



El Camino College
COURSE OUTLINE OF RECORD – Official

Course Acronym:	ARCH
Course Number:	100
Descriptive Title:	An Orientation to Architecture
Division:	Industry and Technology
Department:	Architecture
Course Disciplines:	Architecture
Catalog Description:	This course is an orientation to architecture for the beginning student. The student will be taught how to create architecture, how to understand architecture, and how it shapes the social and urban environment. Education, career opportunities and options will be discussed.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	Eligibility for English 1A
Enrollment Limitation:	
Hours Lecture (per week):	1
Hours Laboratory (per week):	0
Outside Study Hours:	2
Total Course Hours:	18
Course Units:	1
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	Prior to July 1992
Transfer UC:	No
Effective Date:	
General Education: ECC	
Term:	
Other:	
CSU GE:	
Term:	
Other:	

IGETC:	
Term:	
Other:	
Student Learning Outcomes:	<p>SLO #1 Urban and Social Environment</p> <p>Given lecture information, worksheet examples and in-class discussion, students will be able to demonstrate how architecture shapes the urban and social environment on global and local scales.</p> <p>SLO #2 Becoming an Architect</p> <p>Given lecture information, worksheet examples, and in-class discussion, students will be able to demonstrate knowledge of the education necessary, internship and licensing procedures to become a professional architect.</p> <p>SLO #3 Careers Connected to Architecture</p> <p>Given lecture Information and classroom discussions, students will have knowledge of parallel vocations that a student with an education in architecture could pursue after their education is complete, if they choose not to pursue a career as an architect.</p>
Course Objectives:	<ol style="list-style-type: none"> 1. Explain the role of the architect in contemporary culture. 2. Compare and contrast community college and university architecture program curriculum. 3. Identify the various architectural drawing types. 4. Analyze sustainability in design. 5. Discuss contemporary issues in architecture. 6. Understand the intern development program / architectural registration exam and licensure process in architecture. 7. Discuss the various consultants' architects use and understand their roles in project delivery. 8. Understand building systems. 9. Assemble a portfolio for architectural university admission demonstrating various graphic and artistic abilities. 10. Explain various career occupations within the field of architecture. 11. Analyze the architectural process from design through construction. 12. Assess the role of computers in the design and documentation of buildings. 13. Analyze the different building typologies. 14. Discuss history of architecture and the significance of important buildings within the architectural context.
Major Topics:	<p>I. THE PROFESSION OF ARCHITECTURE (2 hours, lecture)</p> <ol style="list-style-type: none"> A. Teaching philosophy <ol style="list-style-type: none"> 1. Learn by doing 2. Learn from history B. History C. Practice <p>II. COMMUNITY COLLEGE ARCHITECTUAL EDUCATION (1 hour, lecture)</p> <ol style="list-style-type: none"> A. Vocational certificates leading to jobs in the industry

- B. Foundational educational requirements for transfer
- C. Architecture university programs
- D. Philosophies of various schools
- E. Undergraduate and graduate programs

III. IDENTIFYING THE VARIOUS ARCHITECTURAL DRAWING TYPES (2 hours, lecture)

- A. Site plan
- B. Plans
- C. Elevations
- D. Sections
- E. Details

IV. SUSTAINABILITY IN DESIGN (2 hours, lecture)

- A. Passive solar design systems, and strategies to design in an environmentally sensitive approach
- B. Active systems and technologies for buildings

V. CONTEMPORARY ISSUES IN ARCHITECTURE (1 hour, lecture)

- A. Urban impacts of Architecture
- B. Social impacts of Architecture

VI. ARCHITECT REGISTRATION EXAMINATION (1 hour, lecture)

- A. Various written and graphic exams
- B. Intern Development Program
- C. National Architectural Accrediting Boards

VII. VARIOUS CONSULTANTS ARCHITECTS USE (2 hours, lecture)

- A. Their roles in project delivery
- B. How an architect coordinates all their various consultants in a project

VIII. BUILDING SYSTEMS OVERVIEW (1 hour, lecture)

- A. Determining the concept
- B. Diagramming the building
- C. Analyzing functions

IX. PORTFOLIO DESIGN (1 hour, lecture)

- A. Preparing a portfolio for admission to an architecture school
- B. Preparing a portfolio for job application as an architect

X. CAREER OPPORTUNITIES (1 hour, lecture)

- A. Architect types
- B. Teacher
- C. Urban designer

	<p>D. Interior designer</p> <p>XI. DESIGN PROCESS (1 hour, lecture)</p> <p>A. How different architects design B. What is a "concept" C. Evolving a concept into a building</p> <p>XII. INDUSTRY SOFTWARE, TECHNOLOGY, AND COMPUTER AIDED DESIGN (1 hour, lecture)</p> <p>A. Software programs available B. Hand drafting versus computer drafting</p> <p>XIII. ANALYZING THE DIFFERENT BUILDING TYPOLOGIES (1 hour, lecture)</p> <p>A. Reviewing all the different types of building usages B. Understanding the functions and factors that inform those buildings</p> <p>XIV. HISTORY OF ARCHITECTURE (1 hour, lecture)</p> <p>A. The significance of important buildings within the Architectural context B. Understanding how advances in Architecture and technology has helped society develop throughout history</p>
Total Lecture Hours:	18
Total Laboratory Hours:	0
Total Hours:	18
Primary Method of Evaluation:	1) Substantial writing assignments
Typical Assignment Using Primary Method of Evaluation:	<p>1. Create a five-paragraph case study essay presentation on a famous architect, documenting his or her life, schools attended, and their major buildings and projects. Submit essay to the instructor.</p> <p>2. Architecture and Social Responsibilities</p> <p>Discussion Prompt</p> <p>Architecture should be rooted in time and place. What does this mean? Ask yourself this question, when is architecture appropriate and when, perhaps is it not. What are the local, community, and cultural standards where a particular building is being proposed? Is it safe, well-constructed, and reflective of the community it will become a part of? Use these questions as thought starters. Does it embrace the culture or completely negate it? Does it inspire? Is it aspirational? Research two projects where one type of Architecture is appropriate and research a second one where you feel it is not, and list your reasoning for both arguments. Submit a five-paragraph essay to the instructor</p>

<p>Critical Thinking Assignment 1:</p>	<p>1. Architecture Design Critique</p> <p>Discussion Prompt</p> <p>Look at the image and floor plan of a well-known contemporary work in architecture. Give a critical assessment in a five-paragraph essay based on the principals of design discussed focused on their thoughts on what they like, do not like, find successful, found interesting, etc. with respect to the design, materials, site, and/or project. As architects and designers, it is important to be able to critically evaluate your own work. Find yourself in professional work settings where you will be working with a team and be able to communicate your thoughts in such a way that they do not seem as if they are personal opinions but professional backed with rationale. Submit essay to the instructor.</p> <p>2. Sustainability in Architecture</p> <p>Discussion Prompt</p> <p>After a discussion on sustainability, post your thoughts on a well-known approach of an architect practicing today in a five-paragraph essay. Architecture is a mentoring profession. What this means is you learn from your predecessors. Someone who has been doing it will show you how to get started and open up a world of possibilities with respect to how to start a project, new ways of thinking of approaching a design. Because after all, design, is problem solving. You as an Architect will be designing a solution for a problem. Submit essay to the instructor.</p>
<p>Critical Thinking Assignment 2:</p>	<p>3. Architectural History</p> <p>Discussion Prompt</p> <p>For this discussion, post a five paragraph essay on the thoughts and approaches of the past 30 years of architectural history by selecting an architect, building, and discuss it thru an essay presentation on the architect, documenting his or her life, schools attended, and their major buildings and projects. Submit essay to the instructor.</p> <p>4. Architecture and You</p> <p>Discussion Prompt</p> <p>Create a five-paragraph essay about what you find most compelling about Architecture. We have been exploring all aspects of the world of Architecture. This is a moment where you can pause and share your perspective. Submit essay to the instructor.</p>
<p>Other Evaluation Methods:</p>	<p>Term or Other Papers Multiple Choice Discussions Architectural Sketches Other (specify): Portfolio design</p>
<p>Instructional Methods:</p>	<p>Lecture Multimedia presentations</p>

If other:	Case Studies Visual aids: models and drawings
Work Outside of Class:	Required reading Study Written work (such as essay/composition/report/analysis/research)
If Other:	
Up-To-Date Representative Textbooks:	Lee Waldrep, <u>BECOMING AN ARCHITECT - A GUIDE TO CAREERS IN DESIGN</u> , 3rd ed., John Wiley and Sons, 2015 Discipline Standard
Alternative Textbooks:	Francis D. K. Ching. <u>INTRODUCTION TO ARCHITECTURE</u> . John Wiley and Sons, 2012. Discipline Standard
Required Supplementary Readings:	
Other Required Materials:	Miscellaneous drawing and art materials
Requisite:	
Category:	
Requisite course(s): List both prerequisites and corequisites in this box.	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
Requisite course:	Eligibility for English 1A
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	Ability to read architectural material. Summarize, analyze, evaluate, and synthesize college-level texts. Ability to compose a written report. Write a well-reasoned, well-supported expository essay that demonstrates application of the academic writing process.
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding	

course objective under each skill(s). If applicable	
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Michael Stallings
Date:	03/14/2016
Original Board Approval Date:	01/25/1983
Last Reviewed and/or Revised by:	Mina Greas
Date:	05/30/2022
Last Board Approval Date:	11/21/2022