

MAYLAND COMMUNITY COLLEGE



ELN 150 10
5-29-07

PO Box 547
or
200 Mayland Drive
Spruce Pine, NC 28777
828-765-7351 or 1-800-462-9526
www.mayland.edu

MAYLAND COMMUNITY COLLEGE
Welcomes You To:

ELN 150 10 CAD for Electronics
Contact: 4 Credit: 2

Course Description

This course introduces computer-aided drafting (CAD) with an emphasis on applications in the electronics field. Topics include electronics industry standards (symbols, schematic diagrams, layouts); drawing electronic circuit diagrams; and specialized electronic drafting practices and components such as resistors, capacitors, and IC's. Upon completion, students should be able to prepare electronic drawings with CAD software.

Prerequisites: CIS 110 or CIS 111

Corequisites: None

Instructor Information

Instructor: David Pittman
Office Location: 102b
Telephone Number: 765-7351 ext. 284
E-mail Address: dpittman@mayland.cc.nc.us
Office Hours: M-W 3:00 – 5:00

Course Information

Course meetings: M-W 11:00 – 2:50

Required Text(s): AutoCAD A Problem Solving Approach
Tickoo, Sham

LRC Resources: None

Required supplies: Paper, pencils.

Course Objectives/Competencies:

1. Overview of basic computer skills
2. Crucial terms and elemental concepts presented as the foundations for the topics addressed throughout the remainder of the course.
3. Fundamentals of working with a geometry.
4. Fundamentals of adding notes and verifying geometry's.
5. Creation of libraries and file management techniques.

Attendance Policy/Tardiness/Make-Up Work:

Prompt and continual attendance is required. All assignments are due 'on time'. Students will receive a zero for any assignment not turned in on time. As for a missed exam, a makeup opportunity will not be allowed, except for authorized excuses (such as notes from a doctor or hospital, proof will be required).

Grading Criteria/Tests/Projects:

Tests 20%
Project 10%
Exercises 55%
Final Exam 15%

Grading Scale:

A =>90 AND complete all exercises
B =>80 < 90
C =>70 < 80
D =>60 < 70
F <60

Inclement Weather Procedures:

If we experience dangerous weather conditions do not risk your safety to come to class. Any classes that are missed due to weather will be made up at a time that is satisfactory to all.

Academic Standards/Student Expectations/Ethics:

Do your own work. Be cordial to and respectful of your classmates. If you cheat on a test, copy someone's homework, or exhibit unethical behavior; you will be subject to one or more of the following: (1) No credit for the assignment/exam and/or (2) removal from the course. If you wish to contest any assertion of failure to meeting academic standards, you may exercise the due process options listed in the Student Handbook.

Withdrawal Dates:

End of unconditional withdrawal: 6-21-2007
End of conditional withdraw: 7-17-2007

Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

Course Outline/Weekly Topics

Week 1 starting AutoCAD, selecting commands, lines, circles, saving
Week 2 Draw commands: arcs, rectangles, polygons, polylines, points. **Exam I.**
Week 3 Drawing Aids: units, limits, layers, grid, snap, ortho, function keys.
Week 4 editing Commands: move, copy, offset, rotate, array, mirror.
Week 5 Controlling drawing display, Creating text.
Week 6 Basic dimensioning, changing dimension settings. **Exam II.**
Week 7 Editing dimensions, dimension styles, system variables.
Week 8 Hatching, blocks, 3D-objects. **Final Exam.**

While I have attempted to be as thorough as possible with this syllabus, actual course procedure may vary to meet the needs of this particular group.