

Course Outline**Winter 2005**

| | |
|---|--------------------------------------|
| Division: Business, Engineering & Information Technology | |
| Program/Dept: | Architectural Engineering Drafting |
| Course Number: TDR 175 | Credits: 4.0 Variable: |
| Course Title: Intermediate Auto CAD for Architectural and Engineering Drafting | |
| Inst. Intent: 21 Vocational Preparatory | CIP: 15.1304 |
| Fee: Yes | Type: CL-Computer Lab Fee |

| | |
|--|--|
| Degree/Certificate Requirement: | Yes |
| Name of Degree/ Certificate Requirements: | Night Class, - May be applied to Certificate and to AAS in Architectural Engineering Drafting. |
| Distribution Requirement for AA/AAS: | Yes |
| Transfer Status to 4-year institution: | No. |
| If yes, please describe: | |
| Course Length: Based on 11 wks/qtr. | Class Size: 24 |
| Course Contact Hours: 44hrs. | |
| Lecture: 44 | Lab: Clinical: Other: |
| Prerequisite: Yes | If yes, please describe: TDR 174 or Instructor Permission. |
| Required Placement Tests: No | If yes, please describe: . |
| Comments: | |

Course Description:

Student continues with more advanced AutoCAD commands and features in addition to reinforcing their basic skills acquired in the introductory class. Emphasis will be given to techniques increasing productivity increasing techniques along with an increased complexity of project assignments. Through lecture, individual projects and small assignments, students will build the tools necessary to complete for AutoCAD positions in the design community.

Course Outcomes/Learning Objectives:

Students will produce typical architectural or engineering construction drawings and details while striving for speed and efficiency in their presentation.

NSCC General Education Outcomes and/or Related Instructional Outcomes (for technical courses) Met by Course:

- Outcome 4. Demonstrate the ability to access, evaluate and apply information from a variety of sources and a variety of contexts.
- Outcome 5. Demonstrate computer competency appropriate to general education and occupational goals.
- Outcome 6A. Demonstrate effective listening skills.

Topical Outline and/or Major Divisions:

Polyline advantages
 Practical use of hatching
 Prototype (template) drawings
 Blocks and symbols -layer interaction
 Library management & maintenance
 Layers in the real world--generic, interpretation, conversion, and keeping control
 Freeze, thaw, and disaster prevention
 Attributes in symbols, inserted objects, creating and editing
 External references
 Using a consultant's cad files /layers
 Larger drawing /file management
 Multi-sheet vs. multi-layer projects and hardware limitations
 Hard disk organization
 Projects as a team-production problems
 Model space & paper space
 Discussion of third party software

Course Requirements (Expectation of Students):

Attendance, performance and participation.

Methods of Assessment/Evaluation:

One (short) written test--20% of grade; one assigned project --40% of grade; one student created project --40% of grade.

Required Text(s) and/or Materials:

As selected by Instructor.

Supplemental Text(s) and/or Materials: As selected by instructor.

Outline Developed by: Steve Thomas **Date:** 4/5/93

Revised by: James Wall **Date:** 5/95, 5/99, 2/02, 5/04