 (006814)

Solar Related Courses

Solar Energy - Practical Applications

Course Number: MET 420
Instructor: Aungst, William K.
Department: Mechanical Design Eng. Tech.
Student Level: College Junior/Senior
Academic Credits: 4.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design

PENNSYLVANIA STATE UNIVERSITY FAYETTE CAMPUS

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

Tuition (Full Time):

Resident: $393.00 Non Resident: $916.00

Solar Curriculum

Solar Heating and Cooling Technology

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

Program and Curriculum Related Courses

Analysis of Solar Heating and Cooling Systems

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

Economics of Solar Technology

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

Heat Storage and Distribution Systems
Course Number: ST 803
Instructor: Meredith, David B. (412)437-2801 EXT.76
Department: Engineering
Program: Solar Heating and Cooling Technology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 20.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $129.00
Non Resident: $345.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems

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

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

:NNSYLVANIA STATE UNIVERSITY
MAIN CAMPUS

University Park, PA 16802
(814)863-4700 (006965)

Tuition (Full Time):
Resident: $456.00 Non Resident: $916.00

Solar Related Courses

Solar Energy Building System Design
Course Number: AE-497
Instructor: Gilman, Stanley F. (814)863-2091
Department: Architectural Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Course Fee: Resident: $57.00
Non Resident: $115.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

PENNSYLVANIA STATE UNIVERSITY
SHENANGO VALLEY CAMPUS

147 Shenango Avenue
Sharon, PA 16146
(412)981-1640 (003345)

Solar Related Courses

Solar Heat and Cooling Technology
Course Number: PHYS 297
Instructor: Houlihan, J. F. (412)981-1640 EXT.54
Department: Physics
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 2.0
Hrs. per week: 40.0
Contact Hours: 80.0
Classroom: 50.0
Independent Study: 10.0
Lab: 20.0
Offered: Day
Course Fee: Resident: $172.00
Non Resident: $460.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

PHILADELPHIA COLLEGE OF ART

Broad & Spruce Streets
Philadelphia, PA 19102
(215)893-3100 (003350)

Tuition (Full Time):
Resident: $1,700.00

Solar Related Courses

Alternate Energy - Solar
Course Number: EN 212
Instructor: Andrews, Jack (215)893-3170
Department: Industrial and Environmental Design
Student Level: College Junior/Senior
Academic Credits: 1.5 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 20.0
Seminar: 8.0
Workshop: 20.0
Offered: Day
Course Fee: Resident: $390.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Home Construction

SAINT VINCENT COLLEGE

Latrobe, PA 15650
(412)539-9761 (003368)

Solar Related Courses

*Solar Energy **
Instructor: Heid, Roland L. (412)539-9761
Department: Physics
Student Level: All Levels
Duration: No. of weeks: 6.0
Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 18.0

SWARTHMORE COLLEGE

Swarthmore, PA 19081
(215)544-7900 (003370)

Tuition (Full Time):
Resident: $2,475.00

Solar Related Courses

Solar Energy Systems
Course Number: E 66
Instructor: McGarity, A. E. (215)544-7900
Department: Engineering
Student Level: College Junior/Senior; Professional
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Testing/ Evaluation

Solar Heating - Design
Course Number: E 90
Instructor: Bowler, D. L. (215)544-7900
Barns, C.
Orthlieb, F.
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0
Offered: Day
Topics Covered Extensively: Solar Heating; Solar Systems Design

TEMPLE UNIVERSITY

Philadelphia, PA 19122
(215)787-7000 (003371)

Tuition (Full Time):
Resident: $800.00 Non Resident: $1,400.00

Solar Related Courses

Energy and Building Design
Course Number: ARCH 397
Instructor: Ridenour, Steven (215)787-8824
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 36.0
Independent Study: 3.0
Lab: 3.0
Offered: Day
Course Fee: Resident: $67.00; Non Resident: $117.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA 19104
(215)243-5000 (003378)

Solar Related Courses

Independent Study and Research
Course Number: MEAM 999
Student Level: College Graduate
Topics Covered Extensively: Introduction to Solar Energy

Principles of Solar Energy Utilization
Course Number: MEAM 591
Instructor: Wolf (215)243-4825
Department: Mechanical Engineering
Topics Covered Extensively: Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Cooling

Undergraduate Research, Independent Study
Course Number: MEAM 99

UNIVERSITY OF SCRANTON

Scranton, PA 18510
(717)961-7423 (003384)

Tuition (Full Time):
Resident: $1,200.00 Non Resident: $2,000.00

Solar Related Courses

Undergraduate Research
Course Number: Physics 121
Instructor: Kalafut, J. R. (717)961-7508
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Four-One-Four)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Independent Study: 30.0
Offered: Day
Course Fee: Resident: $216.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Systems Installation/ Maintenance

WIDENER COLLEGE

Chester, PA 19013
(215)876-5551 (003313)

Tuition (Full Time):
Resident: $1,600.00

Solar Related Courses

Solar Energy
Course Number: S/T942
Instructor: Good, Robert (215)876-5551 EXT.288
Department: Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 1.5 (Semester)
Duration: No. of weeks: 6.0; Hrs. per week: 3.0
Contact Hours: 18.0
Classroom: 18.0
Offered: Day
Course Fee: Resident: $225.00
Prerequisites: No
Topics Covered Extensively: Centralized Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Process Heat; Solar Heating

WILKES COLLEGE

Wilkes-Barre, PA 18703
(717)824-4651 (003394)

Solar Related Courses

Alternate Energy Sources *
Course Number: EE 390
Instructor: Nejib, U. R. (717)824-4651
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 28.0
Independent Study: 14.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Passive Solar Systems; Photovoltaics and Solar Cells; Centralized Solar Power Systems; Wind Energy Conversion Systems

Energy Conservation - Alternatives and Methods *
Course Number: ED 594
Instructor: Nejib, U. R. (717)824-4651
Department: Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 3.0; Hrs. per week: 38.0
Contact Hours: 114.0
Classroom: 36.0
Seminar: 54.0
Lab: 24.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Energy Policy Development; Centralized Solar Power Systems

Junior and Community Colleges

DELAWARE COUNTY COMMUNITY COLLEGE

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

Solar Technical Training

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

Solar Related Courses

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

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

HARRISBURG AREA COMMUNITY COLLEGE

Harrisburg, PA 17110
(717)236-9533 (003273)

Solar Technical Training

Solar Heating *
Department: Community Resources Institute
Contact: Brown, Hazel (717)236-9535
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Heating - Food and Heat Producing Greenhouses *

Department: Community Resources Institute
Program: Solar Heating *
Student Level: All Levels
Duration: No. of weeks: 3.0
Hrs. per week: 3.0
Contact Hours: 9.0
Classroom: 9.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Distributed Solar Power Systems; Process Heat; Solar Heating

LEHIGH COUNTY COMMUNITY COLLEGE

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

Tuition (Full Time):

Resident: $435.00 Non Resident: $1,305.00

Solar Curriculum

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

Program and Curriculum Related Courses

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

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

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

Energy Systems II
Course Number: AET 205
Instructor: Walker, J. Robert
(215)799-2121 EXT.1500
Department: Physics
Program: Alternate Energy Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $29.00
Non Resident: $58.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Materials; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Design

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

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

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

WILLIAMSPORT AREA COMMUNITY COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

Vocational / Technical Schools

PENNSYLVANIA INSTITUTE OF TECHNOLOGY

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

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

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

TRIANGLE INSTITUTE OF TECHNOLOGY

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

Tuition (Full Time):
Resident: $1,500.00 Non Resident: $1,500.00

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

Puerto Rico

Colleges and Universities

UNIVERSITY OF PUERTO RICO

Mayaguez, PR 00708
(800)832-4040 (003944)

Solar Related Courses

Energy Bioconversion *

Course Number: CiFi
Instructor: Alexander, Alex
Department: Agronomy and Soils
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Storage Systems; Photoconversion

Physics of Energy Systems

Course Number: PHYS 428
Instructor: Azziz, Nestor
(809)832-4040 EXT.2241
Department: Physics, Arts and Sciences
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 30.0
Lab: 45.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Photoconversion; Photovoltaics and Solar Cells; Thermochemical Conversion

Solar Energy Applications

Course Number: INME 584
Instructor: Soderstrom, K. G.
(809)832-4040
Department: Mechanical and Nuclear Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Junior and Community Colleges

UNIVERSITY OF PUERTO RICO, BAYAMON REGIONAL COLLEGE

Box 4296 Bayamon Gardens Station
ayamon, PR 00619
309)763-1600 (010922)

Tuition (Full Time):
Resident: $97.00 Non Resident: $97.00

Solar Related Courses

Solar Energy Technology and Laboratory

Course Number: COEN 261
Instructor: Crouch, Alfred J.
(809)786-8725
Department: Physics, Chemistry
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $35.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

Rhode Island

Colleges and Universities

BROWN UNIVERSITY

Providence, RI 02912
(401)863-1000 (003401)

Solar Related Courses

Photovoltaic Solar Cells *

Course Number: EN 292
Instructor: Loferski, Joseph J.
(401)863-2671
Department: Engineering
Student Level: College Graduate
Academic Credits: 4.0
Duration: No. of weeks: 20.0
Hrs. per week: 3.0
Contact Hours: 60.0
Classroom: 60.0
Topics Covered Extensively: Photovoltaics and Solar Cells

UNIVERSITY OF RHODE ISLAND

Kingston, RI 02881
(401)792-1000 (003414)

Solar Related Courses

Residential Solar Heating *

Course Number: EXT
Instructor: Wilson, C. J.
(401)792-2186
Department: Engineering (Extension)
Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 3.0
Contact Hours: 24.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Heating

Vocational / Technical Schools

HALL INSTITUTE

330 Harborside Blvd.
Providence, RI 02905 (090120)

Curriculum with Solar Study

Solar Energy Seminar *

Degree: Certificate
Contact: Rogers, Charles K.
(401)461-6000
Program Training: Architecture-Solar Specialization; Solar Energy Education; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Energy Seminar *

Instructor: Rogers, Charles K.
(401)461-6000
Program: Solar Energy Seminar *
Student Level: All Levels
Duration: No. of weeks: 4.0
Hrs. per week: 3.0

Contact Hours: 12.0
Classroom: 12.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

South Carolina

Colleges and Universities

CENTRAL WESLEYAN COLLEGE

Central, SC 29630
(803)639-2453 (003422)

Solar Related Courses

Physical Science Studies
Course Number: PHY 400
Instructor: Schmutz, J. L. (803)639-2453 EXT.28
Department: Science
Student Level: All Levels; Managerial; Skilled Labor; Layperson
Duration: No. of weeks: 16.0
Hrs. per week: 2.0
Contact Hours: 32.0
Offered: Day
Course Fee: Resident: $168.00
Prerequisites: No

CLEMSON UNIVERSITY

Clemson, SC 29631
(803)656-3371 (003425)

Tuition (Full Time):

Resident: $415.00 Non Resident: $890.00

Solar Related Courses

Energy Conversion
Course Number: ECE 403
Instructor: Lathrop, J. W. (803)656-3371
Department: Electical and Computer Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $89.00
Non Resident: $197.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Solar Heating; Solar Systems Design

Energy Conversion
Course Number: ME 816
Instructor: Hester, J. C. (803)656-3201
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 16.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Solar Heating

Energy Sources for the Future
Course Number: PHYS 245
Instructor: McKelvey, John P. (803)656-3417
Department: Physics and Astronomy
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Course Fee: Resident: $89.00
Non Resident: $197.00
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

COLLEGE OF CHARLESTON

Charleston, SC 29401
(803)722-0181 (003428)

Tuition (Full Time):

Resident: $375.00 Non Resident: $825.00

Solar Related Courses

Independent Study
Course Number: PHY 411
Instructor: Lindstrom, William A. (803)792-5593
Department: Physics
Student Level: College Junior/Senior
Duration: No. of weeks: 14.0
Hrs. per week: 2.0
Contact Hours: 28.0
Independent Study: 28.0
Offered: Day
Prerequisites: Yes

UNIVERSITY OF SOUTH CAROLINA AT CONWAY

Route 6
P O Box 275
Conway, SC 29526
(803)777-6064 (003451)

Tuition (Full Time):

Resident: $366.00 Non Resident: $816.00

Solar Related Courses

Independent Study, Physics
Course Number: PHY 399
Instructor: Robison, Harry (803)347-3161
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 6.0 (Semester)
Offered: Day
Course Fee: Resident: $90.00
Non Resident: $210.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Solar Cooling; Solar Heating; Solar Systems Testing/Evaluation; Thermochemical Conversion

UNIVERSITY OF SOUTH CAROLINA MAIN CAMPUS

Columbia, SC 29208
(803)777-0411 (003448)

Tuition (Full Time):

Resident: $90.00 Non Resident: $210.00

Solar Related Courses

Energy Systems I
Course Number: ENGR 536

Instructor: McMillan, H. K.
(803)777-2252
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $90.00
Non Resident: $210.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Components-Solar

Solar Heating and Cooling
Course Number: 536
Instructor: McMillan
(803)777-2252
Department: Mechanical Engineering
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 36.0
Lab: 6.0
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Systems Design

UNIVERSITY OF SOUTH CAROLINA AT SUMTER

Sumter, SC 29150
(803)777-6865 (012112)

Solar Related Courses

Introduction to Engineering *
Course Number: ENGR 110
Instructor: Nerbun, R. C.
(803)775-6341
Department: Engineering
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0

Junior and Community Colleges

MIDLANDS TECHNICAL COLLEGE

Drawer Q
Columbia, SC 29250
(803)796-1266 (003993)

Tuition (Full Time):

Resident: $150.00 Non Resident: $250.00

Solar Related Courses

Air Conditioning
Course Number: MET 232
Instructor: Sallman, John B.
(803)782-5471 EXT.257
Department: Mechanical Engineering Technology
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 66.0
Classroom: 33.0
Lab: 33.0
Offered: Day
Course Fee: Resident: $52.00
Prerequisites: Yes

PIEDMONT TECHNICAL COLLEGE

GREENWOOD, SC 29646 (003992)

Solar Related Courses

Solar Energy for Climate Control *
Course Number: ACR 204
Instructor: Ledford, John
(803)223-8357 EXT.64
Department: Heating and Air Conditioning
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 11.0
Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 44.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

TRI COUNTY TECHNICAL COLLEGE

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

Solar Related Courses

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

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

Vocational / Technical Schools

AIKEN TECHNICAL COLLEGE

P O Drawer 696
Aiken, SC 29801
(803)593-9231 (010056)

Tuition (Full Time):

Resident: $110.00 Non Resident: $158.00

Solar Related Courses

Heat Power
Course Number: MET 230
Instructor: Shakir, Abbas M.
(803)593-9231 EXT.316
Department: Electro-Mechanical Eng. Technol.
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 11.0
Hrs. per week: 6.0
Contact Hours: 64.0
Classroom: 34.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $34.00
Non Resident: $51.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

BEAUFORT TECHNICAL COLLEGE

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

Tuition (Full Time):

Resident: $120.00 Non Resident: $120.00

Solar Related Courses

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

CHESTERFIELD-MARLBORO TECHNICAL COLLEGE

P O Drawer 928
Cheraw, SC 29520
(803)537-5286 (007602)

Tuition (Full Time):

Resident: $125.00 Non Resident: $125.00

Solar Related Courses

Conversion of Solar Energy
Course Number: ACR 204

Instructor: Smith, Donald R. (803)537-5286
Department: Air Conditioning
Student Level: College Freshman/Sophomore; Professional
Academic Credits: 4.0 (Quarter)
C.E.U.'s: 40.0
Duration: No. of weeks: 11.0; Hrs. per week: 4.0
Contact Hours: 44.0
Classroom: 44.0
Offered: Day; Evening
Course Fee: Resident: $42.00; Non Resident: $42.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Plumbing Techniques; Process Heat; Sheet Metal Techniques: Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance

FLORENCE DARLINGTON TECHNICAL COLLEGE

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

Tuition (Full Time):

Resident: $115.00 Non Resident: $140.00

Solar Related Courses

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

HORRY GEORGETOWN TECHNICAL COLLEGE

Highway 501 East
Conway, SC 29526
(803)347-3186 (060972)

Tuition (Full Time):

Resident: $100.00 Non Resident: $200.00

Solar Related Courses

Conversion of Solar Energy
Course Number: ACR 204
Instructor: Harper, Wade (803)347-3186 EXT.262
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 7.0
Contact Hours: 84.0
Classroom: 36.0
Workshop: 48.0
Offered: Day; Evening
Course Fee: Resident: $36.00; Non Resident: $72.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems: Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

SPARTANBURG TECHNICAL COLLEGE

Drawer 4386
Spartanburg, SC 29304
(803)576-5770 (003994)

Tuition (Full Time):

Resident: $100.00

Solar Technical Training

Basic Solar Heating for the Home
Department: Community Interest, Continuing Education
Contact: Hearthly, J. (803)576-5770
Program Training: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Basic Solar Heating
Course Number: SOL 301
Instructor: Watts, John R. (803)576-5770 EXT.206
Department: Continuing Education
Program: Basic Solar Heating for the Home
Student Level: All Levels; Layperson; Professional
Contact Hours: 12.0
Classroom: 10.0
Workshop: 2.0
Offered: Evening
Course Fee: Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Heating

TRIDENT TECHNICAL COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

YORK TECHNICAL COLLEGE

U S 21 Bypass
Rock Hill, SC 29730
(803)328-3843 (003998)

Tuition (Full Time):

Resident: $90.00 Non Resident: $180.00

Solar Related Courses

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

South Dakota

Colleges and Universities

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

500 East Saint Joe Street
Rapid City, SD 57701
(605)394-2411 (003470)

Tuition (Full Time):
Resident: $394.00 Non Resident: $794.80

Solar Related Courses

Energy Conservation and Utilization

Course Number: ME 418
Instructor: Cheung, Augustine C.
(605)394-2408
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $58.50
Non Resident: $133.65
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Domestic Hot Water; Solar Heating; Thermochemical Conversion; Wind Energy Conversion Systems

Solar Energy

Course Number: ME 613
Instructor: Chiang, C. W.
(605)394-2401
Department: Mechanical Engineering
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $92.25
Non Resident: $175.65
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy

SOUTH DAKOTA STATE UNIVERSITY

University Station
Brookings, SD 57007
(605)688-4111 (003471)

Solar Related Courses

Design of Thermal Systems

Course Number: ME 418
Instructor: Eno, B.
(605)688-4817
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $81.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF SOUTH DAKOTA AT SPRINGFIELD

Springfield, SD 57062
(605)369-2201 (003472)

Tuition (Full Time):
Resident: $18.50 Non Resident: $39.55

Solar Related Courses

Alternative Energy System

Course Number: ACT 305
Instructor: Baily, Lewis
(605)369-2881
Department: Air Conditioning and Refrig. Technol.
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $18.50
Non Resident: $39.55
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

UNIVERSITY OF SOUTH DAKOTA MAIN CAMPUS

Vermillion, SD 57069
(605)677-5641 (003474)

Tuition (Full Time):
Resident: $279.00 Non Resident: $632.00

Solar Related Courses

The Energy Crisis

Course Number: ESC/PHY 385
Instructor: Jones, Robert W.
(605)624-5649
Department: Earth Science, Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $55.80
Non Resident: $126.30
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

Vocational / Technical Schools

MITCHELL VOCATIONAL TECHNICAL SCHOOL

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

Solar Technical Training

Solar Water Heating

Degree: Certificate
Heating and Air Conditioning
Department: Heating and Air Conditioning
Contact: Hunsted, Carroll
(605)996-6671 EXT.125
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential

Tennessee

Colleges and Universities

CHRISTIAN BROTHERS COLLEGE

650 East Parkway
Memphis, TN 38104
(901)278-0100 (003482)

Tuition (Full Time):
Resident: $1,200.00 Non Resident: $1,200.00

Solar Related Courses

Energy Options for the Future
Course Number: ENGR 404
Instructor: Brown, R. W. (001)270-0100 EXT.225
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $234.00; Non Resident: $234.00
Prerequisites: Yes

EAST TENNESSEE STATE UNIVERSITY

P O Box 24520-A
Johnson City, TN 37601
(615)929-4112 (003487)

Tuition (Full Time):
Resident: $157.00

Curriculum with Solar Study

Solar Research
Degree: Bachelor, Master
Geography
Department: Geography
Contact: Peplies, Robert W. (615)928-0995
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Problems in Geography - Solar Energy, 4997
Course Number: 4997
Instructor: Peplies, Robert W. (615)928-0995
Department: Geography
Program: Solar Research
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 11.0
Independent Study: 22.0
Offered: Day
Course Fee: Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Solar Marketing/Economic Analysis

Problems in Geography - Solar Energy, 5901
Course Number: 5901
Instructor: Peplies, Robert W. (615)928-0995
Department: Geography
Program: Solar Research
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 11.0
Independent Study: 22.0
Offered: Day
Course Fee: Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Solar Marketing/Economic Analysis

MEMPHIS STATE UNIVERSITY

Memphis, TN 38152
(901)454-2000 (003509)

Solar Related Courses

*Fundamentals of Solar Engineering **
Course Number: MECH 4317
Instructor: Perry, Edward H. (901)454-2174
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Components-Solar; Solar Systems Design

MIDDLE TENNESSEE STATE UNIVERSITY

Murfreesboro, TN 37130
(615)898-2300 (003510)

Solar Related Courses

*Solar Home Design **
Course Number: 470C
Instructor: Mathis, William H. (615)898-2778
Department: Industrial Studies
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 8.0
Contact Hours: 48.0
Classroom: 40.0
Lab: 8.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Heating

SOUTHWESTERN AT MEMPHIS

2000 North Parkway
Memphis, TN 38112
(901)274-1800 (003519)

Tuition (Full Time):
Resident: $122.00 Non Resident: $122.00

Solar Related Courses

Energy Analysis
Instructor: Taylor, J. H. (901)274-1800 EXT.376
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Four-One-Four)
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Course Fee: Resident: $216.00; Non Resident: $216.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Systems Design

TENNESSEE KNOXVILLE, U OF

Knoxville, TN 37916 (003530)

Solar Related Courses

*Energy Management **
Course Number: 5410
Instructor: Henry, Harold (615)974-3161
Department: Business Administration
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 25.0
Job: 5.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer

*Solar Energy Utilization **
Instructor: Reid, Robert L. (615)974-5115
Department: Engineering, Mechanical and Aerospace Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design

TENNESSEE TECHNOLOGICAL UNIVERSITY

P O Box 5014
Cookeville, TN 38501
(615)528-3241 (003523)

Tuition (Full Time):
Resident: $164.00 Non Resident: $476.00

Solar Related Courses

Solar Energy Processes and Systems
Course Number: ME 541
Instructor: Hewitt, Hudy C. (615)528-3269
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0; Hrs. per week: 3.0

Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Course Fee: Resident: $45.00
Non Resident: $123.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNION UNIVERSITY

45 Bypass
Jackson, TN 38301
(901)668-1818 (003528)

Tuition (Full Time):
Resident: $20.00

Solar Related Courses

Solar Energy
Instructor: Hathcox, Kyle
(901)668-1818 EXT.247
Department: Physics, Chemistry
Student Level: Layperson
Duration: No. of weeks: 5.0
Hrs. per week: 2.0
Contact Hours: 10.0
Classroom: 4.0
Seminar: 4.0
Lab: 2.0
Offered: Evening
Course Fee: Resident: $20.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

Chattanooga, TN 37401
(615)755-4011 (003529)

Solar Related Courses

Solar Energy Utilization
Course Number: ME 4740
Instructor: Russell, Lynn
Duration: No. of weeks: 9.0
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

UNIVERSITY OF TENNESSEE AT NASHVILLE

Nashville, TN 37203
(615)251-1111 (003533)

Solar Related Courses

Energy Conversion Systems
Course Number: ME 4150
Instructor: Knight, Charles V.
(615)251-1341
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy

Junior and Community Colleges

CHATTANOOGA STATE TECHNICAL COMMUNITY COLLEGE

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

Tuition (Full Time):
Resident: $84.00 Non Resident: $396.00

Curriculum with Solar Study

Heating, Ventilation, and Air Conditioning Technology
Degree: Associate
Mechanical Engineering
Department: Mechanical Engineering Technology
Contact: Townsend, Terry E.
(615)622-6262 EXT.258
Program Training: Scientific Research and Development in Solar Energy; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance; Architecture-Solar Specialization

Program and Curriculum Related Courses

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

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

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

Passive Design Fundamentals
Course Number: MD292
Instructor: Townsend, Terry E.
(615)622-2626, Ext. 258
Department: Mechanical Engineering Technology
Program: Heating, Ventilation and Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 20.0
Lab: 30.0
Offered: Day, Evening
Course Fee: Resident: $21
Non Resident: $99
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Home Construction

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

Solar Technical Training

Solar Installation Certification Program
Degree: Certificate
Solar fundaments, hardware and system maintenance.
Department: Mechanical Engineering Technology
Contact: Townsend, Terry E.
(615)622-6262 EXT.258
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

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

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

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

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

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

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

CLEVELAND STATE COMMUNITY COLLEGE

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

Solar Technical Training

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

Program and Curriculum Related Courses

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

MOTLOW STATE COMMUNITY COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

Vocational / Technical Schools

STATE TECHNICAL INSTITUTE AT KNOXVILLE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

Active Solar Design
Course Number: ME 274
Instructor: Magnuson, Dwight
partment: Mechanical Engineering
ogram: Alternate Energy Specialization
Academic Credits: 4.0
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

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

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

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

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

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

STATE TECHNICAL INSTITUTE AT MEMPHIS

5983 Macon Cove
mphis, TN 38134
)1)388-1200 (007105)

Tuition (Full Time):
Resident: $70.00

Solar Related Courses

Solar Energy I
Course Number: AR 724
Instructor: Nichols, Frank R. (901)377-4154
Department: Architectural Engineering Technology
Student Level: College Freshman/Sophomore; Professional
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 6.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $26.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

Texas

Colleges and Universities

AMERICAN TECHNOLOGICAL UNIVERSITY

Killeen, TX 76541
(817)526-1261 (011854)

Solar Curriculum

Energy Management Sciences *
Degree: Master Science
Department: Management and Business
Contact: Smith, Robin
Kincel, John
(817)526-1171
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Alternative Energy Sources *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Heat and Energy Transfer; Wind Energy Conversion Systems

Applied Solar Energy *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling

Basics of Solar Energy *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Heating; Solar Cooling

Computer Simulation *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate

Direct Energy Conversion *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Economics of Alternate Energy Sources *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Marketing/Economic Analysis

Legislative Aspects of Solar Technology *
Department: Management and Business
Program: Energy Management Sciences *

Student Level: College Graduate
Topics Covered Extensively: Solar Law/Legislation

Management of Energy Resources and Development *
Course Number: MSBA 5382
Instructor: French, Hobert L. (817)526-1271
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Marketing/Economic Analysis

Passive Systems Design
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Passive Solar Systems; Solar Home Construction; Solar Heating; Solar Cooling

Solar Agricultural Applications *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Passive Solar Systems; Process Heat

Solar Heating and Cooling *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Energy Storage Systems; Materials; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Systems Design *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Thermal Storage *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Appropriate Technology; Energy Storage Systems; Passive Solar Systems

Wind Systems *
Department: Management and Business
Program: Energy Management Sciences *
Student Level: College Graduate
Topics Covered Extensively: Wind Energy Conversion Systems

HOUSTON BAPTIST UNIVERSITY

7502 Fondren Road
Houston, TX 77074
(713)774-7661 (003576)
Non Resident: $700.00

Solar Related Courses

Great Issues of the 20th Century
Course Number: 2322
Instructor: Byrnes, Don (713)774-7661
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Evening
Course Fee: Non Resident: $210.00
Prerequisites: No
Topics Covered Extensively: Solar Energy Policy Development

NORTH TEXAS STATE UNIVERSITY

Denton, TX 76203
(817)788-2026 (003594)

Solar Related Courses

Energy and Our Physical Environment *
Course Number: PHYS 308
Instructor: Hehn, Jack (817)788-2626
Department: Arts and Sciences, Physics
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Energy Policy Development; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

OUR LADY OF LAKE UNIVERSITY

San Antonio, TX 78285
(512)434-6711 (003598)

Solar Related Courses

Owner Built Solar Air Heaters *
Instructor: Nawrocki, David (512)822-9935
Department: Continuing Education
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 5.0
Contact Hours: 5.0
Classroom: 2.0
Lab: 3.0

RICE UNIVERSITY

Houston, TX 77001
(713)527-8101 (003604)

Solar Curriculum

Space Solar Power Research *
Degree: Doctorate, Master
Department: Multidisciplinary
Contact: Freeman, John W. (713)527-8101
Program Training: Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Space Utilization and Industrialization *
Course Number: 488
Instructor: Freeman, J. (713)527-8101
Department: Space Physics
Program: Space Solar Power Research *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0

Solar Related Courses

Solar Power *
Course Number: 531
Instructor: Bayazitoglu, Yildiz (713)527-8101
Department: Mechanical Engineering, Materials Science
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Solar Cooling

SOUTHERN METHODIST UNIVERSITY

Dallas, TX 75275
(214)692-2000 (003613)

Solar Related Courses

Photovoltaic Solar Energy Conversion
Course Number: EE 5315
Instructor: Chu, Ting L. (214)692-3014
Department: Electrical Engineering
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Materials; Photovoltaics and Solar Cells

Solar Energy Applications *
Course Number: TF 4391
Instructor: Blum, Harold (214)692-3498
Department: Engineering, Chemical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 5.0; Hrs. per week: 9.0
Contact Hours: 45.0
Classroom: 39.0
Lab: 6.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design

TEXAS A&I UNIVERSITY

Kingsville, TX 78363
(512)595-2111 (003639)

Solar Related Courses

Environmental Chemistry *
Course Number: 304
Instructor: Beram, J. A.
Department: Chemistry
Academic Credits: 3.0

Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0

TEXAS A&M UNIVERSITY MAIN CAMPUS

College Station, TX 77843
(713)845-3211 (010366)

Curriculum with Solar Study

Graduate Program and Undergraduate Program *

Degree: Doctorate, Master
Department: Mechanical Engineering
Contact: Jenkins, Peter E.
(713)845-1251

Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Thermal Processes *

Course Number: 689
Instructor: Jenkins, Peter E.
(713)845-1251
Department: Mechanical Engineering
Program: Graduate Program and Undergraduate Program *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design; Solar Systems Testing/Evaluation; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

Alternative Architecture *

Course Number: 645
Instructor: Zweig, Peter
(713)845-1015
Department: Architecture
Program: Graduate Program and Undergraduate Program *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 3.0
Hrs. per week: 16.0
Contact Hours: 48.0

Applied Solar Energy *

Course Number: ME 462
Instructor: Jenkins, Peter E.
(713)845-1251
Department: Mechanical Engineering
Program: Graduate Program and Undergraduate Program *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Systems Design; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Solar Cooling

Direct Energy Conversion *

Course Number: ME 473
Instructor: Jenkins, Peter E.
(713)845-1251
Department: Mechanical Engineering
Program: Graduate Program and Undergraduate Program *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

Energy Optimization Techniques *

Course Number: ARCH 689
Instructor: Degelman, Larry O.
(713)845-1015
Department: Architecture
Program: Graduate Program and Undergraduate Program *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Lab: 5.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Heating

Environmental Control Systems *

Course Number: ARCH 633
Instructor: Trost, F. J.
(713)845-1017
Department: Architecture
Program: Graduate Program and Undergraduate Program *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Lab: 5.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Solar Heating

TEXAS TECH UNIVERSITY

Lubbock, TX 79409
(806)742-2011 (003644)

Curriculum with Solar Study

Interdisciplinary Engineering *

Degree: Doctorate
Philosophy - Interdisciplinary Engineering
Department: Engineering
Contact: Gilly, A. J.
(806)742-3456

Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Energy and Housing *

Instructor: Kiesling, E. W.
(806)742-3472
Department: Center for Energy Research, Engineering
Program: Interdisciplinary Engineering *
Student Level: College Graduate
Duration: No. of weeks: 1.0
Hrs. per week: 32.0
Contact Hours: 32.0
Classroom: 32.0
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design

Engineering Aspects of Resources, Processing & Utilization *

Course Number: CH.E. 4333
Instructor: Parker, Harry W.
(806)742-3553
Department: Chemical Engineering
Program: Interdisciplinary Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Bioconversion

Interdisciplinary Approach to Residential Energy Education *

Course Number: I 518
Instructor: McKown, Cora
(806)742-3153
Department: Home Economics, Family Management, Housing and Consumer Science
Program: Interdisciplinary Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 3.0
Hrs. per week: 15.0
Contact Hours: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Introduction to Solar Energy; Solar Heating; Solar Home Construction; Solar Law/Legislation; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Related Courses

Housing and Energy as Consumer Issues

Course Number: FMHC 5332
Department: Family Mgt., Housing and Cons. Sci.
Student Level: College Graduate
Duration: No. of weeks: 3.0
Topics Covered Extensively: Energy Conservation; Solar Marketing/Economic Analysis

TRINITY UNIVERSITY

715 Stadium Drive
San Antonio, TX 78284
(512)736-7011 (003647)

Solar Curriculum

Solar Energy Graduate Program

Degree: Master
Applied Solar Energy
Department: Engineering Science; Physics; Computer Science
Contact: Clark, Eugene
(512)736-7504

Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Economic Analysis of Energy and Capital Projects

Course Number: BSN 390
Instructor: Dorner, Fred H.
(512)736-7238

Department: Business Administration
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Solar Cooling; Solar Marketing/Economic Analysis

Heat Transfer and Thermodynamics

Course Number: ENGR 369G
Instructor: Andrews, Robert (512)736-7512
Department: Engineering Science
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Introduction to Solar Energy Applications

Course Number: PHY 119
Instructor: Clark, Eugene (512)736-7504
Department: Physics
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 1.0
Duration: No. of weeks: 15.0
Hrs. per week: 1.0
Contact Hours: 15.0
Classroom: 15.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Testing/Evaluation

Modeling and Computer Analysis

Course Number: ENGR 383S
Instructor: Treat, C. H. (512)736-7512
Department: Engineering Science
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Cooling

Photovoltaics

Course Number: PHYS 358G
Instructor: Loxsom, Fred (512)736-7421
Department: Physics
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells; Solar Systems Design

Physics of Solar Collectors

Course Number: PHYS 356G
Instructor: Clark, Eugene (512)736-7504
Department: Physics
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

Solar and Atmospheric Radiation

Course Number: PHYS 387
Instructor: Clark, Eugene (512)736-7504
Department: Physics
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Distributed Solar Power Systems; Introduction to Solar Energy; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Energy Policy Development; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design

Solar Energy System Components

Course Number: ENGR 362G
Instructor: Treat, C. H. (512)736-7512
Department: Engineering
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy System Design

Course Number: ENGR 395S
Instructor: Treat, C. H. (512)736-7512
Department: Engineering Science
Program: Solar Energy Graduate Program
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY

2700 Bay Area Boulevard
Houston, TX 77058
(713)488-7170 (011711)

Tuition (Full Time):
Resident: $174.00 Non Resident: $604.00

Solar Related Courses

Physics of Nuclear and Solar Energy

Course Number: PHYS 5137
Instructor: Blanford, George (713)488-9286
Department: Science
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Seminar: 15.0
Offered: Evening
Course Fee: Resident: $103.00
Non Resident: $173.00
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photoconversion; Photovoltaics and Solar Cells; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

Houston, TX 77004
(713)749-2214 (003652)

Tuition (Full Time):
Resident: $190.00 Non Resident: $900.00

Solar Related Courses

Energy Conscious and Solar Design in Architecture, Applied

Course Number: 3397
Instructor: Iman, Mehrdad (713)749-1187
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Evening
Course Fee: Resident: $100.00
Non Resident: $176.00
Prerequisites: Yes

Energy Conscious and Solar Design in Architecture, Introduction

Course Number: 3397
Instructor: Iman, Mehrdad (713)749-1187
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $100.00
Non Resident: $176.00
Prerequisites: Yes

Energy Conservation in Architectural Design

Course Number: 6397
Department: Architecture
Student Level: College Graduate

Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
urse Fee: Resident: $100.00
Non Resident: $176.00
Prerequisites: Yes

Solar Architecture
Course Number: 3397
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $100.00
Non Resident: $176.00
Prerequisites: Yes
Topics Covered Extensively: Solar Home Construction

UNIVERSITY OF TEXAS AT ARLINGTON

Arlington, TX 76019
(817)273-2011 (003656)

Solar Technical Training

Solar Energy Heating and Cooling
Degree: Certificate
Department: Construction Research Center
Contact: Darkazalli, Ghazi
(817)273-2561
Program Training: Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/ Installation; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Heating and Cooling
Instructor: Darkazalli
(817)273-2561
Lawley
Haji-Sheikh
Department: Construction Research Center
Program: Solar Energy Heating and Cooling
Student Level: All Levels; Managerial; Professional
Contact Hours: 16.0
Seminar: 12.0
Workshop: 4.0
Offered: Day; Weekend
Course Fee: Resident: $150.00
Non Resident: $150.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Solar and Direct Energy Conversion
Course Number: 6319/4391
Instructor: Darkazalli, Ghazi
(817)273-2561
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
ıration: No. of weeks: 16.0
Hrs. per week: 3.0
ontact Hours: 48.0
Classroom: 48.0
Offered: Evening
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF TEXAS AT AUSTIN

Austin, TX 78712
(512)471-3434 (003658)

Curriculum with Solar Study

Solar-Related Courses
Degree: Master, Bachelor
Architecture related
Department: Architecture
Contact: Arumi-Noe, Francisco
(512)471-4911 EXT.48
Program Training: Architecture-Solar Specialization; Scientific Research and Development in Solar Energy

Program and Curriculum Related Courses

Alternate Energy Systems
Course Number: A 355
Instructor: Garrison, Michael
(512)471-1922
Department: Architecture
Program: Solar-Related Courses
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 72.0
Lab: 18.0
Offered: Day
Topics Covered Extensively: Alternate Energy Sources; Greenhouse Techniques; Solar Cooling; Wind Energy Conversion Systems

Energy Simulation in Architecture
Course Number: 380M
Instructor: Arumi-Noe, Francisco
(512)471-4911 EXT.48
Department: Architecture
Program: Solar-Related Courses
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems

Survey: Environmental Control Systems
Course Number: 340M
Instructor: Arumi-Noe, Francisco
(512)471-4911 EXT.48
Department: Architecture
Program: Solar-Related Courses
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 3.0
Contact Hours: 39.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Passive Solar Systems

Theory of Energy Conscious Design
Course Number: 363
Instructor: Arumi-Noe, Francisco
(512)471-4911 EXT.48
Department: Architecture
Program: Solar-Related Courses
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 13.0
Hrs. per week: 6.0
Contact Hours: 78.0
Classroom: 78.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Passive Solar Systems

UNIVERSITY OF TEXAS AT DALLAS

Richardson, TX 75080
(214)690-2111 (009741)

Curriculum with Solar Study

Solar Energy in Environmental Studies *
Degree: Doctorate, Master
Environmental Sciences
Department: Environmental Sciences
Contact: Moore, Joe E.
(214)690-2970
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Advanced Solar Energy *
Course Number: ENEG 6355
Instructor: Rapp, D.
(214)690-2974
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Solar Marketing/ Economic Analysis; Solar Systems Design; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Heating; Solar Cooling

Energy *
Course Number: ES 5354
Instructor: Rapp, D.
(214)690-2970
Fenyves, E.
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer

Energy Consumption - Resources and Impact *
Course Number: ENSC 5320
Instructor: Fenyves, E.
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy

Solar Energy *
Course Number: ENEG 6347
Instructor: Rapp, D.
(214)690-2974
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0

Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

Solar Energy Laboratory *
Course Number: ENEG 6356
Instructor: Rapp, D. (214)690-2970
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 90.0
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Thermodynamics and Energy Conversion *
Course Number: ENEG 6349
Instructor: Rapp, D. (214)690-2970
Department: Environmental Sciences
Program: Solar Energy in Environmental Studies *
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Solar Energy Policy Development; Solar Systems Design; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Cooling

UNIVERSITY OF TEXAS AT EL PASO

El Paso, TX 79968
(915)747-5000 (003661)

Curriculum with Solar Study

Solar Energy Engineering *
Degree: Master Science
Department: Mechanical Engineering
Contact: Whitacre, John (915)747-5809
Program Training: Engineering-Solar Specialization

Program and Curriculum Related Courses

Applications of Solar Energy *
Course Number: ME 3456
Instructor: Whitacre, John (915)747-5460
Department: Mechanical Engineering
Program: Solar Energy Engineering *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Heat and Energy Transfer; Components-Solar; Solar Systems Design; Solar Heating; Solar Cooling

UNIVERSITY OF TEXAS OF THE PERMIAN BASIN

Odessa, TX 79762
(915)367-2011 (009930)

Tuition (Full Time):

Resident: $50.00

Solar Related Courses

Natural Science I
Course Number: NTSC 301
Instructor: Kurtz, E. B. (915)367-2217
Department: Science and Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy

Natural Science II
Course Number: NTSC 302
Instructor: Kurtz, E. B. (915)367-2217
Department: Science and Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy

WEST TEXAS STATE UNIVERSITY

Canyon, TX 79016
(806)656-0111 (003665)

Tuition (Full Time):

Resident: $190.00

Solar Related Courses

Solar Energy: Residential and Rural Systems
Course Number: 39901-1
Instructor: Nelson, Vaughn (806)656-3904
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 17.0
Hrs. per week: 3.0
Contact Hours: 51.0
Classroom: 51.0
Offered: Day; Evening
Course Fee: Resident, $00.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Wind Energy and Wind Turbines
Course Number: 39902-1
Instructor: Nelson, Vaughn (806)656-3904
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 17.0
Hrs. per week: 3.0
Contact Hours: 51.0
Classroom: 51.0
Offered: Evening
Course Fee: Resident: $66.00
Prerequisites: No
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Wind Energy Conversion Systems

Junior and Community Colleges

CENTRAL TEXAS COLLEGE

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

Curriculum with Solar Study

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

Program and Curriculum Related Courses

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

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

Solar Energy Special Projects *
Course Number: SESY 231
Instructor: Tresler, Clarence (817)523-1236
Department: Industrial Technology
Program: Solar Energy Systems Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 16.0
Lab: 80.0

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

Solar Heating Systems *

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

Solar Technical Training

Solar Energy Systems Specialist *

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

Program and Curriculum Related Courses

Principles of Solar Energy *

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

Solar Heating Systems *

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

GRAYSON COUNTY JUNIOR COLLEGE

Denison, TX 75020
(214)465-6030 (003570)

Solar Related Courses

Energy Resources *

Course Number: SCI 134
Instructor: Roberts, John H. (214)456-6030
Department: Engineering/Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy

LEE COLLEGE

Baytown, TX 77520
(713)427-5611 (003583)

Solar Related Courses

Environmental Science *

Course Number: BIO 413
Instructor: Lehmberg, Verne (713)427-5691
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Heat and Energy Transfer; Solar Systems Design

MIDLAND COLLEGE

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

Tuition (Full Time):

Resident: $49.00 Non Resident: $75.00

Solar Related Courses

Solar Heating Systems

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

NAVARRO COLLEGE

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

Tuition (Full Time):

Resident: $200.00 Non Resident: $300.00

Solar Curriculum

Solar Energy Technician

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

Program and Curriculum Related Courses

Collectors and Energy Storage

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

Economics, Codes, Legal Consumerism

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

Energy Science I

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

Energy Science II

Course Number: SE 1144

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

Introduction to Solar Energy

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

Materials and Material Handling

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

Non-Residential Applications and Future Technology

Course Number: SE 2153
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Storage Systems; Photoconversion; Photovoltaics and Solar Cells; Process Heat; Satellite Solar Power Systems; Wind Energy Conversion Systems

Operational Diagnosis

Course Number: SE 2133
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 32.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Components-Solar; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Sizing, Design and Retrofit

Course Number: SE 2114
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Swimming Pool Heating; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Solar Practicum

Course Number: SE 2163
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 9.0
Contact Hours: 144.0
Job: 144.0
Offered: Day
Course Fee: Resident: $33.00
Non Resident: $58.00
Topics Covered Extensively: Components-Solar; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

Technical Survey of Energy Sources

Course Number: SE 2123
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy Technician
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $50.00
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Distributed Solar Power Systems; Energy Conservation; Ocean Systems; Photovoltaics and Solar Cells; Satellite Solar Power Systems; Wind Energy Conversion Systems

Solar Technical Training

Solar Energy - Installers, Mechanics

Degree: Certificate
Solar Energy Installers, and Mechanics
Department: Career Education
Contact: Kasprzyk, Ernest (214)874-6501
Program Training: Solar Energy Education; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Electricity-Solar Specialization; Plumbing-Solar Specialization; Sheet Metal-Solar Specialization

Program and Curriculum Related Courses

Collectors, Energy Storage, Installation, and Service

Course Number: SE 1044
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $114.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance

Introduction to Solar Heating and Cooling

Course Number: SE 1013
Instructor: Boyd, H. Alan (214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 32.0
Lab: 16.0
Offered: Day; Evening
Course Fee: Resident: $33.00
Non Resident: $91.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Materials and Fabrication I

Course Number: SE 1034
Instructor: Boyd, H. Alan (214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00
Non Resident: $114.00
Topics Covered Extensively: Materials; Plumbing Techniques; Sheet Metal Techniques

Materials and Fabrication II

Course Number: SE 1074

Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00 Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Materials; Plumbing Techniques; Sheet Metal Techniques

Solar Heating and Cooling Systems I

Course Number: SE 1064
Instructor: Boyd, H. Alan (214)874-6501
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00 Non Resident: $114.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Heating and Cooling Systems II

Course Number: SE 1084
Instructor: Boyd, H. Alan (214)874-6501 EXT.200
Department: Career Education
Program: Solar Energy - Installers, Mechanics
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Offered: Day; Evening
Course Fee: Resident: $38.00 Non Resident: $76.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance; Solar Systems Testing/Evaluation

NORTH LAKE COLLEGE

Irving, TX 75062
(214)659-5327 (029066)

Solar Curriculum

Solar Energy Technician *

Degree: Associate
Department: Science; Math; Technology
Contact: Knowles, Jim (214)255-5325
Program Training: Solar Technology- Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Collectors and Storage *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 32.0
Lab: 64.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems

Energy Science I *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Topics Covered Extensively: Heat and Energy Transfer

Energy Science II *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 16.0 Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Lab: 48.0

Future Technology *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0 Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Domestic Hot Water; Solar Swimming Pool Heating; Centralized Solar Power Systems; Distributed Solar Power Systems; Process Heat; Solar Cooling

Introduction to Solar *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 16.0 Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Passive Solar Systems

Materials, Material Handling *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0 Hrs. per week: 5.0
Contact Hours: 80.0
Classroom: 16.0
Lab: 64.0
Topics Covered Extensively: Plumbing Techniques; Sheet Metal Techniques

Operational Diagnosis *

Instructor: Knowles, Jim (214)255-5260
Department: Science, Math, Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0 Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Sizing Design and Retrofit *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 16.0 Hrs. per week: 7.0
Contact Hours: 112.0
Classroom: 48.0
Lab: 64.0
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Solar Codes and Consumerism *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 16.0 Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 32.0
Topics Covered Extensively: Solar Marketing/ Economic Analysis; Solar Energy Policy Development

Solar Practicum *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 5.0
Duration: No. of weeks: 16.0 Hrs. per week: 5.0
Contact Hours: 80.0
Job: 80.0

Technical Survey of Energy Sources *

Instructor: Knowles, Jim (214)255-5260
Department: Science/Math/Technology
Program: Solar Energy Technician *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Energy Conservation; Heat and Energy Transfer; Wind Energy Conversion Systems

ODESSA COLLEGE

P O Box 3752
Odessa, TX 79760
(915)337-5381 (003596)

Tuition (Full Time):

Resident: $65.00 Non Resident: $200.00

Solar Related Courses

Solar Power

Course Number: RAC 2300
Instructor: Witcher, Norman (915)337-5381
Department: Refrigeration and Air Conditioning
Student Level: College Freshman/Sophomore
Academic Credits: 6.0 (Quarter)
Duration: No. of weeks: 16.0 Hrs. per week: 10.0

Contact Hours: 160.0
Classroom: 48.0
Lab: 112.0
Offered: Day; Evening
Course Fee: Resident: $65.00
Non Resident: $200.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

PARIS JUNIOR COLLEGE

2400 Clarksville Street
Paris, TX 75448
(214)785-7661 (003601)

Tuition (Full Time):

Resident: $200.00

Solar Related Courses

Alternate Energy Sources
Course Number: CT 335
Instructor: Davis, Harley
(214)785-7661 EXT.153
Department: Construction Technology
Student Level: College Freshman/Sophomore
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $60.00
Prerequisites: No

RANGER JUNIOR COLLEGE

Ranger, TX 76470
(817)647-3234 (003603)

Tuition (Full Time):

Resident: $176.00 Non Resident: $312.00

Curriculum with Solar Study

Air Conditioning and Refrigeration
Degree: Associate
Air Conditioning and Refrigeration
Department: Vocational
Contact: Stiles, Alton
(817)647-3234
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Fundamentals of Solar Heating and Cooling
Course Number: AR 263
Instructor: Stiles, Alton
(817)629-3234
Department: Vocational - Technical
Program: Air Conditioning and Refrigeration
Student Level: All Levels; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 8.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Evening
Course Fee: Resident: $74.00
Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Materials; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

Solar Thermal Energy Systems
Course Number: AR 264
Instructor: Stiles, Alton
(817)647-3234
Department: Vocational - Technical
Program: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore; Skilled Labor
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 12.0
Hrs. per week: 8.0
Contact Hours: 96.0
Classroom: 24.0
Lab: 72.0
Offered: Evening
Course Fee: Resident: $74.00
Non Resident: $100.00
Prerequisites: Yes
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Heating; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

TYLER JUNIOR COLLEGE

East 5th Street
Tyler, TX 75701
(214)597-4281 (003648)

Tuition (Full Time):

Resident: $56.00 Non Resident: $105.00

Curriculum with Solar Study

Air Conditioning and Refrigeration
Degree: Associate
Department: Air Conditioning and Refrigeration
Contact: Robinson, C. T.
(214)593-2872
Program Training: Solar System Installation-Residential

Program and Curriculum Related Courses

Introduction to Solar Systems
Course Number: AC 113 S
Instructor: Robinson, C. T.
(214)593-2872
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $34.00
Prerequisites: No

Solar System Sizing and Installation
Course Number: AC 223 S
Instructor: Robinson, C. T.
(214)593-2872
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $34.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Materials; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Vocational / Technical Schools

ACTION TRAINING

1015 Eagle
Houston, TX 77002
(713)522-3883 (061084)

Solar Related Courses

Solar Instruction
Instructor: Schnellbacher, John
(713)522-3883
Student Level: Skilled Labor
Contact Hours: 10.0
Offered: Day; Evening

TEXAS STATE TECHNICAL INSTITUTE

Waco Campus
Waco, TX 76705
(817)799-3611 (003634)

Tuition (Full Time):

Resident: $82.00 Non Resident: $262.00

Solar Curriculum

Solar Energy Technology
Degree: Associate
Solar Energy
Department: Solar Energy Technology
Contact: Pierpont, Jerry
(817)799-3611 EXT.368
Program Training: Mechanical/Electrical Contracting-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Air Distribution
Course Number: SOL 206
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes

Topics Covered Extensively: Solar Systems Design

Commercial Load Calculations

Course Number: SOL 316
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Cooling Devices

Course Number: SOL 204
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Cooling

Domestic Hot Water Systems

Course Number: SOL 108
Course Number: (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance

Energy Conservation and Architectural Considerations

Course Number: SOL 302
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Solar Home Construction

Heat Storage

Course Number: SOL 106
Course Number: (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems

Installation, Maintenance, and Troubleshooting

Course Number: SOL 208
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 9.0
Contact Hours: 98.0
Classroom: 36.0
Lab: 62.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $110.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Installation/Maintenance

Introduction to Solar Energy Technology

Course Number: SOL 100
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 1.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 1.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Day
Course Fee: Resident: $7.00
Non Resident: $22.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Residential Load Calculations

Course Number: SOL 104
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 4.0
Contact Hours: 48.0
Classroom: 24.0
Lab: 24.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Solar Calculations

Course Number: SOL 312
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

Solar Controls

Course Number: SOL 306
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $21.00
Non Resident: $66.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design; Solar Systems Installation/Maintenance

Solar Economics

Course Number: SOL 310
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/ Economic Analysis

Solar Radiation and Collectors, 102

Course Number: SOL 102
Instructor: Pierpont, Jerry (817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $28.00
Non Resident: $88.00
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/ Economic Analysis

Solar Radiation and Collectors

Course Number: SOL 202
Instructor: Pierpont, Jerry (817)799-3611, Ext 368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fees: Resident: $28
Non Resident: $88
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Systems Design

System Configurations

Course Number: SOL 304
Instructor: Pierpont, Jerry (817)799-3611, Ext 368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/ Sophomore

Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 5.0
Contact Hours: 60.0
Classroom: 24.0
Lab: 36.0
Offered: Day
Course Fees: Resident: $21
Non Resident: $66
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Hybrid Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating

System Cost Estimating
Course Number: SOL 308
Instructor: Pierpont, Jerry
(817)799-3611, Ext. 368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 6.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day
Course Fees: Resident: $28
Non Resident: $88
Prerequisites: Yes
Topics Covered Extensively: Solar Marketing/Economic Analysis

System Design
Course Number: SOL 314
Instructor: Pierpont, Jerry
(817)799-3611 EXT.368
Department: Solar Energy Technology
Program: Solar Energy Technology
Student Level: College Freshman/Sophomore
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 9.0
Contact Hours: 108.0
Classroom: 36.0
Lab: 72.0
Offered: Day
Course Fee: Resident: $35.00
Non Resident: $110.00
Prerequisites: Yes
Topics Covered Extensively: Solar Systems Design

TEXAS STATE TECHNICAL INSTITUTE AMARILLO

P O Box 11035
Amarillo, TX 79111
(806)335-2316 (009933)

Solar Related Courses

Solar and Wind Energy, Survey
Course Number: DDT-644
Instructor: Carroll, Stephen P.
(806)335-2316 EXT.244
Department: Drafting and Design Technology
Student Level: All Levels
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: No

Solar Systems
Instructor: Latham, Joe W.
(806)335-2316 EXT.266
Department: Construction Technology
Academic Credits: 2.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.3
Contact Hours: 40.0
Classroom: 30.0
Independent Study: 10.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

TEXAS STATE TECHNICAL RIO GRANDE

Harlingen, TX 78550
(512)425-4922 (009225)

Solar Related Courses

Solar Receivers
Course Number: ACT214
Instructor: Vogel, Harold
(512)425-4922
Department: Air Cond. and Refrig. Technology
Student Level: College Freshman/Sophomore
Academic Credits: 2.0
Duration: No. of weeks: 12.0
Hrs. per week: 2.0
Contact Hours: 24.0
Classroom: 12.0
Lab: 12.0
Topics Covered Extensively: Energy Storage Systems; Plumbing Techniques; Components-Solar; Solar Domestic Hot Water; Solar Heating

TRI-COLLEGE CONTINUING EDUCATION

1325 Ambler Street
Abilene TX 79601
(915)673-4946 (090130)

Solar Related Courses

Solar Energy
Instructor: Hodgson, John
(915)698-3096
Department: Continuing Education
Duration: No. of weeks: 7.0
Hrs. per week: 2.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Evening
Course Fee: Resident: $42.00
Non Resident: $42.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Homes
Instructor: Hodgson, John
(915)698-3096
Student Level: All Levels
Duration: No. of weeks: 7.0
Hrs. per week: 2.0
Contact Hours: 14.0
Classroom: 14.0
Offered: Evening
Course Fee: Resident: $42.00
Non Resident: $42.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy

Other Educational Institutions and Organizations

AMARILLO COLLEGE

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

Tuition (Full Time):
Resident: $16.50 Non Resident: $63.25

Solar Related Courses

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

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

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

Utah

Colleges and niversities

UNIVERSITY OF UTAH

Salt Lake City, UT 84112
(801)581-7211 (003675)

Solar Related Courses

Energy Conversion
Course Number: ME 561
Instructor: Boehm, R. F.
(801)581-6441
Department: Engineering, Mechanical and Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

Solar Building Design
Instructor: Boehm, R. F.
(801)581-6441
Department: Engineering, Mechanical and Industrial Engineering
Student Level: College Freshman/ Sophomore; Professional
Duration: No. of weeks: 1.0
Hrs. per week: 10.0
Contact Hours: 10.0
Classroom: 10.0
Offered: Weekend
Prerequisites: No
Topics Covered Extensively: Components-Solar; Solar Domestic Hot Water; Solar Systems Design

Thermal Applications of Solar Energy
Course Number: ME 563
Instructor: Boehm, R. F.
(801)581-6441
Department: Engineering, Mechanical and Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 9.0
Hrs. per week: 4.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer

Thermal Systems Design
Course Number: ME 562
Instructor: Boehm, R. F.
(801)581-6441
Department: Engineering, Mechanical and Industrial Engineering
Student Level: College Junior/Senior
Academic Credits: 4.0 (Quarter)
Duration: No. of weeks: 9.0
Hrs. per week: 4.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources

AH STATE UNIVERSITY

Logan, UT 84322
(801)752-4100 (003677)

Solar Related Courses

Biometeorology *
Course Number: 709
Instructor: Dirmhirn
(801)752-4100 EXT.7187
Hanks
Wooldrige
Department: Agriculture, Soil Science and Biometeorology
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Biometeorology Instruments *
Course Number: 652
Instructor: Dirmhirn
(801)752-4100 EXT.7187
Department: Agriculture, Soil Science and Biometeorology
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 9.0
Lab: 27.0
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Environmental Field Experimentals *
Course Number: 693
Instructor: Dirmhirn
(801)752-4100 EXT.7187
Department: Agriculture, Soil Science and Biometeorology
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 9.0
Field Trips: 27.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Environmental Remote Sensing *
Course Number: 707
Instructor: Dirmhirn, Inge
(801)752-4100 EXT.7187
Baker, Kay
Department: Soil Science and Biomet, Agriculture
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Instrumentation Lab *
Course Number: 752
Instructor: Dirmhirn
(801)752-4100 EXT.7187
Department: Agriculture, Soil Science and Biometeorology
Student Level: College Graduate
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 9.0
Lab: 27.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells

Solar Energy Systems
Course Number: ME 546
Instructor: Phillips, W. F.
(801)752-4100
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $59.00
Non Resident: $145.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Process Heat; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation

Junior and Community Colleges

DIXIE COLLEGE

Saint George, UT 84770
(801)673-4811 (003671)

Solar Technical Training

Solar Technology *
Department: Business and Trades
Contact: Hacking, John
(801)673-4811

Program and Curriculum Related Courses

Introduction to Applied Solar Energy *
Course Number: ST 150
Instructor: Tait, Don
(801)673-4811
Department: Engineering Technology
Program: Solar Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 4.0
Duration: No. of weeks: 11.0
Hrs. per week: 5.0
Contact Hours: 55.0
Classroom: 55.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Materials; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Energy - Home Use Applications *
Course Number: ST 123
Instructor: Tait, Don
(801)673-4811
Department: Engineering Technology
Program: Solar Technology *
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0
Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 16.0
Lab: 15.0

Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Plumbing Techniques; Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Vocational / Technical Schools

BRIDGERLAND AREA VOCATIONAL CENTER

UMC 10, Utah State University
Logan, UT 84322
(801)753-0682 (061100)

Solar Technical Training

Building Construction

Degree: Certificate
Vocational Building Construction
Department: Building Construction
Contact: Murry, Arlyn P.
(801)753-0682

Program Training: Architecture-Solar Specialization; General Contracting-Specialization in Solar Design/Installation; Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Electricity-Solar Specialization; Plumbing-Solar Specialization; Do-It-Yourself/Home Installation

Vermont

Colleges and Universities

CASTLETON STATE COLLEGE

Castleton, VT 05735
(802)468-5611 (003683)

Solar Related Courses

*Conservation **

Course Number: BIO 208
Instructor: Freeman, J. V.
(302)468-5611 EXT.247
Department: Biology
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 45.0
Lab: 30.0
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation

MIDDLEBURY COLLEGE

Middlebury, VT 05753
(802)388-4948 (003691)

Curriculum with Solar Study

Senior Work in Solar Energy

Degree: Bachelor
Department: Physics
Contact: Wolfson, Richard
(802)388-7556

Program Training: Scientific Research and Development in Solar Energy; Solar Technology-Instrumentation, Controls, Design, Maintenance

SCHOOL FOR INTERNATIONAL TRAINING

Kipling Road
Brattleboro, VT 05301
(802)257-7751 (008860)

Tuition (Full Time):

Resident: $3,500.00 Non Resident: $3,500.00

Solar Related Courses

Environmental Studies

Instructor: Bennett, Shaun
(802)257-7751 EXT.237
Department: World Issues Program
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0
Hrs. per week: 20.0
Contact Hours: 60.0
Classroom: 20.0
Independent Study: 15.0
Field Trips: 25.0
Offered: Day; Evening
Prerequisites: No

Junior and Community Colleges

COMMUNITY COLLEGE OF VERMONT

P O Box 81
Montpelier, VT 05602
(802)828-2401 (011167)

Tuition (Full Time):

Resident: $200.00 Non Resident: $400.00

Solar Related Courses

Alternative Energy

Student Level: All Levels
Duration: No. of weeks: 3.0
Hrs. per week: 12.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Greenhouse Techniques; Heat and Energy Transfer; Hybrid Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Heating; Solar Home Construction; Wind Energy Conversion Systems

Community Energy Planning

Instructor: Fischer, Howard
(802)828-2801
Student Level: All Levels
Duration: No. of weeks: 15.0
Hrs. per week: 2.5
Contact Hours: 37.5
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Solar Law/Legislation; Solar Marketing/Economic Analysis

Independent Studies in Water Power and Solar House Construction

Instructor: Fischer, Howard
(802)828-2801
Student Level: All Levels
Contact Hours: 37.5
Offered: Day; Evening
Course Fee: Resident: $70.00
Non Resident: $140.00
Prerequisites: No
Topics Covered Extensively: Solar Home Construction, Wind Energy Conversion Systems

Practical Applications of Solar Energy Today

Instructor: Sybo, Jill
(802)254-9781
Student Level: All Levels
Duration: No. of weeks: 11.0
Hrs. per week: 3.5
Contact Hours: 37.5
Classroom: 27.5
Lab: 10.0
Offered: Evening; Weekend
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Solar Systems Installation/Maintenance

Solar Greenhouse Design and Management
Instructor: Spiro, Jill
(802)254-9781
Student Level: All Levels
Duration: No. of weeks: 8.0
Hrs. per week: 3.5
ntact Hours: 28.0
Classroom: 20.0
Lab: 5.0
Offered: Evening
Course Fee: Resident: $40.00
Non Resident: $80.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Greenhouse Techniques; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Marketing/Economic Analysis; Solar Systems Installation/ Maintenance

Other Educational Institutions and Organizations

TAO CENTER OF SELF-RELIANCE INCORPORATED

42 Elm Street
Rutland, VT 05701
(802)773-2042 (091010)

Tuition (Full Time):
Resident: $325.00 Non Resident: $325.00

Solar Technical Training

TAO Solar Building School for Owner - Builders
Degree: Certificate
Passive Solar Home Construction and Design
Department: Education Outreach
Contact: Chipka, Stewart
(802)773-2042
Program Training: Architecture-Solar Specialization; Solar Energy Education; Engineering-Solar Specialization; General Contracting-Specialization in Solar Design/ Installation; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

TAO Solar Building School for Owner-Builders
Program: TAO Solar Building School for Owner - Builders
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Duration: No. of weeks: 4.0
Hrs. per week: 40.0
Contact Hours: 160.0
Classroom: 40.0
Independent Study: 60.0
Job: 60.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $325.00
Non Resident: $325.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Passive Solar Systems; Solar Heating; Solar Home Construction

Virginia

Colleges and Universities

EASTERN MENNONITE COLLEGE

1200 Park Road
Harrisonburg, VA 22801
(703)433-2771 (003708)

Solar Related Courses

Solar Energy Seminar
Course Number: CE 114
Instructor: Lehman, Robert C.
(703)433-2771
Department: Physics, Civil Engineering
Student Level: All Levels; Layperson
C.E.U.'s: 1.0
Contact Hours: 15.0
Seminar: 15.0
Offered: Weekend
Course Fee: Resident: $50.00
Non Resident: $50.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Passive Solar Systems

FERRUM COLLEGE

Ferrum, VA 24088
(703)365-2121 (003711)

Solar Related Courses

Energy
Course Number: 414
Instructor: Bier, C. J.
(703)365-2121 EXT.243
Department: Environmental Studies
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 5.0
Contact Hours: 75.0
Classroom: 45.0
Lab: 30.0
Offered: Evening
Course Fee: Resident: $160.00

GEORGE MASON UNIVERSITY

4400 University Drive
Fairfax, VA 22030
(703)323-2000 (003749)

Solar Related Courses

Introduction to Solar Energy
Course Number: PHYS 590
Instructor: Ceperley, Peter
(703)323-2302
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 8.0
Hrs. per week: 5.0
Contact Hours: 40.0
Classroom: 40.0
Field Trips: 4.0
Offered: Evening
Course Fee: Resident: $100.50
Non Resident: $190.50
Prerequisites: No

Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/ Economic Analysis

LYNCHBURG COLLEGE

Lynchburg, VA 24501
(804)845-9071 (003720)

Solar Related Courses

Solar Energy *

Course Number: 538
Instructor: Sigler, J. A. (804)845-9171
Department: Physics
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Topics Covered Extensively: Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Materials; Photovoltaics and Solar Cells; Components-Solar; Solar Systems Design; Centralized Solar Power Systems; Distributed Solar Power Systems; Solar Heating

OLD DOMINION UNIVERSITY

Hampton Boulevard
Norfolk, VA 23508
(804)489-6000 (003728)

Tuition (Full Time):

Resident: $402.00 Non Resident: $804.00

Curriculum with Solar Study

Mechanical Engineering Technology

Degree: Bachelor
Department: Thermal Power Systems Engineering; Mechanical Engineering Technology
Contact: Crossman, Gary R. (804)489-6574
Program Training: Engineering-Solar Specialization; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design, Maintenance; Electricity Solar Specialization) Do It Yourself/Home Installation

Program and Curriculum Related Courses

Air Conditioning Systems

Course Number: MET 470
Instructor: Ferrari, R. E. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $96.00
Non Resident: $192.00
Prerequisites: Yes

Energy Conversion, 480

Course Number: MET 480
Instructor: Kovner, E. A. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $96.00
Non Resident: $192.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Introduction to Solar Energy; Photovoltaics and Solar Cells

Power and Energy Laboratory

Course Number: MET 465/485
Instructor: Crossman, G. R. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 28.0
Hrs. per week: 3.0
Contact Hours: 84.0
Classroom: 84.0
Offered: Day
Course Fee: Resident: $72.00
Non Resident: $144.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Solar Systems Testing/Evaluation

Refrigeration Systems

Course Number: MET 460
Instructor: Kovner, E. A. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $96.00
Non Resident: $192.00

Solar Energy Systems

Course Number: MET 490
Instructor: Crossman, G. R. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $96.00
Non Resident: $192.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Thermal Power Systems

Course Number: MET 450
Instructor: Kovner, E. A. (804)489-6574
Department: Engineering, Mechanical Engineering Technology
Program: Mechanical Engineering Technology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0
Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day; Evening
Course Fee: Resident: $96.00
Non Resident: $192.00
Prerequisites: Yes

Curriculum with Solar Study

Power - Energy Conversion Option

Degree: Doctorate, Bachelor, Master Mechanical Engineering
Department: Mechanical Engineering and Mechanics
Contact: Goglia, G. L. (804)489-6485
Program Training: Solar Energy Education; Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Energy Conversion, 513

Course Number: ENME 4/513
Instructor: Roberts, A. S. (804)489-6485
Department: Mechanical Engineering and Mechanics
Program: Power - Energy Conversion Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 39.0
Lab: 6.0
Offered: Day; Evening
Course Fee: Resident: $102.00
Non Resident: $177.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Hybrid Systems; Materials; Photovoltaics and Solar Cells

Environmental Control

Course Number: ENME 4/512
Instructor: Roberts, A. S. (804)489-6485
Department: Mechanical Engineering and Mechanics
Program: Power - Energy Conversion Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 39.0
Lab: 6.0
Offered: Day; Evening
Course Fee: Resident: $102.00
Non Resident: $177.00
Prerequisites: Yes
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer

Solar Power Engineering

Course Number: ENME 4/516
Instructor: Roberts, A. Sidney (804)489-6485
Department: Mechanical Engineering and Mechanics
Program: Power - Energy Conversion Option
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day; Evening
Course Fee: Resident: $102.00
Non Resident: $177.00

Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

nergy Systems
ɔurse Number: 243
Instructor: Deal, Walter F. (804)489-6461
Department: Vocational and Industrial Arts Ed.
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day; Evening
Course Fee: Resident: $102.00; Non Resident: $177.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Energy Systems III
Course Number: VIAE 243
Instructor: Deal, W. F. (804)489-6461
Department: Vocational and Industrial Arts Ed.
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 36.0
Independent Study: 18.0
Lab: 36.0
Offered: Day
Course Fee: Resident: $90.00; Non Resident: $165.00
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating

Topics: Solar Energy
Course Number: VIAE 495/595
Instructor: Deal, W. F. (804)489-6461
Department: Vocational and Industrial Arts Ed.
Student Level: College Graduate; Managerial; Professional; Layperson
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 20.0
Independent Study: 10.0
Field Trips: 12.0
Offered: Evening
Course Fee: Resident: $90.00; Non Resident: $165.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

RANDOLPH-MACON COLLEGE

Ashland, VA 23005
(804)798-8372 (003733)

ɔolar Related Courses

ɔolar Energy: Applications to Buildings
Course Number: Colloquy 063
Instructor: Hesse, William P. (804)798-8372 EXT.209
Department: Physics
Student Level: All Levels
Academic Credits: 4.0 (Four-One-Four)
Duration: No. of weeks: 4.0; Hrs. per week: 15.0
Contact Hours: 60.0
Classroom: 40.0
Workshop: 20.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/Economic Analysis; Solar Systems Design; Components-Solar

SWEET BRIAR COLLEGE

Sweet Briar, VA 24595
(804)381-5521 (003742)

Tuition (Full Time):

Resident: $6,400.00

Solar Related Courses

Environmental Physics
Course Number: PHYS 8
Instructor: Lenz, George (804)381-5609
Department: Physics
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Bioconversion; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Materials; Passive Solar Systems; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

THOMAS NELSON COMMUNITY COLLEGE

P O Box 9407
Hampton, VA 23670
(804)826-4800 (006871)

Solar Related Courses

Solar Energy
Instructor: Pegg, Robert (804)827-3691
Department: Continuing Education
Student Level: All Levels; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 3.0; Hrs. per week: 10.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Storage Systems; Introduction to Solar Energy; Solar Systems Design; Solar Systems Installation/Maintenance

UNIVERSITY OF VIRGINIA MAIN CAMPUS

Charlottesville, VA 22901
(804)924-0311 (006968)

Curriculum with Solar Study

Chemical Engineering with Solar Energy Research
Degree: Doctorate, Master
Energy Studies
Department: Chemical Engineering
Contact: Lilleleht, L. U. (804)924-3428
Program Training: Engineering-Solar Specialization

Curriculum with Solar Study

Mechanical Engineering with Solar Energy Research
Degree: Doctorate, Master
Energy Systems
Department: Mechanical Engineering
Contact: Beard, J. Taylor (804)924-7421
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Radiation Heat Transfer
Course Number: ME 713
Instructor: Beard, J. T. (804)924-7421
Department: Mechanical Engineering
Program: Mechanical Engineering with Solar Energy Research
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $285.00
Prerequisites: Yes
Topics Covered Extensively: Heat and Energy Transfer; Photovoltaics and Solar Cells

Solar Energy Conversion and Application
Course Number: ME 520
Instructor: Iachetta, F. A. (804)924-7421
Department: Mechanical and Aerospace Engineering
Program: Mechanical Engineering with Solar Energy Research
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $285.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Systems Design

Special Topics in Energy Conservation
Course Number: ME 527
Instructor: Beard, J. T. (804)924-7421
Department: Mechanical Engineering
Program: Mechanical Engineering with Solar Energy Research
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $100.00; Non Resident: $285.00
Prerequisites: Yes

Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

VIRGINIA COMMONWEALTH UNIVERSITY

901 West Franklin Street
Richmond, VA 23284
(804)770-6472 (003735)

Tuition (Full Time):
Resident: $365.00 Non Resident: $730.00

Solar Related Courses

Energy and the Way We Live
Course Number: SSC 205
Instructor: Honnold, J. A. (804)257-1028; Nelson, L. D.
Department: Social Sciences
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Independent Study: 30.0
Offered: Evening
Course Fee: Resident: $96.00; Non Resident: $192.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

General Energy Education
Course Number: EDU 651
Instructor: Honnold, J. A. (804)257-1028; Nelson, L.D.
Department: Sociology
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 2.0; Hrs. per week: 22.0
Contact Hours: 45.0
Classroom: 15.0
Seminar: 20.0
Workshop: 10.0
Offered: Day
Course Fee: Resident: $96.00; Non Resident: $192.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

Natural Resources and Society
Course Number: SOC 355
Instructor: Honnold, J. A. (804)257-1028; Nelson, L. D..
Department: Sociology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $96.00; Non Resident: $192.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Solar Energy Policy Development

VIRGINIA MILITARY INSTITUTE

Lexington, VA 24450
(703)463-6311 (003753)

Tuition (Full Time):
Resident: $725.00

Solar Related Courses

Advanced Thermodynamics
Course Number: ME 408
Instructor: Trandel, R. S. (703)463-6308
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 28.0
Lab: 28.0
Offered: Day
Prerequisites: Yes

VIRGINIA POLY INSTITUTE AND STATE UNIVERSITY

Blacksburg, VA 24061
(703)951-6000 (003754)

Solar Related Courses

Building Systems Technology *
Instructor: Schubert, B. P. (703)961-5512
Department: Architecture and Urban Studies
Student Level: College Graduate
Academic Credits: 9.0
Duration: No. of weeks: 27.0; Hrs. per week: 3.0
Contact Hours: 81.0
Classroom: 54.0
Lab: 27.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Marketing/Economic Analysis; Introduction to Solar Energy; Passive Solar Systems; Components Color; Color Systems Design; Solar Domestic Hot Water; Solar Heating

Junior and Community Colleges

BLUE RIDGE COMMUNITY COLLEGE

Weyers Cave, VA 24486
(703)234-2461 (000810)

Solar Related Courses

Introduction to Solar Technology *
Course Number: ENVR 154
Instructor: Chandler, Rupert P. (703)234-2461
Department: Engineering and Technologies
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Topics Covered Extensively: Introduction to Solar Energy

DANVILLE COMMUNITY COLLEGE

Bonner Avenue
Danville, VA 24541
(804)797-3553 (003758)

Tuition (Full Time):
Resident: $100.00 Non Resident: $300.00

Solar Related Courses

A Survey of Alternate Energy
Course Number: PH 103
Instructor: Solomon, Michael (703)797-3553
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 2.0
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 25.0
Lab: 11.0
Offered: Day; Evening
Course Fee: Resident: $36.00; Non Resident: $100.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water

JOHN TYLER COMMUNITY COLLEGE

13101 Jefferson Davis Highway
Chester, VA 23831
(804)748-6481 (004004)

Tuition (Full Time):
Resident: $100.00 Non Resident: $335.00

Solar Related Courses

Introduction to Solar Energy
Course Number: ENVR 154
Instructor: Moore, John B. (804)748-6481
Department: Engineering Technologies
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $26.00; Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

LORD FAIRFAX COMMUNITY COLLEGE

Middletown, VA 22645
(703)869-1120 (008659)

Solar Related Courses

Alternative Home Systems *
Course Number: ENV 156
Instructor: Nesbitt, Patti
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0

Buying Solar *
Instructor: Lillis, J. W. (703)869-1120
Department: Continuing Education
Student Level: All Levels

Duration: No. of weeks: 1.0
Hrs. per week: 6.0
Contact Hours: 6.0
Classroom: 6.0

NORTHERN VIRGINIA COMMUNITY COLLEGE

8333 Little River Turnpike
Annandale, VA 22003
(703)323-3000 (003727)

Tuition (Full Time):

Resident: $100.00 Non Resident: $335.00

Curriculum with Solar Study

Supervised Study - Solar Energy

Air Conditioning and Refrig. With Solar Option
Department: Environmental and Natural Science
Contact: Barbaro, R. D.
Nasseri, K.
(703)670-2191 EXT.250

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

Program and Curriculum Related Courses

Supervised Study - Solar Energy I

Course Number: AIRC 298
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Supervised Study - Solar Energy II

Course Number: AIRC 299
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Supervised Study - Solar Energy III

Course Number: AIRC 198
Instructor: Nasseri, K.
(703)670-2191 EXT.250
Department: Environmental and Natural Science
Program: Supervised Study - Solar Energy
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 10.0
Independent Study: 10.0
Job: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy; Photovoltaics and Solar Cells; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Systems Installation/ Maintenance

Solar Related Courses

Building Mechanical Equipment

Course Number: ARCH 237
Instructor: Laws, Thomas F.
(703)323-4230
Department: Visual Arts and Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Plumbing Techniques; Process Heat

SOUTHSIDE VIRGINIA COMMUNITY COLLEGE

Alberta, VA 23868
(804)949-7111 (008661)

Tuition (Full Time):

Resident: $120.00

Curriculum with Solar Study

Air Conditioning, Heating and Refrigeration

Degree: Certificate
Air Conditoning, Heating and Refrigeration
Department: Technology
Contact: Fuqua, Norman
(804)949-7111 EXT.134

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

Program and Curriculum Related Courses

Solar Heating Concepts

Course Number: AIRC 198
Instructor: Fuqua, Norm
(804)949-7111 EXT.134
Department: Technology
Program: Air Conditioning, Heating and Refrigeration
Student Level: All Levels
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Seminar: 20.0
Lab: 20.0
Offered: Evening
Course Fee: Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

VIRGINIA WESTERN COMMUNITY COLLEGE

3095 Colonial Avenue SW
Roanoke, VA 24015
(703)982-7249 (003760)

Solar Related Courses

Solar Energy Systems Design

Course Number: ARCH 167
Instructor: Arminio, Robert
(703)982-7249
Department: Architectural Technology
Student Level: College Freshman/ Sophomore; Professional
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Offered: Evening
Course Fee: Resident: $25.00
Non Resident: $84.00
Topics Covered Extensively: Centralized Solar Power Systems; Components-Solar; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Washington

Colleges and Universities

SEATTLE PACIFIC UNIVERSITY

3307 3rd Avenue West
Seattle, WA 98119
(206)281-2000 (003788)

Tuition (Full Time):
Resident: $930.00 Non Resident: $930.00

Solar Related Courses

Senior Project Physics
Course Number: 4911
Instructor: Dunn, Sam (206)281-2140
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 10.0
Independent Study: 40.0
Offered: Day
Course Fee: Resident: $440.00
Non Resident: $440.00
Topics Covered Extensively: Controlized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Photoconversion; Photovoltaics and Solar Cells

UNIVERSITY OF WASHINGTON

Seattle, WA 98195 (003798)

Curriculum with Solar Study

Energy Engineering *
Degree: Doctorate, Masters, Bachelors Engineering
Department: Engineering, Aerospace and Energy Research
Contact: Decher, R. (206)543-6067
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Solar Related Courses

Architectural Studies Options *
Course Number: 502-5
Instructor: Heerwagen (206)543-4180
Varey
Department: Architecture
Student Level: College Graduate
Academic Credits: 6.0
Duration: No. of weeks: 9.0
Hrs. per week: 12.0
Contact Hours: 108.0
Lab: 108.0

Design and Use of Mechanical Systems (HVAC) in Buildings *
Course Number: 432
Instructor: Heerwagen, Dean R. (206)543-2132
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes

Energy Conscious Design Studio *
Course Number: 502/498
Instructor: Millet, Marietta (206)543-4736
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 6.0
Duration: No. of weeks: 11.0
Hrs. per week: 12.0
Contact Hours: 132.0
Lab: 132.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Energy Storage Systems

Energy Conservation - Solar Energy Applications in Buildings *
Course Number: 498
Instructor: LaVigne, A. B. (206)543-6005 EXT.7679
Department: Architecture and Urban Planning
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 9.0
Hrs. per week: 4.4
Contact Hours: 40.0
Classroom: 40.0
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

Energy Conservation Opportunities in Building Design and Use *
Course Number: 530
Instructor: Heerwagen, Dean R. (206)543-2132
Department: Architecture
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Prerequisites: Yes

Studies in the Science of the Built Environment *
Course Number: 531/498
Instructor: Millet, Marietta S. (206)543-4736
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 40.0
Field Trips: 10.0
Prerequisites: No
Topics Covered Extensively: Energy Conservation

The Promise of Solar Energy
Course Number: SMT 583
Instructor: Hyman, Barry (206)543-9038
Department: Social Management of Technology
Student Level: College Graduate
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day
Course Fee: Resident: $109.00
Non Resident: $392.00
Prerequisites: Yes
Topics Covered Extensively: Solar Energy Policy Development; Solar Law/Legislation

Thermal Performance of Buildings *
Course Number: 431
Instructor: Heerwagen, Dean R. (206)543-2132
Department: Architecture
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 10.0
Hrs. per week: 4.0
Contact Hours: 40.0
Classroom: 40.0
Prerequisites: Yes

WALLA WALLA COLLEGE

College Place, WA 99324
9509)527-2615 (003799)

Tuition (Full Time):
Resident: $1,100.00 Non Resident: $1,100.00

Solar Related Courses

Energy Conversion II
Course Number: ENGR 432
Instructor: Masden, Glenn W. (509)527-2767
Department: Engineering
Student Level: College Junior/Senior
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0
Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 40.0
Lab: 10.0
Offered: Day
Course Fee: Resident: $450.00
Non Resident: $450.00
Prerequisites: Yes
Topics Covered Extensively: Photovoltaics and Solar Cells

WASHINGTON STATE UNIVERSITY

Pullman, WA 99164
(509)335-3564 (003800)

Tuition (Full Time):
Resident: $343.00 Non Resident: $1,197.00

Solar Related Courses

Thermal Systems
Course Number: ME 435
Instructor: Plumb, O. A. (509)335-3226
Englund, J. S.
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $102.00
Non Resident: $102.00
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy

Junior and Community Colleges

FORT STEILACOOM COMMUNITY COLLEGE

9401 Farwest Drive
Tacoma, WA 98403
(206)552-3948 (005000)

Tuition (Full Time):
Resident: $101.00 Non Resident: $395.00

Solar Related Courses

Energy and Man
ɔurse Number: PSCI 125
ɪtructor: Harding, Karen (206)964-6674
Department: Physical Science
Student Level: All Levels
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Offered: Day; Evening
Course Fee: Resident: $50.50; Non Resident: $50.50
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy

Environmental Science
Course Number: PSCI 120
Instructor: Harding, Karen (206)964-6674
Department: Physical Science
Student Level: All Levels
Academic Credits: 5.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 5.0
Contact Hours: 50.0
Classroom: 50.0
Offered: Day
Course Fee: Resident: $50.50; Non Resident: $50.50
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources

NORTH SEATTLE COMMUNITY COLLEGE

9600 College Way North
Seattle, WA 98103
(206)634-4444 (009704)

Curriculum with Solar Study

Heating, Air Conditioning and Refrigeration Technology
Degree: Associate
Heating, Air Conditioning and Refrigeration Technology
Department: Engineering Related Technology
Contact: Musgrove, William R. (206)634-4700
Program Training: Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Solar Technology
Course Number: ECT 207
Instructor: Stepnich, Ivan C. (206)634-4700
Department: Engineering Technologies
Program: Heating, Air Conditioning and Refrigeration Technology
Student Level: All Levels
Duration: No. of weeks: 12.0; Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 18.0
Lab: 18.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; ntroduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation

OLYMPIA TECHNICAL COMMUNITY COLLEGE

2011 Mottman Road S.W.
Olympia, WA 98502
(206)753-3000 (005372)

Solar Related Courses

Solar Energy for Space Heating and Hot Water
Course Number: CONS 198
Instructor: Oatman, Martin (206)753-3005
Department: Continuing Education
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $28.00; Non Resident: $28.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Materials; Plumbing Techniques; Solar Cooling; Solar Domestic Hot Water; Solar Heating

PENINSULA COLLEGE

1502 East Lauridsen Boulevard
Port Angeles, WA 98362
(206)452-9277 (003788)

Tuition (Full Time):
Resident: $103.00 Non Resident: $397.00

Solar Related Courses

Residential Solar Heating Systems
Course Number: T.E. 275
Instructor: Van Deusen, George (206)452-9277
Department: Engineering Technology
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Evening
Course Fee: Resident: $31.00; Non Resident: $119.00
Prerequisites: No

SEATTLE CENTRAL COMMUNITY COLLEGE

1701 Broadway
Seattle, WA 98122
(206)587-4100 (009705)

Tuition (Full Time):
Resident: $96.00 Non Resident: $390.00

Solar Related Courses

Introduction to Solar Heating
Course Number: TDR 219
Instructor: Schneider, Robert (206)587-6922
Department: Trade and Industrial Curricula
Student Level: All Levels; Managerial; Skilled Labor; Professional; Layperson
Academic Credits: 3.0 (Quarter)
C.E.U.'s: 3.0
Duration: No. of weeks: 11.0; Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Evening
Course Fee: Resident: $29.00; Non Resident: $29.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Law/Legislation

SPOKANE FALLS COMMUNITY COLLEGE

West 3410 Fort George Wright Drive
Spokane, WA 99204
(509)456-2810 (009544)

Tuition (Full Time):
Resident: $14.00

Solar Related Courses

How to Build Your Own Solar Water Heater
Instructor: Kingrey, William (509)328-2771
Department: Evening
Student Level: Layperson
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 10.0
Seminar: 20.0
Offered: Evening
Course Fee: Resident: $14.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Distributed Solar Power Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

TACOMA COMMUNITY COLLEGE

5900 South 12th Street
Tacoma, WA 98465
(206)756-5100 (003798)

Tuition (Full Time):
Resident: $30.00

Solar Related Courses

Energy: Past, Present, and Future
Course Number: ENGR 120
Instructor: Clark, Russell E. (206)756-5060
Department: Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 10.0; Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 30.0
Offered: Day; Evening
Course Fee: Resident: $35.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Heat and Energy Transfer; Process Heat; Solar Heating; Thermochemical Conversion

SEATTLE OPPORTUNITIES INDUSTRIALIZATION CENTER INCORPORATED

315 22nd Avenue South
Seattle, WA 98144
(206)223-2814 (061116)

Tuition (Full Time):
Resident: $2,600.00

Solar Technical Training

Solar Installer's Training
Degree: Certificate
Carpentry and Plumbing/ Pipefitting
Department: Vocational Programs
Program Training: Solar System Installation-Residential; Plumbing-Solar Specialization

Program and Curriculum Related Courses

Solar Installation Training
Department: Vocational Programs
Program: Solar Installer's Training
Duration: No. of weeks: 8.0
Hrs. per week: 32.0
Contact Hours: 256.0
Classroom: 86.0
Job: 32.0
Lab: 138.0
Offered: Day
Course Fee: Resident: $2,600.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Distributed Solar Power Systems; Energy Conservation; Greenhouse Techniques; Hybrid Systems; Materials; Passive Solar Systems; Plumbing Techniques; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Swimming Pool Heating; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation

West Virginia

Colleges and Universities

WEST VIRGINIA INSTITUTE OF TECHNOLOGY

Montgomery, WV 25136
(304)442-3071 (003825)

Tuition (Full Time):
Resident: $370.00 Non Resident: $1,310.00

Solar Related Courses

Fundamentals of Solar Energy
Instructor: Nelson, Leonard C. (304)442-3148
Department: Mechanical Engineering
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $30.00
Non Resident: $148.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction

WEST VIRGINIA UNIVERSITY

Morgantown, WV 26506
(304)293-0111 (003827)

Tuition (Full Time):
Resident: $425.00 Non Resident: $1,455.00

Solar Related Courses

Aerospace Problems, Solar
Course Number: AE 280 B
Instructor: Loth, John (304)293-5339
Department: Engineering Aerospace
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $30.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photoconversion; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Appropriate Technology
Course Number: TE 390
Instructor: DeVore, Paul W. (304)293-3803
Department: Technology Education
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 15.0
Seminar: 10.0
Independent Study: 15.0
Offered: Evening
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation

Solar and Wind Energy Utilization
Course Number: AE 280 B
Instructor: Loth, John (304)293-5339
Department: Aerospace Engineering
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Course Fee: Resident: $30.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Photoconversion; Photovoltaics and Solar Cells; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Junior and Community Colleges

PARKERSBURG COMMUNITY COLLEGE

Route 5
P O Box 167A
Parkersburg, WV 26101
(304)424-8000 (003828)
Non Resident: $13.00

Solar Technical Training

Air Conditioning and Refrigeration
Degree: Certificate
Applied Sciences
Department: Air Conditioning and Refrigeration
Contact: Schmidt, L. G. (304)424-8251
Program Training: Solar Energy Education; Solar System Installation-Residential; Mechanical/Electrical Contracting-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization; Solar Technology-Instrumentation, Controls, Design, Maintenance

Program and Curriculum Related Courses

Solar Heat
Course Number: ACR 299
Instructor: Schmidt, L. G. (304)424-8251
Department: Air Conditioning and Refrigeration
Program: Air Conditioning and Refrigeration
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 108.0
Lab: 108.0
Offered: Day; Evening
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

POTOMAC STATE COLLEGE

Keyser, WV 26726
(304)788-3011 (003829)

Tuition (Full Time):
Resident: $187.00

Solar Related Courses

Engineering Design II
Course Number: II
Instructor: Mon, Gordon (304)788-3011 EXT.74
Department: Engineering
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0 Hrs. per week: 6.0
Contact Hours: 90.0
Classroom: 45.0
Lab: 45.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Components-Solar; Energy Conservation; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design; Wind Energy Conversion Systems

Wisconsin

Colleges and Universities

MARQUETTE UNIVERSITY

1515 West Wisconsin Avenue
Milwaukee, WI 53233
(414)224-7700 (003863)

Curriculum with Solar Study

Energy Engineering
Degree: Bachelor
Department: Electrical Engineering
Contact: Jaskolski, S. V. (414)224-6820
Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Engineering I
Course Number: 128
Instructor: Jaskolski, S. V. (414)224-6820
Department: Electrical Engineering
Program: Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Solar Energy Engineering II
Course Number: 129
Instructor: Jaskolski, S. V. (414)224-6820
Department: Electrical Engineering
Program: Energy Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Process Heat; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Wind Energy Conversion Systems

Solar Related Courses

Solar Energy - Source and Utilization
Course Number: ELEN 128
Instructor: Jaskolski, S. V. (414)224-6820
Department: Electrical Engineering
Student Level: All Levels; Managerial; Professional
Academic Credits: 3.0 (Semester)
C.E.U.'s: 1.0
Duration: No. of weeks: 14.0 Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Day
Course Fee: Resident: $300.00 Non Resident: $300.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Satellite Solar Power Systems

MILWAUKEE SCHOOL OF ENGINEERING

P O Box 644
Milwaukee, WI 53201
(414)272-8720 (003868)

Tuition (Full Time):
Resident: $1,035.00 Non Resident: $1,035.00

Solar Related Courses

Solar Energy
Course Number: PH 430
Instructor: Mallmann, A. James (414)272-8720
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Quarter)
Duration: No. of weeks: 11.0 Hrs. per week: 3.0
Contact Hours: 33.0
Classroom: 33.0
Offered: Day; Evening
Course Fee: Resident: $207.00 Non Resident: $207.00
Prerequisites: Yes
Topics Covered Extensively: Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

RIPON COLLEGE

Ripon, WI 54971
(414)748-8118 (003884)

Solar Related Courses

Topics in Physics and Energy Resources
Course Number: 100
Instructor: Broshar, Wayne (414)748-5377
Department: Physics
Student Level: All Levels
Academic Credits: 4.0
Duration: No. of weeks: 14.0 Hrs. per week: 4.0
Contact Hours: 56.0
Classroom: 56.0

UNIVERSITY OF WISCONSIN

Madison, WI 53706
(608)262-1234 (003895)

Curriculum with Solar Study

Solar Energy Research Program
Degree: Doctorate, Master Mechanical Engineering and Chemical Engineering
Department: Engineering
Contact: Duffie, J. A. (608)263-1587

Program Training: Scientific Research and Development in Solar Energy; Engineering-Solar Specialization; Heating, Ventilation, Air Conditioning-Solar Specialization

Program and Curriculum Related Courses

Solar Energy Technology
Course Number: ME/CHE 567
Instructor: Duffie, J. A. (608)263-1587
Department: Engineering
Program: Solar Energy Research Program
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Passive Solar Systems; Solar Cooling; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Related Courses

Solar Radiation and Wind Energy
Course Number: 330
Instructor: Stearns, Charles R. (608)262-0780
Department: L and S Meteorology
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Offered: Day
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Introduction to Solar Energy; Wind Energy Conversion Systems

Survey of Renewable Energy Sources
Course Number: 131
Instructor: Stearns, Charles R. (608)262-0780
Department: L and S Meteorology
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Wind Energy Conversion Systems

UNIVERSITY OF WISCONSIN AT EAU CLAIRE

Eau Claire, WI 54701
(715)836-0123 (003917)

Tuition (Full Time):

Resident: $392.00 Non Resident: $1,310.00

Solar Related Courses

Solar Energy
Course Number: 336
Instructor: Janke, Robert (715)836-3718
Department: Geography
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Offered: Day; Evening
Course Fee: Resident: $98.00; Non Resident: $330.00
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Marketing/Economic Analysis

UNIVERSITY OF WISCONSIN AT GREEN BAY

Green Bay, WI 54302
(414)465-2121 (003899)

Solar Related Courses

Introduction to Solar Energy *
Course Number: 862/483X
Instructor: Norman, Jack (414)465-2276
Department: Science and Environmental Change
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 8.0; Hrs. per week: 5.2
Contact Hours: 42.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Photovoltaics and Solar Cells; Solar Energy Policy Development; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating; Wind Energy Conversion Systems

Solar and Alternate Energy Systems *
Course Number: 862/415
Instructor: Mehra, Anjani (414)465-2371; Lanz, Robert
Department: Science and Environmental Change
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Topics Covered Extensively: Alternate Energy Sources; Photovoltaics and Solar Cells; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF WISCONSIN AT LA CROSSE

La Crosse, WI 54601
(608)785-8000 (003919)

Solar Related Courses

Energy Problems - Solar Options *
Instructor: Egbert, G. (608)785-8431; Fystrom, D.
Department: University Outreach and Physics
Student Level: All Levels
Duration: No. of weeks: 1.0; Hrs. per week: 24.0
Contact Hours: 24.0
Topics Covered Extensively: Alternate Energy Sources; Heat and Energy Transfer; Introduction to Solar Energy

Introduction to Solar Energy
Course Number: 105
Instructor: Egbert, G. (608)785-8431; Fystrom D.
Department: Arts, Letters and Science/ Physics
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 16.0; Hrs. per week: 2.0
Contact Hours: 32.0
Classroom: 26.0
Lab: 6.0
Offered: Evening
Course Fee: Resident: $71.50; Non Resident: $240.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF WISCONSIN AT MILWAUKEE

3200 North Cramer
Milwaukee, WI 53201
(414)963-4444 (003896)

Solar Curriculum

Solar Architecture *
Degree: Master
Department: Architecture
Contact: Catanese, Anthony James (414)963-4016
Program Training: Architecture-Solar Specialization

Program and Curriculum Related Courses

Energy Conscious Design *
Course Number: 470/770
Instructor: Dent, S. (414)963-5050; Ollswang, J.; Shade, J.
Department: Architecture and Urban Planning
Program: Solar Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 16.0
Contact Hours: 256.0
Classroom: 52.0
Lab: 204.0
Topics Covered Extensively: Components-Solar; Energy Conservation; Introduction to Solar Energy; Passive Solar Systems; Solar Cooling; Solar Heating; Solar Systems Design

Energy Design Fundamentals, Urban Planning *
Course Number: 497
Instructor: Dent, Stephen D. (414)963-5650
Department: Architecture and Urban Planning
Program: Solar Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Energy Design Fundamentals *
Course Number: ARCH 497
Instructor: Shade, John (414)963-4014
Department: Architecture
Program: Solar Architecture *
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design

ptions in Energy Conscious Design •

ourse Number: ARC470/770
Instructor: Schade, John (414)963-4014
Department: Architecture
Program: Solar Architecture •
Student Level: College Junior/Senior
Academic Credits: 9.0
Duration: No. of weeks: 15.0; Hrs. per week: 9.0
Contact Hours: 135.0
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Marketing/ Economic Analysis; Solar Systems Design

Solar Dwelling Design •

Course Number: 497
Instructor: Dent, Stephen D. (414)963-5650
Department: Architecture and Urban Planning
Program: Solar Architecture •
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 4.0; Hrs. per week: 10.0
Contact Hours: 40.0
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Passive Solar Systems; Solar Heating; Solar Systems Design

Solar Related Courses

Solar Engineering

Course Number: 330-436
Instructor: Neusen, K. F. (414)963-5001
Department: Engineering and Applied Science, Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 15.0; Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 40.0
Lab: 5.0
Offered: Day; Evening
Prerequisites: Yes
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF WISCONSIN AT OSHKOSH

Oshkosh, WI 54901
(414)424-1234 (009630)

Tuition (Full Time):
Resident: $245.00 Non Resident: $730.00

Solar Related Courses

Solar Energy

Course Number: 82-755
Instructor: Passow, M. W. (414)424-4430
epartment: Physics
tudent Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 3.0; Hrs. per week: 20.0
Contact Hours: 60.0
Classroom: 30.0
Lab: 30.0
Offered: Day
Course Fee: Resident: $147.00; Non Resident: $438.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Heating

Course Number: 82-355
Instructor: Passow, M. W. (414)424-4430
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 14.0; Hrs. per week: 3.0
Contact Hours: 42.0
Classroom: 42.0
Offered: Evening
Course Fee: Resident: $95.00; Non Resident: $328.00
Prerequisites: Yes
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

Solar Home Heating

Instructor: Passow, M. W. (414)424-4430
Department: Physics, Continuing Education
Student Level: Layperson
Duration: No. of weeks: 4.0; Hrs. per week: 3.0
Contact Hours: 12.0
Classroom: 12.0
Offered: Evening
Course Fee: Resident: $15.00; Non Resident: $15.00
Prerequisites: No
Topics Covered Extensively: Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Systems Design

UNIVERSITY OF WISCONSIN AT PARKSIDE

Wood Road
Kenosha, WI 53141
(414)553-2121 (005015)

Tuition (Full Time):
Resident: $370.00 Non Resident: $1,300.00

Solar Related Courses

Energy Alternatives

Course Number: 67-140
Instructor: Firebaugh, Morris (414)553-2465
Department: Physics
Student Level: All Levels
Academic Credits: 1.0 (Semester)
Duration: No. of weeks: 5.0; Hrs. per week: 3.0
Contact Hours: 15.0
Offered: Day
Course Fee: Resident: $41.00; Non Resident: $119.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Solar Energy Policy Development

UNIVERSITY OF WISCONSIN AT PLATTEVILLE

Platteville, WI 53818
(608)342-1234 (003921)

Solar Related Courses

Solar Heating Applications •

Course Number: ME 460
Instructor: Fiedler, Ross A. (608)342-1721
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0
Duration: No. of weeks: 16.0; Hrs. per week: 3.0
Contact Hours: 48.0
Classroom: 48.0
Topics Covered Extensively: Introduction to Solar Energy; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF WISCONSIN AT RIVER FALLS

River Falls, WI 54022
(715)425-3201 (003923)

Solar Related Courses

Solar Energy for Consumers

Instructor: Prachnow, N. H. (715)425-3560
Department: Physics
Student Level: All Levels
Duration: No. of weeks: 2.0; Hrs. per week: 4.0
Contact Hours: 8.0
Seminar: 8.0
Offered: Day; Evening
Course Fee: Resident: $10.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Greenhouse Techniques; Solar Heating; Solar Law/ Legislation; Solar Marketing/Economic Analysis

UNIVERSITY OF WISCONSIN AT STEVENS POINT

Stevens Point, WI 54481
(715)346-0123 (003924)

Tuition (Full Time):
Resident: $386.00 Non Resident: $1,317.00

Solar Related Courses

Energy in Today's World

Course Number: Physics 100
Instructor: Taylor, Allen G. (715)346-2791
Department: Physics
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0; Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab. 32.0
Offered: Day
Course Fee: Resident: $115.00; Non Resident: $348.00
Prerequisites: No

UNIVERSITY OF WISCONSIN AT STOUT

Menomonie, WI 54751
(715)232-0123 (003915)

Tuition (Full Time):
Resident: $348.50 Non Resident: $1,315.00

Curriculum with Solar Study

Power and Energy Concentration
Degree: Bachelor
Industrial Education
Department: Energy and Transportation
Contact: Sampson, Jack
(715)232-2451

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

Program and Curriculum Related Courses

Energy in Industry
Course Number: 110-101
Instructor: Rhoads, Charles
(715)232-1156
Department: Industry and Technology
Program: Power and Energy Concentration
Student Level: College Freshman/Sophomore
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 9.0
Hrs. per week: 6.0
Contact Hours: 54.0
Classroom: 27.0
Lab: 27.0
Offered: Day; Evening
Course Fee: Resident: $40.75
Non Resident: $152.80
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer

Energy Alternatives
Course Number: 170-596 (2)
Instructor: Baldwin, T.
(715)232-1384
Department: Energy and Transportation
Program: Power and Energy Concentration
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 9.0
Hrs. per week: 8.0
Contact Hours: 72.0
Classroom: 36.0
Independent Study: 18.0
Lab: 18.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $153.00
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Bioconversion; Energy Conservation; Heat and Energy Transfer; Solar Systems Design; Thermochemical Conversion; Wind Energy Conversion Systems

Energy Education for Secondary Programs
Course Number: 170-596 (1)
Instructor: Baldwin, T.
(715)232-1384
Department: Energy and Transportation
Program: Power and Energy Concentration
Student Level: College Junior/Senior
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 9.0
Hrs. per week: 6.0
Contact Hours: 54.0
Classroom: 40.0
Independent Study: 14.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Hybrid Systems

Industrial Energy Management
Course Number: 170-596 (3)
Instructor: Baldwin, T.
(715)232-1384
Department: Energy and Transportation
Program: Power and Energy Concentration
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 6.0
Contact Hours: 96.0
Classroom: 48.0
Independent Study: 32.0
Lab: 16.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $153.00
Topics Covered Extensively: Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Hybrid Systems; Materials; Process Heat

Solar Related Courses

Alternative Energy
Course Number: 110-596
Instructor: Rhoads, Charles
(714)232-1156
Department: Applied Science, Energy and Transportation
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 2.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Components-Solar; Introduction to Solar Energy

Architectural Design I
Course Number: 130-221
Instructor: Nystuen, Courtney
(715)232-1261
Department: Graphic Communications
Student Level: College Freshman/Sophomore
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 64.0
Classroom: 32.0
Lab: 32.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $153.00
Prerequisites: Yes
Topics Covered Extensively: Materials; Passive Solar Systems; Solar Heating

Heating, Ventilating, and Air Conditioning I
Course Number: 170-372
Instructor: Gehring, Glenn
(715)232-1259
Department: Materials and Processes
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 9.0
Hrs. per week: 8.0
Contact Hours: 72.0
Classroom: 36.0
Independent Study: 18.0
Lab: 18.0
Offered: Day
Course Fee: Resident: $41.00
Non Resident: $153.00
Prerequisites: No
Topics Covered Extensively: Energy Conservation; Materials; Solar Systems Design; Components-Solar

UNIVERSITY OF WISCONSIN AT SUPERIOR

1800 Grand Avenue
Superior, WI 54880
(715)392-8101 (003925)

Tuition (Full Time):
Resident: $258.00 Non Resident: $878.00

Solar Related Courses

Building Your Solar Heated Home
Instructor: Daigneau, William A.
(715)392-8101 EXT.237
Department: Business and Management
Student Level: All Levels; Layperson
C.E.U.'s: 1.2
Duration: No. of weeks: 4.0
Hrs. per week: 3.0
Contact Hours: 12.0
Classroom: 6.0
Workshop: 4.0
Lab: 2.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating

UNIVERSITY OF WISCONSIN AT WHITEWATER

800 West Main Street
Whitewater, WI 53190
(414)472-1234 (003926)

Tuition (Full Time):
Resident: $395.00 Non Resident: $1,326.00

Solar Related Courses

Residential Solar Heating
Course Number: 82/490-690
Instructor: Shinners, Carl W.
(414)473-2247
Department: Physics
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 30.0
Contact Hours: 60.0
Classroom: 20.0
Lab: 40.0
Offered: Day
Course Fee: Resident: $99.00
Non Resident: $332.00
Prerequisites: Yes
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Solar Energy Applications
Course Number: 82460
Instructor: Shinners, Carl
(414)472-1075
Department: Physics
Student Level: All Levels
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 17.0
Hrs. per week: 3.0
Contact Hours: 51.0
Classroom: 51.0
Offered: Evening
Course Fee: Resident: $99.00
Non Resident: $332.00
Prerequisites: No
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating

Solar Home Heating
Instructor: Shinners, Carl W.
(414)472-1075

Department: Physics
Student Level: Layperson
C.E.U.'s: 1.0
Duration: No. of weeks: 2.0
Hrs. per week: 4.0
Contact Hours: 8.0
Classroom: 8.0
ffered: Evening
ourse Fee: Resident: $25.00
Prerequisites: No
Topics Covered Extensively: Solar Domestic Hot Water; Solar Heating

Junior and Community Colleges

NICOLET COLLEGE AND TECHNICAL INSTITUTE

P O Box 518
Rhinelander, WI 54501
(715)369-4410 (008919)

Tuition (Full Time):
Resident: $240.00 Non Resident: $400.00

Solar Related Courses

Introduction to Solar Energy
Instructor: Horstketter, John
(715)369-4424
Department: Technical Education
Student Level: All Levels; Layperson
C.E.U.'s: 1.4
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Classroom: 20.0
Offered: Evening
Course Fee: Resident: $6.00
Non Resident: $6.00
Prerequisites: No
Topics Covered Extensively: Heat and Energy Transfer; Introduction to Solar Energy

Vocational / Technical Schools

DISTRICT ONE TECHNICAL INSTITUTE

Eau Claire, WI 54701
(715)836-3975 (005304)

Solar Related Courses

Alternate Energy Systems *
Instructor: Dougherty, Thomas A.
(705)836-2828
Department: Air Conditioning Technology
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 4.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Passive Solar Systems; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/ Maintenance; Solar Domestic Hot Water; Solar Heating; Solar Cooling

Solar Energy *
Department: Evening College
Student Level: All Levels
Duration: No. of weeks: 6.0
Hrs. per week: 2.0
Contact Hours: 12.0
Topics Covered Extensively: Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Passive Solar Systems; Components-Solar; Solar Systems Design

MILWAUKEE AREA TECHNICAL COLLEGE

1015 North 6th
Milwaukee, WI 53203
(414)278-6600 (003866)

Solar Related Courses

Residential Solar Heating
Course Number: 401-001
Instructor: Johnson, Hubern
(414)241-5273
Department: Heating, Air Cond., and Refrigeration
Student Level: Layperson
C.E.U.'s: 1.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Evening
Course Fee: Resident: $12.00
Non Resident: $30.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Storage Systems; Heat and Energy Transfer; Solar Domestic Hot Water; Solar Heating

MORAINE PARK TECHNICAL INSTITUTE

Fond Du Lac, WI 54935
(414)922-8611 (009256)

Solar Technical Training

Solar Energy *
Department: Community Services
Contact: Pasch, Rodney
(414)922-8611
Program Training: General Contracting-Specialization in Solar Design/Installation; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Solar Applications for the Construction Industry *
Course Number: 401/479
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 1.0
Hrs. per week: 6.0
Contact Hours: 6.0
Topics Covered Extensively: Introduction to Solar Energy; Solar Home Construction

Solar Energy - Air Handling Systems *
Course Number: 401/483
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 1.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Heat and Energy Transfer; Components-Solar; Solar Heating

Solar Energy for Realtors *
Course Number: 401/425
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 2.0
Hrs. per week: 5.0
Contact Hours: 10.0
Topics Covered Extensively: Alternate Energy Sources

Solar Energy Seminar *
Course Number: 401/482
Instructor: Pasch, Rodney
(414)922-9611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 1.0
Duration: No. of weeks: 1.0
Hrs. per week: 4.0
Contact Hours: 4.0
Classroom: 4.0
Topics Covered Extensively: Alternate Energy Sources

Solar Heat and Wind *
Course Number: 401/480
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 5.0
Duration: No. of weeks: 2.0
Hrs. per week: 10.0
Contact Hours: 20.0
Topics Covered Extensively: Solar Heating; Wind Energy Conversion Systems

Wind Energy Applications *
Course Number: 401/484
Instructor: Pasch, Rodney
(414)922-8611
Department: Trade and Technical
Program: Solar Energy *
Student Level: All Levels
Academic Credits: 2.0
Duration: No. of weeks: 1.0
Hrs. per week: 6.0
Contact Hours: 6.0
Topics Covered Extensively: Distributed Solar Power Systems; Wind Energy Conversion Systems

NORTH CENTRAL TECHNICAL INSTITUTE

Wausau, WI 54401
(715)675-3331 (005387)

Solar Related Courses

Principles of Solar *
Course Number: 614
Instructor: Beckman, Ronald
(715)675-3331
Department: Technical Education
Student Level: All Levels
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Marketing/Economic Analysis; Components-Solar; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/ Evaluation; Solar Domestic Hot Water; Solar Heating; Solar Cooling

WESTERN WISCONSIN TECHNICAL INSTITUTE

6th & Vine Streets
La Crosse, WI 54601
(608)782-6238 (003840)

Solar Related Courses

Introduction to Alternative Energy Resources
Course Number: 468/425
Student Level: Layperson
C.E.U.'s: 0.5
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Alternate Energy Sources; Bioconversion; Introduction to Solar Energy; Wind Energy Conversion Systems

Solar Energy for Homes
Course Number: 601/164
Instructor: Schneider, Lee (608)785-9277
Department: Trade and Industry
Student Level: College Freshman/Sophomore; Skilled Labor; Layperson
C.E.U.'s: 3.0
Duration: No. of weeks: 12.0
Hrs. per week: 3.0
Contact Hours: 36.0
Classroom: 36.0
Offered: Day; Evening
Course Fee: Resident: $21.45
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Energy Conservation; Energy Storage Systems; Introduction to Solar Energy; Materials; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Solar Energy Concepts
Course Number: 468/418
Student Level: Layperson
C.E.U.'s: 0.5
Duration: No. of weeks: 10.0
Hrs. per week: 2.0
Contact Hours: 20.0
Topics Covered Extensively: Introduction to Solar Energy

WISCONSIN INDIANHEAD TECHNICAL INSTITUTE AT SUPERIOR

600 North 21st Street
Superior, WI 54880
(715)395-6677 (090140)

Solar Related Courses

Energy Alternatives
Course Number: 606/170
Instructor: Ziesler, Anton (715)384 6677 EXT.259
Department: Trade and Industry
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 5.0
Contact Hours: 90.0
Classroom: 18.0
Lab: 72.0
Offered: Day; Evening
Course Fee: Resident: $30.00
Prerequisites: Yes
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Energy Storage Systems; Heat and Energy Transfer; Introduction to Solar Energy; Plumbing Techniques; Sheet Metal Techniques; Solar Domestic Hot Water; Solar Systems Testing/Evaluation
Contact Hours: 1520.0
Classroom: 280.0
Independent Study: 40.0
Workshop: 80.0
Job: 999.0
Lab: 120.0
Offered: Day
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Components-Solar; Energy Conservation; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Installation/Maintenance

Other Educational Institutions and Organizations

BROWN COUNTY ENERGY CONSERVATION CENTER

P O Box 684
Green Bay, WI 54305
(414)435-1051 (091090)

Tuition (Full Time):

Resident: $0.00 Non Resident: $0.00

Solar Related Courses

Practical Applications of Active and Passive Solar Energy
Instructor: Carr, Stephen M. (414)435-1051
Department: Brown County Energy Conserv. Ctr.
Student Level: All Levels; Managerial; Professional; Skilled Labor; Layperson
Contact Hours: 16.0
Classroom: 1.0
Seminar: 3.0
Workshop: 6.0
Job: 6.0
Offered: Day; Evening; Weekend
Course Fee: Resident: $0.00
Non Resident: $0.00
Prerequisites: No
Topics Covered Extensively: Appropriate Technology; Energy Conservation; Passive Solar Systems; Solar Heating

WEST CENTRAL WISCONSIN COMMUNITY ACTION AGENCY

525 Second Street
Glenwood City, WI 54013
(715)235-4248 (091050)

Solar Technical Training

Solar Training
Degree: Certificate
Residential Installation - Active and Passive
Department: Solar Util., Econ. Dev. and Employment
Contact: Hewitt, David C. (715)235-4248
Program Training: Solar System Installation-Residential; Solar Technology-Instrumentation, Controls, Design. Maintenance: Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Program: Solar Training

Solar Training
Instructor: Hewitt, David (715)235-4248
Department: SUEDE
Program: Solar Training
Student Level: All Levels
Duration: No. of weeks: 38.0
Hrs. per week: 40.0

Wyoming

Colleges and Universities

UNIVERSITY OF WYOMING

Laramie, WY 82071
(307)766-4121 (003932)

Tuition (Full Time):
Resident: $217.00 Non Resident: $860.00

Curriculum with Solar Study

Energy Education
Degree: Master
Natural Science
Department: Natural Science
Contact: Sindt, V. G.
(307)766-6381
Program Training: Solar Energy Education

Program and Curriculum Related Courses

Energy Activities for Teachers
Course Number: Na Sci 413M
Instructor: Sindt, V. G.
(307)766-6381
Department: Science, Math
Program: Energy Education
Student Level: All Levels
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 10.0
Hrs. per week: 3.0
Contact Hours: 30.0
Classroom: 7.5
Independent Study: 7.5
Workshop: 15.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No

Topics in Natural Science: Energy Activities for Teachers
Course Number: NA SCI 679M
Instructor: Sindt, V. G.
(307)766-6381
Department: Science, Math Teaching Center
Program: Energy Education
Student Level: College Graduate
Academic Credits: 2.0 (Semester)
Duration: No. of weeks: 2.0
Hrs. per week: 30.0
Contact Hours: 30.0
Classroom: 6.0
Independent Study: 6.0
Workshop: 18.0
Offered: Day
Course Fee: Resident: $25.00
Non Resident: $25.00
Prerequisites: No

Solar Related Courses

*Alternative Sources of Energy **
Course Number: CE 692M
Instructor: Hill, John
(307)766-4224
Department: Civil Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 35.0
Lab: 10.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Energy Storage Systems; Introduction to Solar Energy; Solar Heating; Solar Systems Design; Solar Systems Testing/Evaluation; Wind Energy Conversion Systems

Atmospheric Radiation
Course Number: ATSCI 890M
Instructor: Cerni, Todd
(307)766-3245
Department: Atmospheric Science
Student Level: College Graduate
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Offered: Day
Course Fee: Resident: $60.00
Non Resident: $60.00
Prerequisites: No
Topics Covered Extensively: Components-Solar

*Conservation of Natural Resources **
Course Number: 604D
Instructor: Beiswenger, Ronald
(307)766-4204
Department: Geography
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 54.0
Prerequisites: Yes
Topics Covered Extensively: Appropriate Technology

Energy Conversion II
Course Number: ME 624D
Instructor: Amr, Abdel-Fattah
(307)766-6139
Department: Mechanical Engineering
Student Level: College Junior/Senior
Academic Credits: 3.0 (Semester)
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 45.0
Offered: Day
Course Fee: Resident: $60.00
Non Resident: $60.00
Prerequisites: Yes

Environmental Education for Teachers
Course Number: EDC and I 671D
Instructor: Beiswenger, Ronald
(307)766-4204
Department: Curriculum and Instruction
Student Level: College Junior/Senior
Academic Credits: 4.0 (Semester)
Duration: No. of weeks: 18.0
Hrs. per week: 4.0
Contact Hours: 72.0
Classroom: 36.0
Lab: 36.0
Offered: Day; Evening
Course Fee: Resident: $80.00
Non Resident: $80.00
Prerequisites: No

WESTERN WYOMING COMMUNITY COLLEGE

Rock Springs, WY 82901
(307)382-2121 (003933)

Solar Related Courses

Solar Home Planning
Course Number: 52-299
Instructor: Bowles, Marvin
(307)382-2121
Department: Building Trades
Student Level: College Freshman/ Sophomore; Layperson
Academic Credits: 3.0 (Semester)
C.E.U.'s: 4.0
Duration: No. of weeks: 15.0
Hrs. per week: 3.0
Contact Hours: 45.0
Classroom: 30.0
Lab: 15.0
Offered: Evening; Weekend
Course Fee: Resident: $37.00
Non Resident: $45.00
Prerequisites: No
Topics Covered Extensively: Alternate Energy Sources; Centralized Solar Power Systems; Components-Solar; Distributed Solar Power Systems; Heat and Energy Transfer; Introduction to Solar Energy; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance

Junior and Community Colleges

CASPER COLLEGE

Casper, WY 82601
(307)268-2110 (003928)

Solar Related Courses

*Residential Energy Conservation **
Course Number: 73-070
Instructor: Hartman, Paul
(307)268-2604
Department: Construction Education
Student Level: College Freshman/Sophomore
Academic Credits: 1.0
Duration: No. of weeks: 10.0
Hrs. per week: 1.5
Contact Hours: 15.0
Classroom: 15.0

LARAMIE COUNTY COMMUNITY COLLEGE

Cheyenne, WY 82001
(307)634-5853 (009259)

Solar Related Courses

*Energy and Man **
Course Number: SCI 103
Instructor: Edwards, William C.
Department: Science
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 18.0
Hrs. per week: 3.0
Contact Hours: 54.0
Classroom: 40.0
Field Trips: 14.0
Topics Covered Extensively: Alternate Energy Sources; Energy Conservation

NORTHWEST COMMUNITY COLLEGE

Powell, WY 82435
(307)754-6111 (003931)

Tuition (Full Time):
Resident: $158.00 Non Resident: $388.00

Solar Related Courses

*Energy from the Sun **
Course Number: 34-280
Instructor: Eager, John
(307)754-6457
Department: Physics

Student Level: College Junior/Senior; Layperson
Academic Credits: 2.0
Duration: No. of weeks: 17.0
Hrs. per week: 2.0
Contact Hours: 34.0
Classroom: 24.0
Lab: 10.0
Offered: Evening
Course Fee: Resident: $26.00
Non Resident: $70.00
Prerequisites: No
Topics Covered Extensively: Components-Solar; Energy Conservation; Energy Storage Systems; Greenhouse Techniques; Heat and Energy Transfer; Introduction to Solar Energy; Materials; Passive Solar Systems; Solar Domestic Hot Water; Solar Heating; Solar Home Construction; Solar Systems Design

Topics Covered Extensively: Alternate Energy Sources; Appropriate Technology; Heat and Energy Transfer; Energy Storage Systems; Introduction to Solar Energy; Solar Home Construction; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling; Wind Energy Conversion Systems

Solar Heating and Cooling Systems •
Course Number: 155
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Energy Storage Systems; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Process Heat; Solar Heating; Solar Cooling

Wind Systems •
Course Number: 153
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Wind Energy Conversion Systems

SHERIDAN COLLEGE

Sheridan, WY 82801 (003930)

Curriculum with Solar Study

Solar Energy Technology •
Degree: Associate
Engineering Technology - Solar Option
Department: Career - Technology
Contact: Ohm, Kenneth R.
(307)674-6446
Program Training: Solar System Installation-Residential; Solar System Installation-Industrial/Commercial; Solar Technology-Instrumentation, Controls, Design, Maintenance; Do-It-Yourself/Home Installation

Program and Curriculum Related Courses

Energy Storage •
Course Number: 152
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Energy Storage Systems; Photovoltaics and Solar Cells; Wind Energy Conversion Systems

Installation and Service - Solar System •
Course Number: 150
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Installation/Maintenance; Solar Systems Testing/Evaluation; Solar Heating; Solar Cooling

Introduction to Solar Heating and Cooling •
Course Number: 150
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Introduction to Solar Energy; Materials; Components-Solar; Solar Systems Design; Solar Domestic Hot Water; Distributed Solar Power Systems; Solar Heating; Solar Cooling

Solar Collectors •
Course Number: 151
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Topics Covered Extensively: Components-Solar; Solar Systems Design; Solar Systems Testing/Evaluation

Solar Energy Fundamentals •
Course Number: 19/190
Instructor: Ohm, Kenneth R.
(307)674-6446
Department: Career/Technology
Program: Solar Energy Technology •
Student Level: College Freshman/Sophomore
Academic Credits: 3.0
Duration: No. of weeks: 16.0
Hrs. per week: 4.0
Contact Hours: 60.0
Classroom: 48.0
Lab: 12.0

1979-80 Education Directory Survey Instrument

Congress of the United States
House of Representatives
Washington, D.C. 20515

NATIONAL SOLAR ENERGY EDUCATION INFORMATION UPDATE

April 1979

TO: Institutions Offering Educational Activities

FROM:
U. S. Rep. George E. Brown, Jr.
U. S. Rep. James M. Jeffords
U. S. Rep. James J. Blanchard
U. S. Rep. Timothy E. Wirth
U. S. Sen. Charles H. Percy
U. S. Senator Paul E. Tsongas
U. S. Senator Gary Hart

The Congressional Solar Coalition is interested in your continued participation in a cooperative effort to update the data base of all solar energy related programs and courses being offered by our nation's post-secondary educational institutions.

The Department of Energy's Solar Energy Research Institute (SERI) in Golden, Colorado has created a computerized data base as part of the Congressionally mandated Solar Energy Information Data Bank (SEIDB). SERI will receive returns, edit and process the data, and create the appropriate retrieval, reporting, updating and analysis mechanisms. The compilation of the material from the first data collection effort in the summer of 1978 was made available in the first edition of the National Solar Energy Education Directory (March 1979). In addition, the National Solar Heating and Cooling Information Center (NSHCIC) and the regional Solar Energy Centers provide listings of solar educational offerings on a state-by-state basis free of charge to anyone calling their toll-free number: (800) 523-2929; in Pennsylvania, (800) 462-4983; and in Hawaii and Alaska, (800) 523-4700.

The National Solar Energy Education Directory is a comprehensive, 300-page up-to-date listing of solar-related courses, programs and curricula offered at institutions nationwide. Copies of the first edition of the Directory may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington DC 20402, Stock Number 061-000-00210-3, Price $4.75.

To insure that all new and updated information is included in the next Directory, the deadline for returning the form is June 15, 1979. New courses and other program updates will be accepted at any time following the June 15th date. Even if you do not offer solar courses, please complete the first page and return the form.

We appreciate your participation and hope you will be able to use the compiled information. Your institution will receive notices of all publications created from the solar energy education data base.

Appendix A

Instructions

National Solar Energy Education Survey

a cooperative effort of
The Solar Energy Research Institute*
The Office of U.S. Congressman George E. Brown, Jr.
The Congressional Solar Coalition

The Solar Energy Research Institute, in cooperation with the office of U.S. Congressman George E. Brown, Jr. and the Congressional Solar Coalition, is requesting information about your institution's activities in solar energy. Our goal is to provide a comprehensive guide to education and training efforts related to solar energy throughout the world. Your participation in this task is appreciated.

The enclosed survey form is designed to obtain information about solar-related courses and programs offered by institutions during 1979 or 1980. Your assistance in making the entries as complete as possible is of great value. This information will be used to update the Educational Data Base which is part of the Solar Energy Information Data Bank (SEIDB).

If your institution responded to the 1978 survey and is included in the National Solar Energy Education Directory**, First Edition, we have enclosed a computerized printout of the information that was submitted. Please review the printout, make corrections where necessary, and supply information where none is present. Also, please complete the provided survey sections with information on your institution's solar energy education offerings which are not listed on the computer printout.

If your institution is not presently listed in the National Solar Energy Education Directory, or if the Directory listing is created from a secondary source of information, we request that you complete the survey form provided.

If you offer no solar-related courses or programs, please complete only Part I of the survey.

On all solar-related courses and programs, we would appreciate receiving any additional information which you feel would be helpful.

Please observe the following guidelines in completing the survey:

Solar Technologies

- In addition to the more commonly recognized applications of solar heating, cooling, and electrification, consider wind, biomass conversion, and ocean thermal energy conversion as solar technologies.

Program Definitions

- A Solar Curriculum is a program in which the student receives a degree or diploma in a solar field — doctorate, master's, bachelor's, associate; e.g., "Master's in Solar Engineering"; "Associate Degree in Solar Installation"
- A Curriculum with Solar Study is a program in which the student receives solar education while working on a related degree or diploma — doctorate, master's, bachelor's, associate; e.g., "Doctorate in Physics" with solar emphasis; "Bachelor's in Architecture" with solar design experience.
- Solar Technical Training (Non-Academic Degree) is a program in which the student receives a certificate for study in solar energy or a solar-related field; e.g., solar technician.

Solar Course Definition

- A Solar Course or Solar-Related Course is a lecture, workshop, seminar, research project, laboratory, on-the-job training experience, or other educational experience where the solar content is equal to one-third (1/3) or more of the total course contact hours.

To insure accurate information in future publications, please return all surveys in the envelope provided by June 15, 1979. A further update or correction may be returned at any time to:

SERI, Academic Programs
Attn: Georgo Corcolootos
1536 Cole Boulevard
Golden, Colorado 80401

Call SERI, Academic Programs Branch, at (303) 231-1831 if you have any questions about this survey.

THANK YOU VERY MUCH FOR YOUR PARTICIPATION

* SERI (Solar Energy Research Institute) is a Division of Midwest Research Institute.

** Copies of the National Solar Energy Education Directory may be obtained from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Part I — Institution Information (1979-1980)

Please type or print legibly.

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Institution Name _____
Address _____
City _____ State _____ Zip _____

IMPORTANT
We request the following information of the person filling out or coordinating the response to this survey.

Name _____ Position _____
Department _____ Phone ( ) _____ Ext. _____

1. Institution Type (Circle single most appropriate response): 1. _____

   [U] University/College/Graduate School
   [J] Junior/Community College
   [V] Vocational/Technical School
   [R] Research Institute/Laboratory
   [T] Trade Association
   [L] Labor Organization
   [I] Industrial Organization
   [G] Government Organization
   [E] Adult/Community Education
   [A] Political Action Group
   [P] Professional Association
   [O] Other _____

2. What is your institution's total educational enrollment? _____ 2. _____

3. Control or affiliation of your institution (Circle one): 3. _____

   [1] Public [2] Private [3] Combination—Public/Private

4. What is the minimum admission level for students attending your institution? (Circle one) 4. _____

   [1] Only the ability to profit from attendance
   [2] High school graduate or equivalent
   [3] High school graduate and superior academic aptitude
   [4] Two-year college graduate
   [5] Four-year college graduate
   [6] Other (Specify) _____

5. How is your school year divided? (Circle one) 5. _____

   [S] Semester [Q] Quarter [T] Trimester [N] Not Applicable [O] Other (Specify) ____

6. If you have no solar-related programs or courses, circle the response, stop here, and return this part of the survey. Thank you. 6. _____

   [N] No solar programs or courses.

If you have solar-related programs or courses, please go to Part II.

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Part II — Solar Energy Program Information (1979-1980)

NOTE: If more than one solar program is offered during 1979 or 1980, please make copies of this part for each.

1. Which of the following programs does your institution offer or plan to offer during 1979 or 1980? NOTE: Please see Program Definitions on instruction page.

   [SC] Solar Curriculum, Awarding a Degree or Diploma in a Solar Field

   [SS] Curriculum with Solar Study, Awarding a Degree or Diploma in a Solar-Related Field

   [ST] Solar Technical Training, Awarding a Certificate for Study in Solar Energy or a Solar-Related Field

   If you have not circled one of the above program types, go to Part III.

2. Program Name: _____
3. Department Offering Program: _____
4. Head of Program: _____
5. Phone: (__)_____ Ext. _____
6. What degree does the student receive? (Circle appropriate responses)

   [D] Doctorate [B] Bachelor's [C] Certificate

   [M] Master's [A] Associate [O] Other (Specify) _____

7. What is the discipline or subject area of the above degree type? _____

   _____

8. Estimate the number of students completing the above program for the years indicated:

   1973: _____ 1974: _____ 1975: _____ 1976: _____

   1977: _____ 1978: _____ 1979: _____ 1980: _____ 1981: _____

9. As a result of having completed the above program, students will be trained in the following area(s) (Circle as many as apply):

   [ARC] Architecture—Solar Specialization

   [EDU] Solar Energy Education

   [ADM] Solar Energy Administration/ Policy

   [RES] Scientific Research and Development in Solar Energy

   [ENG] Engineering—Solar Specialization

   [MEC] Mechanical/Electrical Contracting Solar Specialization

   [CON] General Contracting—Specialization in Solar Design/Installation

   [HVC] Heating, Ventilation, Air Conditioning—Solar Specialization

   [INR] Solar System Installation—Residential

   [INI] Solar System Installation—Industrial/Commercial

   [SOT] Solar Technology—Training in Instrumentation, Controls, Design Maintenance, Etc.

   [ELE] Electricity—Solar Specialization

   [PLB] Plumbing—Solar Specialization

   [SHM] Sheet Metal—Solar Specialization

   [HOM] Do-It-Yourself/Home Installation

   [OTH] Other Solar Specialization (Specify) _____

10. Does your institution offer a job placement service? [Yes] [No]
11. Does your institution have any procedures for following student employment after program completion? [Yes] [No]
12. If yes, what is the estimate of the percentage of students who find employment in the field for which they are specifically trained as a result of having completed the above program: _____ %

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1. _____
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7. * _____
8. '73 _____
   '74 _____
   '75 _____
   '76 _____
   '77 _____
   '78 _____
   '79 _____
   '80 _____
   '81 _____
9. _____
10. _____
11. _____
12. _____ %

Part III — Solar Energy Course Information (1979-1980)

NOTE: If more than one solar course is offered during 1979 or 1980, please make copies of this part for each.

1. Course Title: _____
2. Course No.: _____
3. Instructor or Contact Person: _____
4. Phone: (__) _____ Ext. _____
5. Department Offering Course: _____
6. Is course also taught in conjuction with other departments/schools? [Yes] [No]
7. Is course part of a program described in Part II of this survey? [Yes] [No]
8. If yes, give program name: _____
9. Number of times course taught to date: _____
10. Average enrollment per class: _____
11. Estimate the number of students completing the course for the years indicated:
    1973: _____ 1974: _____ 1975: _____ 1976: _____
    1977: _____ 1978: _____ 1979: _____ 1980: _____ 1981: _____
12. Is the course offered for academic credit? [Yes] [No]
13. If yes, how many credits? _____
14. Are continuing education units offered for this course? [Yes] [No]
15. If yes, how many units? _____
16. Level for which course is offered:

Academic Level	Non-Academic Level
[AL] All Levels	[MA] Managerial
[CG] College Graduate	[PR] Professional
[JS] College Junior/Senior	[SK] Skilled labor
[FS] College Freshman/Sophomore	[LA] Layperson
[OA] Other (Specify) _____	[ON] Other (Specify) _____

17. Duration of Course:

No. of weeks _____		No. of Days _____
Hours per week _____	OR	Hours Per Day _____
Total Course Contact Hours _____		Total Course Contact Hours _____

18. Detailed Course Contact Hours for Duration of Course:

Lecture/Discussion _____	Hrs.	Seminar _____	Hrs.
Research/Independent Study _____	Hrs.	Workshop _____	Hrs.
On-the-Job Training _____	Hrs.	Laboratory _____	Hrs.
Other (Specify) _____		_____	Hrs.

19. When is this course offered? (Circle as may as apply):
    [D] Day [E] Evening [W] Weekend

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11. '73
    '74
    '75
    '76
    '77
    '78
    '79
    '80
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16.
17. W D
    H H
    T T
18. D S
    R W
    J L
    O
19.

20. Tuition and fees for a full-time student for one term: $_____Resident
$_____Non-resident

21. Tuition and fees for a student taking just this course: $_____Resident
$_____Non-resident

22. What are the principal texts used in this course?

	AUTHOR	TITLE
1.	_____	_____
2.	_____	_____

23. Are there any prerequisites for taking this course? [Yes] [No]

24. To what extent are the following topics covered in this course? Circle a 1 or 2 using the following code definitions:

1-Topic Covered Extensively (Major course topic or concept)
2-Topic Covered In Some Detail (Minor course topic or concept)

Do not code topics covered superficially.

[1] [2] ALTE - Alternate Energy Sources
[1] [2] APRT - Appropriate Technology
[1] [2] BIOM - Bioconversion
[1] [2] CENT - Centralized Solar Power Systems
[1] [2] COMP - Components—Solar
[1] [2] DIST - Distributed Solar Power Systems
[1] [2] CNSV - Energy Conservation
[1] [2] STOR - Energy Storage Systems
[1] [2] GRHT - Greenhouse Techniques
[1] [2] HETR - Heat and Energy Transfer
[1] [2] HYBR - Hybrid Systems
[1] [2] INTR - Introduction to Solar Energy
[1] [2] MATR - Materials
[1] [2] SEAS - Ocean Systems
[1] [2] PASS - Passive Solar Systems
[1] [2] PHOT - Photoconversion
[1] [2] PHVC - Photovoltaics and Solar Cells
[1] [2] PLMB - Plumbing Techniques
[1] [2] PROC - Process Heat
[1] [2] SSPS - Satellite Solar Power Systems
[1] [2] SHMT - Sheet Metal Techniques
[1] [2] SHAC - Solar Cooling
[1] [2] HOTW - Solar Domestic Hot Water
[1] [2] POLD - Solar Energy Policy Development
[1] [2] SHAK - Solar Heating
[1] [2] CNST - Solar Home Construction
[1] [2] LAWL - Solar Law/Legislation
[1] [2] MRKT - Solar Marketing/ Economic Analysis
[1] [2] SWPL - Solar Swimming Pool Heating
[1] [2] SSYD - Solar Systems Design
[1] [2] INST - Solar Systems Install./ Maintenance
[1] [2] TEST - Solar Systems Testing/ Evaluation
[1] [2] CHEM - Thermochemical Conversion
[1] [2] WIND - Wind Energy Conversion Systems
[1] [2] OTHR - Other (Specify) _____

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20. R_____ NR_____
21. R_____ NR_____
22. _____
23. _____
24. _____

Sources of Information

The Solar Energy Research Institute (SERI) and its Solar Energy Information Data Bank (SEIDB) produce many solar awareness materials and technical reports. Information about available publications and other materials may be obtained by writing:

Document Distribution Service
Solar Energy Research Institute
1617 Cole Boulevard
Golden, Colorado 80401

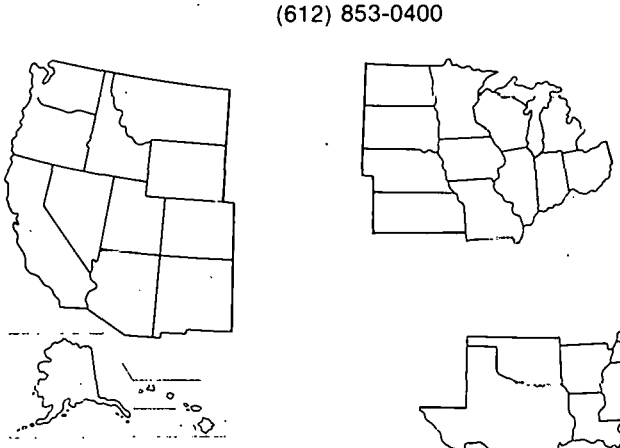
Questions about solar energy or requests for bibliographic searches in solar topics should be directed to the Solar Energy Information Center at the SERI address listed above or call SERI at (303) 231-1000. Questions specifically concerned with solar heating and cooling should be directed to:

National Solar Heating and Cooling Information Center
Post Office Box 1607
Rockville, Maryland 20850

Telephone: (800) 523-2929
In Pennsylvania: (800) 462-4983
In Alaska and Hawaii: (800) 523-4700

Information is available at a local level from State Energy Offices or from these four regional solar energy centers:

Mid-American Solar Energy Complex
8140 26th Avenue, South
Bloomington, MN 55420
(612) 853-0400



Northeast Solar Energy Center
70 Memorial Drive
Cambridge, MA 02142
(617) 661-3500

Western Solar Utilization Network
Suite 160
921 S.W. Washington Street
Portland, OR 97205
(503) 241-1222

Southern Solar Energy Center
61 Perimeter Park
Atlanta, GA 30341
(404) 458-8765

Institutions and Organizations

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