

COURSE SYLLABUS

Course Title:	Architectural Design & Modeling	Date submitted:	01/08 (08-38)		
Department:	Business and Technology				
Curriculum:	Technology Studies/Engineering Science				
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	CAD*252	Prerequisites:		
	Course Type:	L/B/X		C- or better in CAD 3D Architectural AutoCAD (CAD*204)	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio	Elective Type:	G	Corequisites:	
	E: English FA: Fine Arts HI: History HU: Humanities LAS: Liberal Arts & Sciences FL: Foreign Language M: Math S: Science SS: Social Science G: General	Credit Hours:	3		None
	Developmental: (yes/no)	No			
	Lecture:	3			
	Clinical:	0			
	Lab:	1			
	Studio:	0			
	Contact Hours:	Other:	0	Other Requirements:	
	TOTAL:	4	None		
	Class Maximum:	19			
	Semesters Offered:	F, Sp			
Ability-Based Education (ABE) Statement:	At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students' success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability.				
Catalog Course Description:	Enables students to develop advanced skills and understanding of the conceptual design process. Students will design mass models, building shells and cores, rendered images, landscapes, and architectural drawings. Modeling techniques are explored primarily using AutoCAD's Architectural Desktop.				
Topical Outline: List course content in outline format.	<ol style="list-style-type: none"> 1. Conceptual Design 2. Commercial Design 3. Structural Design 4. Designing with Mass Elements <ol style="list-style-type: none"> a. Primitives b. Arches 				

	<ul style="list-style-type: none"> c. Columns d. Profiles e. Roof Elements <p>5. Adding and Subtracting Mass Elements</p> <p>6. Designing</p> <ul style="list-style-type: none"> a. walls b. openings c. doors d. columns e. roofs f. stairs g. railings h. floors <p>7. Lighting</p> <p>8. Schedules</p> <p>9. Annotations</p> <p>10. Production Drawings</p> <p>11. Architectural Presentation</p>
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <p>COURSE:</p> <ul style="list-style-type: none"> 1. use currently available object-based CAD technology for design and documentation of architectural models 2. create mass models from architectural sketches 3. annotate construction documents according to currently acceptable standards 4. render three-dimensional models for aesthetic representation 5. create technical illustrations from complex models for demonstration purposes <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>TECHNOLOGY STUDIES ASSOCIATE DEGREE:</p> <ul style="list-style-type: none"> 3. apply the basic concepts of science and mathematics to the study of electricity and electronics, materials, computer-aided design (CAD), manufacturing, and construction 4. utilize appropriate computer software when creating technical drawings and presentations 5. create two-dimensional technical drawings, solid models, and surface models, according to current engineering standards 7. demonstrate technical competency in a functional area of technology. The specialization may include, but is not limited to: electricity, computer aided drafting and design, manufacturing, and construction <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Homework assignment</p> <p>Hands-on projects</p> <p>Quizzes</p> <p>Exams</p>

<p>Instructional Resources:</p> <p>List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: Computer Lab with CAD software</p> <p>Desired:</p>
<p>Textbook(s)</p>	<p>Refer to current academic year printout.</p>