

**SYLLABUS**

**CURRICULA IN WHICH COURSE IS TAUGHT:** Residential Design and Estimation

**COURSE NUMBER/TITLE:** CAD 200 Computer Aided Drafting and Design

**DIVISION:** Business & Engineering Technologies

**CREDIT HOURS:** 3 **HOURS/WK LEC:** 2 **HOURS/WK LAB:** 2 **LEC/LAB COMB:** 4

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**I. CATALOG DESCRIPTION:**

Part I - Teaches computer-aided drafting concepts and equipment designed to develop a general understanding of components of a typical CAD system and its operation.

Part II - Introduces a parametric 3D architectural software to students. This course focuses on the software applications and uses. Students will gain an understanding of building plan development and layouts as well as elevations, details, 3D modeling

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:**

The course is designed to enhance the computer knowledge the student already has and make the student capable of creating, editing and plotting quality CAD drawings.

**III. REQUIRED BACKGROUND/PREREQUISITES:**

It is recommended that the student have an introduction to computers, orthographic projection, sectioning, dimensioning, isometric drawing, intersections and development and Cartesian coordinates.

**IV. COURSE CONTENT:**

**INTRODUCTION TO 2D CAD SOFTWARE APPLICATIONS AND USES**

**INTRODUCTION TO 3D ARCHITECTURAL SOFTWARE APPLICATIONS AND USES.**

**V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE (Place X by all that apply)**

Communications

Computational and Computer Skills

Learning Skills

Understanding Culture/ Society

Critical Thinking

Understanding Science and Technology

Interpersonal Skills and

Wellness

## Human Relations

## VI. LEARNER OUTCOMES

## VII. EVALUATION

<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• Develop the ability to create basic Cad drawings.</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>
<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• The ability to modify Cad drawings.</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>
<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• Develop the ability to print scaled copies of Cad drawings.</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>
<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• Develop the ability to interpret floor plans</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>
<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• Develop the ability to create floor plans and developments from normal sketches and create 3D models from them.</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>
<p><b>Learner outcome</b></p> <ul style="list-style-type: none"> <li>• Understand and interpret wall specifications and create wall types</li> </ul>	<p><b>Evaluation method</b></p> <p>Lab performance and correct completion of assignments</p>