

# ARCH 202: SECOND YEAR DESIGN 2

---

**Originator**

zbecker

**Co-Contributor(s)****Name(s)**

Bitanga, Bert

**Justification / Rationale**

New Curriculum for the College of the Desert/Cal Poly 2+3 Architecture partnership that will bring a full Architecture Professional degree to the College of the Desert West Valley campus.

**Effective Term**

Spring 2022

**Credit Status**

Credit - Degree Applicable

**Subject**

ARCH - Architecture

**Course Number**

202

**Full Course Title**

Second Year Design 2

**Short Title**

SECOND YEAR DESIGN 2

**Discipline****Disciplines List**

Architecture

**Modality**

Face-to-Face

**Catalog Description**

A continuation of basic design exercises focusing on simple buildings and their relationship to site and program. Introduction to architectural programming and the influence of context. Students will meet with an instructor in a lab setting to conduct research and to develop an architectural project. Typically the studio will follow a structure of 1) research and analysis of the design problem 2) development of a design idea 3) iterative development that incorporates material studies; additional research, and external feedback and 4) representation of project through drawings, models and other media.

**Schedule Description**

A continuation of basic design exercises focusing on simple buildings and their relationship to site and program. Introduction to architectural programming and the influence of context. Prerequisite: ARCH 017 Co-requisite: ARCH 220

**Lecture Units**

1

**Lecture Semester Hours**

18

**Lab Units**

2

**Lab Semester Hours**

108

**In-class Hours**

126

**Out-of-class Hours**

36

**Total Course Units**

3

**Total Semester Hours**

162

**Prerequisite Course(s)**

Prerequisite: ARCH 017 Co requisite: ARCH 220

**Required Text and Other Instructional Materials****Resource Type**

Book

**Author**

Arnheim, Rudolf

**Title**

The Dynamics of Architectural Form: Based on 1975 Mary Biddle Lectures at the Cooper Union.

**Publisher**

University of California Press.

**Year**

1978

**ISBN #**

978-0520261259

**Resource Type**

Book

**Open Educational Resource**

No

**Author**

Bassler, Bruce L.

**Title**

Architectural Graphic Standards

**Edition**

Student 9th

**Publisher**

John Wiley and Sons

**Year**

2008

**ISBN #**

9781118909508

**For Text greater than five years old, list rationale:**

This course covers historical perspective and materials from older texts and articles are appropriate.

**Class Size Maximum**

26

**Entrance Skills**

Plan energy efficient design strategies.

**Requisite Course Objectives**

ARCH 017-Plan energy efficient design strategies.

**Entrance Skills**

Develop an understanding of the relationship between site planning and envelop manipulation.

**Requisite Course Objectives**

ARCH 017-Demonstrate an understanding of the relationship between site planning and envelop manipulation

**Entrance Skills**

Analyze the appropriate design and planning solutions(s) for entry to "design competition".

**Requisite Course Objectives**

ARCH 017-Analyze the appropriate design and planning solution(s) for entry to "design competition."

**Entrance Skills**

Demonstrated ability to test alternative outcomes against relevant criteria and standards.

**Requisite Course Objectives**

ARCH 220-Demonstrate ability to test alternative outcomes against relevant criteria and standards.

**Entrance Skills**

Demonstrated understanding of basic architectural elements including program organization and sequence.

**Requisite Course Objectives**

ARCH 220-Demonstrated understanding of basic architectural elements including program organization and sequence.

**Entrance Skills**

Demonstrated ability to examine and comprehend the fundamental principles present in relevant architectural precedents.

**Requisite Course Objectives**

ARCH 220-Demonstrated ability to examine and comprehend the fundamental principles present in relevant architectural precedents.

**Course Content**

- Case Studies
- Formal and Conceptual Design
- Demographics, Environmental and Social Data
- Physical constraints of a site
- Placement configuration of the architectural project
- Design alternatives
- Site and Program
- Project Communication

**Lab Content**

- Research and analysis of the design problem
- development of a design idea

- iterative development that incorporates material studies, additional research and external feedback
- representation of project through drawings, models and other media

### Course Objectives

	Objectives
Objective 1	Demonstrate an understanding of the basic principles of organizing spaces to be used by people.
Objective 2	Be able to identify and prioritize components of the building program, determine spatial and functional relationships of program components, and be able to graphically represent program relationships through diagrams.
Objective 3	Be able to evaluate site-specific environmental and socio-cultural opportunities and site-specific environmental constraints and to evaluate relevant qualitative attributes of a site as they relate to a given program.
Objective 4	Apply site and program analysis to compose a contextually relevant building design.
Objective 5	Demonstrate basic understanding of life-safety and accessibility requirements.
Objective 6	Demonstrate knowledge of design generated from formal/organizational strategies, addressing site and programmatic constraints.

### Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Evaluate abstract design concepts from diverse data analytics, relative program criteria, and building standards.
Outcome 2	Develop the use of formal, organizational, and environmental principles to inform two and three-dimensional design.
Outcome 3	Recognize environmental and socio-cultural opportunities, site-specific environmental constraints, and graphical representations in site analysis and site programming.

### Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Collaborative/Team Participation	One on one and team feedback of student projects.
Lecture	Formal and informal in class presentations of students designs to faculty and outside critics.
Discussion	Presentation of topics in context.
Other (Specify)	Discussion of assigned reading and written response exercises.
	a.Lecture, films, slides, overhead projections b.Drawing site plans, floor plans, elevations, sections and details c.Axonometric and perspective drawings d.Development of models: wood, metal, Plexiglas e.Title 24 (State of California) Energy Calculations: micro-computer workshop f.Discussion of reading assignments g.Group critiques and design 'pin-ups' h.Individual desk critiques on all design strategies

### Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Portfolios	Completion of design proposal report document.	In and Out of Class
Critiques	Individual desk critique and class critique of student projects.	In Class Only
Student participation/contribution	Participation in discussion of the course topics and readings.	In Class Only
Group activity participation/observation	Midterm and final presentations of research and design outcomes to faculty and outside critics.	In and Out of Class
Computational/problem-solving evaluations	Site analysis and site design assignments.	In and Out of Class

Other	a. Written assignments b. Lecture and studio participation c. Design assignments d. Quality and participation in team assignments e. Clarity and sophistication of final design project; f. Attendance g. Final 'Jury' presentation (Design Competition Project)	In and Out of Class
College level or pre-collegiate essays	Short paper describing studio project research, goals, and outcome.	Out of Class Only

## Assignments

### Other In-class Assignments

1. Reading assignments from required text and/or instructor "handouts"
2. Present site plans, floor plan, elevations and sections of designs
3. Present perspective and axonometric drawings of designs
4. Develop and build models of wood, metal and plexiglass
5. Prepare for group critiques (pin-ups) of design projects

### Other Out-of-class Assignments

1. Reading assignments from required text and/or instructor "handouts"
2. Prepare site plans, floor plan, elevations and sections of designs
3. Prepare perspective and axonometric drawings of designs
4. Develop and build models of wood, metal and plexiglass
5. Prepare for group critiques (pin-ups) of design projects

### Grade Methods

Letter Grade Only

## Comparable Transfer Course Information

### University System

CSU

### Campus

California State Polytechnic University, Pomona

### Course Number

ARC 2021L

### Course Title

Second Year Design Laboratory

### Catalog Year

2015

### Rationale

This COD course is a copy of the Cal Poly course and part of our four year 2 + 3 agreement with CSU Poly, Pomona.

## MIS Course Data

### CIP Code

04.0901 - Architectural Technology/Technician.

### TOP Code

020100 - Architecture and Architectural Technology

### SAM Code

C - Clearly Occupational

**Basic Skills Status**

Not Basic Skills

**Prior College Level**

Not applicable

**Cooperative Work Experience**

Not a Coop Course

**Course Classification Status**

Credit Course

**Approved Special Class**

Not special class

**Noncredit Category**

Not Applicable, Credit Course

**Funding Agency Category**

Not Applicable

**Program Status**

Stand-alone

**Transfer Status**

Transferable to CSU only

**General Education Status**

Y = Not applicable

**Support Course Status**

N = Course is not a support course

**Allow Audit**

No

**Repeatability**

No

**Materials Fee**

No

**Additional Fees?**

No

**Files Uploaded****Attach relevant documents (example: Advisory Committee or Department Minutes)**

ARCH 202-CO Approval Ltr 0528.pdf

**Approvals****Curriculum Committee Approval Date**

4/15/2021

**Academic Senate Approval Date**

4/22/2021

**Board of Trustees Approval Date**

5/21/2021

**Chancellor's Office Approval Date**

5/28/2021

**Course Control Number**

CCC000625148