

# BACHELOR OF ARCHITECTURE

## Program Learning Objectives

1. Think critically and creatively about architectural problems.
2. Use a diverse range of communication skills including writing, speaking, drawing, and modeling to think about and convey architectural ideas.
3. Understand and apply the technical aspects of architecture, while considering the environmental impact of design decisions.
4. Synthesize a wide range of variables that contribute to an integrated design solution.
5. Understand the professional practice of architecture.
6. Understand architecture in relation to the larger world of knowledge.
7. Work productively with diverse groups including design professionals, clients, and users.
8. Use architectural knowledge and skills to make a positive contribution to society.
9. Make reasoned decisions based on an architectural understanding of ethics, diversity, and sustainability.
10. Engage in lifelong learning as a professional.

## Degree Requirements and Curriculum

In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (<https://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext>) section of this catalog, including:

- 60 units of upper-division courses
- 2.0 GPA
- Graduation Writing Requirement (GWR)
- U.S. Cultural Pluralism (USCP)

Note: No Major or Support courses may be selected as credit/no credit.

### MAJOR COURSES

ARCH 101	Survey of Architectural Education and Practice (1, 1, 1) <sup>1</sup>	3
ARCH 131 & ARCH 132 & ARCH 133	Design and Visual Communication 1.1 and Design and Visual Communication 1.2 and Design and Visual Communication 1.3	12
ARCH 207	Architectural Technology Fundamentals 2.3	4
ARCH 217	History of World Architecture: Prehistory - Middle Ages (C1) <sup>2</sup>	4
ARCH 218	History of World Architecture: Middle Ages - 18th Century (GE Electives) <sup>2</sup>	4
ARCH 219	History of World Architecture: 18th Century - Present	4
ARCH 241 & ARCH 242	Architectural Technology Fundamentals 2.1 and Architectural Technology Fundamentals 2.2	8

ARCH 251 & ARCH 252 & ARCH 253	Architectural Design 2.1 and Architectural Design 2.2 and Architectural Design 2.3	15
ARCH 307	Architectural Systems Integration 3.2	4
ARCH 341 & ARCH 342	Architectural Systems Integration 3.1 and Architectural Systems Integration 3.3	8
ARCH 351 & ARCH 352 & ARCH 353	Architectural Design 3.1 and Architectural Design 3.2 and Architectural Design 3.3	15
Select from the following:		4
ARCH 420	Seminar in Architectural History, Theory and Criticism	
ARCH 320	Topics in Architectural History (Upper-Division C) <sup>2</sup>	
ARCH 443	Issues in Contemporary Professional Practice	4
ARCH 451 & ARCH 452 & ARCH 453	Architectural Design 4.1 and Architectural Design 4.2 and Architectural Design 4.3	15
ARCH 481	Senior Architectural Design Project (5, 5, 5)	15
ARCH 492	Senior Design Thesis	3
<b>SUPPORT COURSES</b>		
ARCE 211	Structures I	3
ARCE 212	Structures II	3
ARCE 226	Introduction to Structural Systems	3
ARCE 315	Introduction to Structural Design	4
ARCE 316	Structural Integration in Architecture	4
or		
ARCH 470	Selected Advanced Topics (Topic: Structural Integration in Architecture)	
EDES 123	Principles of Environmental Design (E) <sup>2</sup>	4
MATH 141	Calculus I (B4) <sup>2</sup>	4
MATH 182	Calculus for Architecture and Construction Management (GE Electives) <sup>2,3</sup>	4
PHYS 121	College Physics I (B1) <sup>2</sup>	4
or PHYS 141		General Physics I
PHYS 122	College Physics II (B1 & B3) <sup>2,4</sup>	4
or PHYS 142		General Physics II
or Any GE Areas B1 & B3 Course		
or Any GE Areas B2 & B3 Course		
Professional Electives		18
May include: Any EDES, ARCH, ARCE, CM, CRP, LA or ART course. Any course included in any College of Architecture and Environmental Design minor, or the ART minor.		
<b>GENERAL EDUCATION (GE)</b>		
(See GE program requirements below.)		48
<b>FREE ELECTIVES</b>		
Free Electives <sup>4</sup>		0
<b>Total units</b>		<b>225</b>

- <sup>1</sup> Transfer students may take additional ARCH course(s) to substitute for ARCH 101. Contact the department for details.
- <sup>2</sup> Required in Major or Support; also satisfies General Education (GE) requirement.
- <sup>3</sup> MATH 142 Calculus II substitutes for MATH 182.
- <sup>4</sup> If a General Education (GE) course is used to satisfy a Major or Support requirements, additional units of Free Electives may be needed to complete the total units required for the degree.

## General Education (GE) Requirements

- 72 units required, 24 of which are specified in Major and/or Support.
- If any of the remaining 48 units is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.
- See the complete GE course listing (<https://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext>).
- A grade of C- or better is required in one course in each of the following GE Areas: A1 (Oral Communication), A2 (Written Communication), A3 (Critical Thinking), and B4 (Mathematics/Quantitative Reasoning).

<b>Area A</b>	<b>English Language Communication and Critical Thinking</b>	
A1	Oral Communication	4
A2	Written Communication	4
A3	Critical Thinking	4
<b>Area B</b>	<b>Scientific Inquiry and Quantitative Reasoning</b>	
B1	Physical Science (4 units in Support) <sup>1</sup>	0
B2	Life Science	4
B3	One lab taken with either a B1 or B2 course	
B4	Mathematics/Quantitative Reasoning (4 units in Support) <sup>1</sup>	0
Upper-Division B		4
<b>Area C</b>	<b>Arts and Humanities</b>	
Lower-division courses in Area C must come from three different subject prefixes.		
C1	Arts: Arts, Cinema, Dance, Music, Theater (4 units in Major) <sup>1</sup>	0
C2	Humanities: Literature, Philosophy, Languages other than English	4
Lower-Division C Elective - Select a course from either C1 or C2		4
Upper-Division C		4
<b>Area D</b>	<b>Social Sciences - Select courses in Area D from at least two different prefixes</b>	
D1	American Institutions (Title 5, Section 40404 Requirement)	4
D2	Lower-Division D	4
Upper-Division D		4
<b>Area E</b>	<b>Lifelong Learning and Self-Development</b>	
Lower-Division E (4 units in Support) <sup>1</sup>		0

<b>Area F</b>	<b>Ethnic Studies</b>	
F	Ethnic Studies	4
<b>GE Electives in Areas B, C, and D</b>		
Select courses from two different areas; may be lower-division or upper-division courses.		
GE Electives (8 units in GE Electives fulfilled by 4 units in Major and 4 units in Support) <sup>1</sup>		0
<b>Total units</b>		<b>48</b>

<sup>1</sup> Required in Major or Support; also satisfies General Education (GE) requirement.