

El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	<u>Renewable Energy Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ELMT 1411</u>
COURSE TITLE	<u>Solar Fundamentals</u>
CONTACT HOURS	<u>4 3 : 3</u> Credits Lec Lab

I. Catalog Description

Studies heat transference, motors, pumps and other mechanical devices; solid state switches; photovoltaic plates and energy conversion; thermal dynamics; and solar energy. **(3:3). Lab fee.**

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Demonstrate safe and proper work habits.
- B. Categorize the heat capacitance and specific heat values of various materials.
- C. Categorize heat movement through reflection, absorption, radiation, and magnification.
- D. Categorize the collection, control, dissipation, storage, and distribution of heat energy.
- E. Maintain and repair mechanical equipment.

III. THECB Learning Outcomes (WECM)

- 1. Demonstrate safe and proper work habits.
- 2. Categorize heat capacitance and specific heat values of various materials.
- 3. Categorize heat movement through reflection, absorption, radiation and magnification.
- 4. Categorize the collection control, dissipation, storage and distribution of heat energy.
- 5. Maintain and repair mechanical equipment.

IV. Evaluation

The students must demonstrate the knowledge and skills stated in the objectives in order to complete the course. Letter grades will be arranged as follows:

Grade Scale:

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Students should be able to compute their grade average anytime during the course. Missed assignments and make-up tests will be given at the discretion of the instructor.

IV. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-8815); and MDP Rm A-125 (831-7024).

V. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.