CENTRAL WASHINGTON UNIVERSITY
INDUSTRIAL AND ENGINEERING TECHNOLOGY

IET 430: Methods in Teaching Industrial Education, 3 credits

FACULTLY INFORMATION:

Instructor: Scott Calahan
Office: Power Technology Lab and Hogue Technology, Room 206
Office Hrs. 1:00 – 1:50 M-Th, and 9:00 – 9:50 T, Th, and by appointment
Telephone: 963-3218
E-mail calahans@cwu.edu

COURSE PREREQUISITES:

Admission to the teacher education program or permission of the instructor.

COURSE DESCRIPTION:

This course examines teaching techniques as they relate to teaching exploratory Technology Education in the public schools. Opportunities to prepare and present lessons to various grade levels using a variety of methods will be provided. The emphasis will be on those techniques that can make the beginning teacher successful in the middle and high school levels. Changing knowledge, behaviors, and attitudes whether it is in the public schools or industry is extremely difficult and interesting work. Technology education majors will receive the most contemporary techniques that are used in both schools and industry.

TEXT BOOKS AND OTHER REQUIRED MATERIALS:

1. Standards for Technological Literacy: Content for the Study of Technology, International Technology Education Association, 2000
2. Admission to and continuation in the Industrial/technology education program requires that you purchase LiveText.
3. 2002 Updated Safety Guide for Career and Technical Education downloadable at: http://www.k12.wa.us/CareerTechEd/resources.aspx
4. Safety Glasses

Learner Outcomes:	**Assessment:**
Present a demonstration of equipment usage. This may include live machinery, PowerPoint, transparencies, video equipment, and/or use of industrial materials, tools, and techniques.	The student will prepare and present their demonstration to fellow class members and/or technology ed. students in a public school setting.
Prepare a video presentation on a safety-related topic. This will include learning the operation of a real machine tool and developing graphics to illustrate parts of the machine.	The student will prepare a safety video involving moving machinery, which includes the student speaking/narrating and operating the machinery. Filming and editing techniques will be assessed.
Update oneself on a variety of the latest methodological trends in technology education, safety, and business/industry training.	The student will observe a public school Technology Education class/lab and provide a report to their fellow class members.

Select and construct teaching aids or devices to assist in the learning and communication process.	The student will teach a lesson to students in a public school setting, industrial application or to their peers. Part of the lesson will incorporate their teaching aid.
Organize a course into units and write a lesson plan for each unit of study.	The student will develop lesson plans following the prescribed format which meets state and national standards.

INSTRUCTIONAL METHODS AND ACTIVITIES:

1. PowerPoint presentations
2. Small and large group activities and discussions
3. In/out-of-class assignments and visitations
4. Student generated lessons
5. Demonstrations of safe/correct tool use in a lab

GRADING:

1. All assignments will be turned in on the day assigned during class time.
2. No make up allowed for assignments or exams unless provision for such circumstances is made in advance of the date in question.
3. Please ask questions if assignments are unclear. The final responsibility for misunderstandings and late work rests with the student.
4. Missing class is not acceptable. This course is designed to develop your professionalism and ability to deal with your professional peers. Discussion, questions, safety instruction and instructions on machines are all valuable and should not be missed.
5. Students are expected to perform ongoing cleaning and minor maintenance on equipment in the laboratory. Work areas should be straightened up and clean before leaving the lab. If cleanup is not done to the satisfaction of the instructor, for whatever reason, percentage points will be subtracted from the percentage accumulated for a grade in the class.
6. "Close" grades will be determined by late-to-class, absences, professionalism, enthusiasm, and willingness to learn.
7. All assignments will have specific criteria to follow with a specified number of points possible.
8. It is assumed that assignments from this course will be posted on LiveText and will become part of your portfolio for the final culmination of your program requirements.
9. Your final grade in the class will be determined by the following:

   Assignments, participation, etc. 60%
   (School visitations, Lesson plan development, Demo, Training session, etc.)
   Midterm Exam 20%
   Final Exam 20%

The following grade scale will be used for determining the final grade:

A = 94%-100%, **B+** = 87-89%, **C+** = 77-79%, **D+** = 67-69%, **F** = below 60%
A- = 90%-93%, **B** = 83-86%, **C** = 73-76%, **D** = 63-66%,
B- = 80-82%, **C-** = 70-72%, **D-** = 60-62%

11. An incomplete **(I)** will be given only in special circumstances and will be determined on an individual basis. In any case an appropriate timeline will be established to complete the required work.

ADA STATEMENT:
Students who have special needs or disabilities that may affect their ability to access information and or materials presented in this course are encouraged to contact the instructor or Mr. Robert Harden, AD Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related education accommodations.
Fall/ 07

Note: It Is Student's Responsibility To Record All Assignments Here

Week #	Topic	Assignments & Due Dates
1 **(Sept. 20)**	**Introduction to course** **Course requirements**	
2 **(Sept. 25 & 27)**	**Creating a lesson plan** **Writing objectives** **Learning styles**	
3 **(Oct. 2 & 4)**	**Curriculum Resources** **Test generation software**	
4 **(Oct. 9 & 11)**	**Creating teaching aids** **Visitation findings**	
5 **(Oct. 16 & 18)**	**STL standards** **Test #1**	
6 **(Oct. 23 & 25)**	**Teaching safety** **Legal requirements** **Human Causation Model**	
7 **(Oct. 30 & Nov. 1)**	**Safety video, study guide, assessment**	
8 **(Nov. 6 & 8)**	**High impact presentations**	
9 **(Nov. 13 & 15)**	**Teenage vs. adult learners**	
10 **(Nov. 20 & 22)**	**Teach lessons** **Thanksgiving recess - no class on 22nd**	
11 **(Nov. 27 & 29)**	**Teach lessons**	

Dec. 4 Finals Week Final Exam 10:00 – 12:00 or TBA

Note: Schedule & Topics Subject to Change