

COURSE SYLLABUS

I. COURSE IDENTIFICATION

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Course Prefix/Number:	ETEC 102
Course Title:	Introduction to Industrial Trades
Division:	Outreach and Workforce Development
Program:	Industrial Trades
Credit Hours:	Three (3)
Initiation/Revision Date:	Spring 2006
Assessment Goal per Outcome(s)	70%

II. CLASSIFICATION OF INSTRUCTION

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Vocational

III. COURSE DESCRIPTION

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This course introduces students to the latest techniques and technology used in light industry. Instruction will allow the students to explore the plastics, concrete, steel and building industries. This course is an introductory course which touches on safety, measurement, and blueprint reading in relationship to the industries explored.

IV. PREREQUISITE

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None

V. TEXTS

*The official list of textbooks and materials for this course are found on Inside NC.

Jaeger, Joy and Amrein, Edward. *Industrial Technology: Principles of Industrial Technology*, 2001. Schoolcraft Publishing, a division of Telemedia, Inc.

VI. COURSE COMPETENCIES

- I. Describe the plastics industry.
 - a. Discuss injection molding.
 - b. Demonstrate an understanding of plastic chemistry.
 - c. Discuss applications in industry.

- II. Describe the concrete industry.
 - a. Discuss the chemistry of concrete.
 - b. Discuss precast as it pertains to
 - a. Foundations
 - b. Walls
 - c. Roofs
 - d. Decks
 - c. Discuss concrete as it relates to the insulated concrete form industry

- III. Demonstrate an understanding of the steel industry.
 - d. Discuss steel manufacturing.

- e. Demonstrate a basic understanding of metallurgy.
 - f. Discuss fastenerless framing.
 - g. Describe the casting industry.
- IV. Demonstrate an understanding of construction trades.
 - a. Discuss wood construction building.
 - b. Discuss engineered wood technology.
- V. Discuss Partnership Technologies.
 - a. Define PATH (public-private partnership for advancing housing technology).
 - b. Describe wood/steel framing.
 - c. Describe pre-engineered lumber facings and solid EPS insulation laminating.
 - d. Describe polystyrene and steel forms.
 - e. Describe fiber-cement siding.
 - f. Describe panelized wall and floor systems.

VII. COURSE OUTLINE

- I. Plastics
- II. Concrete
- III. Steel
- IV. Construction Trades
- V. Partnership Technologies

VIII. INSTRUCTIONAL METHODS

- 1. Lecture
- 2. Audio-Visual aids
- 3. Example and demonstration
- 4. Field Trips
- 5. Guest Speakers
- 6. Tests

IX. STUDENT REQUIREMENTS AND METHOD OF EVALUATION

Evaluation of student performance is determined primarily from attendance, participation, test/quizzes, and projects. Points will be assigned to each assignment and a percentage of total points will be used to determine the grade.

X. GRADING SCALE

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

XI. ASSESSMENT OF STUDENT GAIN

Pre- and post- testing will be done. An electronic assessment matrix will be completed for each outcome in the course.

XII. ATTENDANCE POLICY

Absences that occur due to students participating in official college activities are excused except in those cases where outside bodies, such as the State Board of Nursing, have requirements for minimum class minutes for each student.

Students who are excused will be given reasonable opportunity to make up any missed work and will not be penalized for the absence. Proper procedure should be followed in notifying faculty in advance of the student's planned participation in the event. Ultimately it is the student's responsibility to notify the instructor in advance of the planned absence.

Unless students are participating in a school activity or are excused by the instructor, they are expected to attend class. If a student's *unexcused* absences exceed one-hundred (100) minutes per credit hour for the course *or*, in the case of on-line or other non-traditional courses, the student is inactive for one-eighth of the total course duration, the instructor has the right, but is not required, to withdraw a student from the course. Once the student has been withdrawn for excessive absences, the registrar's office will send a letter to the student, stating that he or she has been withdrawn. A student may petition the chief academic officer for reinstatement by submitting a letter stating valid reasons for the absences within one week of the registrar's notification. If the student is reinstated into the class, the instructor and the registrar will be notified.

ACADEMIC INTEGRITY

NCCC expects every student to demonstrate ethical behavior with regard to academic pursuits. Academic integrity in coursework is a specific requirement. Definitions, examples, and possible consequences for violations of Academic Integrity, as well as the appeals process, can be found in the College Catalog, Student Handbook, and/or Code of Student Conduct and Discipline.

CELL PHONE POLICY

Student cell phones and pagers must be turned off during class times. Faculty may approve an exception for special circumstances.

NOTE:

Information and statements in this document are subject to change at the discretion of NCCC. Changes will be published and made available to the students.

NOTE: If you are a student with a disability who may need accommodation(s) under the Americans with Disabilities Act (ADA), please notify the *Dean of Student Development*, Chanute Campus, Student Union, 620-431-2820, Ext. 213., or the *Dean, Ottawa Campus*, 785-242-2607 ext 312, as soon as possible. You will need to bring your documentation for review in order to determine reasonable accommodations, and then we can assist you in arranging any necessary accommodations.