Architectural Technology Certificate

This certificate aims to develop the design and job-related skills necessary for entry into the professional field of architecture. The curriculum focuses on developing critical thinking and problem-solving abilities as a means to creative thinking.

Total Units: 39

First Year

Semester 1

8.5 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
ARCH 300 Introduction to Design Professions	2		F, S
ARCH 320 Architectural Design and Communication I	3.5	Co-req: ARCH 325	F, S(P)
ARCH 325 Architectural Digital Design and Communication I	3	Co-req: ARCH 320	F, S

Semester 2

9.5 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
ARCH 321 Architectural Design and Communication II	3.5	Pre-req: ARCH 320, Co-req: ARCH 326	S(P)
ARCH 326 Architectural Digital Design and Communication II	3	Co-req: ARCH 321	S
ARCH 342 Introduction to Green Buildings	3		S

Year 2

Semester 3

11 Units

Career Options/Outlook:

Architects plan and design structures, such as housing, office buildings, theaters, schools, and other physical property. Typical tasks may include designing/rendering, preparing scale drawings, Building Information Modeling (BIM) models, using computer programs or other tools, planning or designing structures in accordance with environmental, safety, or other regulations; directing activities of technicians engaged in preparing drawings or specification documents; preparing contract documents for building contractors; preparing information regarding design, structure specifications, materials, color, equipment, estimated costs, or construction time. **Career opportunities may require more than two years of college study.**

A sample of reported job titles:

Architect; Architectural Project Manager; Design Architect; Principal Architect; Project Architect; Planner; Specifications Writer

Projected job openings in

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
ARCH 322 Architectural Design and Communication III	3.5	Prereq: ARCH 320	F(P)
ARCH 329 Architectural Working Drawings	4	Advisory: ARCH 321 & 326	F(O)
ARCH 334 Advanced Design in Three Dimensions	3.5	Prereq: ARCH 320, Advisory: ARCH 321	F

Semester 4

10 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
ARCH 330 Design Fundamentals	3.5	ARCH 320	S(P)
ARCH 332 Design Awareness	3.5	ARCH 320 & 321	S(P)
CMT 310 Materials of Construction	3	Advisory: CMT 300	F, S

^You must have passed the prerequisite course(s) with a “C” or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (P) = partially online

California (2024-2034):

980

Projected growth in California (2024-2034):

8% growth

Median Salary in California with advanced degree (2025):

$108,540/yr

Source:

https://www.onetonline.org/link/summary/17-1011.00

Program notes:

College preparation for a career in architecture spans several disciplines and includes the development of knowledge and competencies in areas such as: architectural design; visual communication and drawing; computer modeling and rendering; construction methods and materials; energy systems and an understanding of human needs and sociology as they relate to the built environment.

Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the Zero Textbook Costs page of the college website.

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