

PELLISSIPPI STATE COMMUNITY COLLEGE  
MASTER SYLLABUS

**SPECIAL TOPICS IN ELECTRICAL ENGINEERING TECHNOLOGY**  
**EET-2900**

Class Hours: VARIES  
Laboratory Hours: VARIES

Credit Hours: 1-4  
Date Revised: Spring 2017

**Catalog Course Description**

Special projects and applications in emerging technology. Content will vary, as this course is a means for classes to explore certain topics in depth not covered in the general curriculum. May be repeated, maximum 9 credits.

**Prerequisites**

Consent of instructor.

**Corequisites**

None

**Textbook(s) and Other Course Materials**

Textbooks will vary, depending on the course topic and the instructor.

**Week/Unit/Topic Basis**

<b>Week</b>	<b>Topic</b>
1-14	Activities will vary according to course content and may include lectures, discussions, field trips, experiments, individual and/or group projects, essays, and term papers. The course syllabus distributed on the first day of class will list specific information.
15	Final Exam Period

**Engineering Technology General Outcomes (Educational objectives)**

- I. Apply basic engineering theories and concepts creatively to analyze and solve technical problems
- II. Utilize with a high degree of knowledge and skill equipment, instruments, software, and technical reference materials currently used in industry.
- III. Communicate effectively using developed writing, speaking, and graphics skills.
- IV. Assimilate and practice the concepts and principles of working in a team environment.
- V. Obtain employment within the discipline or matriculate to a four year program in engineering or industrial technology

**Engineering Technology Concentration Competencies**

NOTE: At the program level all 6 competencies apply to roman numerals I – V of the Engineering Technology General Outcomes (Educational objectives) listed above.

Students will

- A. Apply the knowledge, techniques, skills, and modern tools for the concentration of study to specifically defined engineering technology activities
- B. Demonstrate the knowledge of mathematics, science, engineering and technology to engineering technology problems using developed practical knowledge
- C. Conduct and report the results of standard tests and measurements, and conduct, analyze and interpret experiment or project results
- D. Function effectively as a member of a technical team
- E. Identify, analyze and solve specifically defined engineering technology-based problems
- F. Employ Written, oral and visual communication in a technical environment

### **Course Goals**

NOTE: Capital letters after course goals reference the competencies of the Engineering Technology concentrations listed above.

The course will

- 1. Provide opportunities for students to have unique experiences in learning about applications in the selected program of study. (A, B, C, E)
- 2. Develop an understanding of new opportunities in program-related technology. (A, B, C, E)
- 3. Develop critical thinking skills and problem solving skills to review and analyze information relating to the selected topic. (A, B, C, E)
- 4. Develop an appreciation of the societal issues involved with the special topic, when appropriate. (A, B, C, E)

### **Expected Student Learning Outcomes**

NOTE: Numbers after Expected Student Learning Outcomes reference the course goals listed above.

The student will

- a. Discuss basic and advanced facts associated with the selected topic. (1, 2, 3, 4)
- b. Discuss implications for society based on information regarding the selected topic. (1, 2, 3, 4)
- c. Discuss implications for the future based on information regarding the selected topic. (1, 2, 3, 4)
- d. Understand the manner in which the special topic fits into the overall picture of the program of study. (1, 2, 3, 4)
- e. Discuss (depending on the course) appropriate technologies. (1, 2, 3, 4)
- f. Use (depending on the course) appropriate technologies. (1, 2, 3, 4)
- g. Demonstrate the ability to integrate the course information into related projects. (1, 2, 3, 4)

### **Evaluation**

Testing Procedures, Laboratory Expectations, Field Work: The specific evaluation methods will vary according to the course content. Essay test questions, participation in class activities, individual and/or group projects, and written out-of-class papers may all

be a part of the evaluation process. The course syllabus distributed on the first day of class will list specifics.

#### Grading Scale

A	93 - 100
B+	88 - 92
B	83 - 87
C+	78 - 82
C	70 - 77
D	60 - 69
F	Below 60

### **Policies**

#### Attendance Policy

Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which the course was taken. If further action is warranted, the appeal may be addressed to the vice president of Academic Affairs.

#### Academic Dishonesty

Academic misconduct committed either directly or indirectly by an individual or group is subject to disciplinary action. Prohibited activities include but are not limited to the following practices:

- Cheating, including but not limited to unauthorized assistance from material, people, or devices when taking a test, quiz, or examination; writing papers or reports; solving problems; or completing academic assignments.
- Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting published or unpublished work of another person, including online or computerized services, without proper documentation of the original source.
- Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared by another person or agency that sells term papers or other academic materials to be presented as one's own work.
- Taking an exam for another student.
- Providing others with information and/or answers regarding exams, quizzes, homework or other classroom assignments unless explicitly authorized by the instructor.
- Any of the above occurring within the Web or distance learning environment.

Please see the Pellissippi State Policies and Procedures Manual, Policy 04:02:00 Academic/Classroom Conduct and Disciplinary Sanctions for the complete policy.

#### Accommodations for Disabilities

Students that need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Disability Services (DS) in order to receive accommodations in this course. [Disability Services](#) (<http://www.pstcc.edu/sswd/>) may be contacted via [Disability Services email](#) or by visiting Alexander 130.