OAKTON COMMUNITY COLLEGE

GENERIC COURSE SYLLABUS

I. COURSE COURSE

PREFIX NUMBER COURSE NAME CREDIT LECTURE LAB

###### CAD 116 Basic AutoCAD 3 2 2

II. Prerequisite:

None

III. Course (catalog) Description:

A first course in drafting and design using AutoCAD software. The course covers setting up a drawing electronically, drawing and editing, construction techniques, display commands, effective layering, dimensioning and detailing, using blocks, and plotting.

IV. Learning Objectives:

The main objective is to develop the engineering student's ability to analyze and solve problems in a lab environment utilizing Computer Assisted Drafting systems and techniques. The emphasis is on the correct understanding of the Computer Assisted Drafting System both drawing competency and programming language. Drawing problems will focus on industry related drawing problems.

V. Academic Integrity:

The very nature of higher education requires that students adhere to accepted standards of academic integrity. Therefore, Oakton Community College has adopted a Code of Academic Conduct and a Statement of Student Academic Integrity. These may be found in the Student Handbook. You may also find a summary of the Code of Academic Conduct in the College Catalog. Among the violations of academic integrity listed and defined are: cheating, plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, falsification of records and official documents, personal misrepresentation and proxy, and bribes, favors, and threats.

It is the student's responsibility to be aware of behaviors that constitute academic dishonesty.

Pursuant to the due process guarantees contained in the Policy and Procedures on Student Academic Integrity, the minimum punishment for the first offense for a student found in violation of the standards of academic integrity is failure in the assignment. In addition, a disciplinary record will be established and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

1. Outline of Topics:

###### Week Topic

1 Understanding the Release 2000 Interface.

[Chapter 1]

Lab 1

2. Drawing, Coordinate Systems, and Selecting Objects.

[Chapter 2]

Lab 2

3. Drafting Settings and Display Control

[Chapter 2] page: 135-199

Lab 3

4. Layering Systems, Linetypes, Basic Dimensioning

[Chapter 3] read pages: 204-224

[Chapter 7] read pages: 481-514

Lab 4

5. Modifying Objects, Text, Tables and Charts

[Chapter 4] read pages: 249-299

Quiz #1

6. Constructing Geometric Figures & Object Selection

[Chapter 5] read pages: 341-362

Lab 5

7. Review for Midterm

8. Midterm Examination

9. Spring Recess

10. Block References

[Chapter 10] read pages: 677-698

Lab 6

11. Printing & Plotting

[Chapter 8] read pages:559-570

Lab 7

12. AutoCAD Design Center

[Chapter 12] read pages: 809-835

Lab 8

13. Hatching and Boundaries

[Chapter 9] read pages: 641-658

Lab 9

14. Selecting Objects, Utility and Inquiry Commands

[Chapter 6] read pages: 391-441

Lab 10

15. Review

16. Final Examination

17. Projects Evaluation

The instructor reserves the right to make adjustments by informing the class accordingly

VII. Methods of Instruction:

Lectures demonstrate drawing techniques with a hands on focus emphasizing the solution of drawing problems.

Drawing problems will be assigned during class. Each problem will be worth a total of 30 points.

VIII. Course Practices Required:

1. Attendance
2. Completion of lab drawing labs.
3. Passing examinations and quizzes.
4. Maintaining a portfolio of assignments.

IX. Instructional Materials:

Harnessing AutoCAD Release 2000 Stellman/Krishnan;

Delmar Publishers - Book Company

X. Methods Of Evaluating Student Progress:

Drawings will be graded according to standard drawing conventions provide on assignment sheets, notes and handouts.

60% Drawing Labs

25% Tests & Quizzes

15% Homework questions

100% Grade Total

A 90%

B 80%

C 70%

D 60%

F Below 60%

XI. OTHER COURSE INFORMATION:

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in the Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program.

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Other Information:

Effective beginning term: \_\_\_Fall 2004\_\_\_\_\_\_\_\_ end term \_\_ \_\_

(term) (year) (term) (year)

Syllabus prepared by: \_Joseph Cirone\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_1/04\_\_\_\_

Reviewed by Dept/program chair:\_\_Joseph Cirone\_\_\_\_\_ Date \_\_1/04\_\_\_\_\_\_\_\_\_\_

Approved by Dean: \_\_Joseph Kotowski\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_1/04\_\_\_\_

**XII. Instructor:**

Dave Geller

Chair, Manufacturing and CAD Technology

847-376-7707

dgeller@oakton.edu

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