

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<u>Renewable Energy</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>ELMT 1411</u>
<b>COURSE TITLE</b>	<u>Solar Fundamentals</u>
<b>CONTACT HOURS</b>	<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.