

LIST C: (3 units)

ANTH 110	Indians of North America (3)
ANTH 112	Cultures of Mexico (3)
COMM 176	Intercultural Communication (3)
GEOG 106	World Regional Geography (3)
PHIL 106	World Religions (3)
SOC 106	Race and Ethnicity (3)

Total units	20–21
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- * Students planning to transfer to a four-year college or university should complete courses specific to transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.

ARCHITECTURE

SCHOOL OF BUSINESS AND TECHNOLOGY

DEAN: Mink Stavenga, DBA, Office 470K, 619-482-6569

FACULTY: Thomas Rogo, M.Arch ; Diana DelaTorre, M. Arch II

DEPARTMENT CHAIR: Marie Vicario-Fisher, M.S., M.P.H.

GENERAL DESCRIPTION

Architecture is the study of creating livable and workable environments balancing social, political, economic, technical, and aesthetic requirements with human needs. Although building design is the ultimate goal of the program of study, knowledge about how people affect environments and manage resources in the creation of structure is of major importance. Architects rely on an understanding of a diversity of subjects including mathematics, physics, design, graphics, engineering, architecture history, visual art, social sciences, and humanities.

CAREER OPTIONS

Below is a sample of the career options available to the architecture major. A few of these require an associate degree, some require a bachelor's degree, and most require a graduate-level degree: architect, urban planner, environmental researcher, architectural technician, vocational teacher, college instructor, landscape architect or technician, building contractor, construction supervisor, CAD specialist, architectural engineer, construction manager, drafting technician, and the allied professions such as business, marketing, and interior design.

DEGREE/CERTIFICATE OPTIONS

MAJOR CODE

Associate in Science Degree: Transfer Preparation

Architecture	01940
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Associate in Science Degree: Career/Technical

Architecture Technology	02840
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Certificates of Achievement

Architecture Technology	A2842
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Architecture Technology—Advanced	02841
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Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

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The program below is undergoing modification and the modification will be placed into an addendum upon Chancellor's Office approval - see your counselor for further information and visit the college website under <http://www.swccd.edu/catalog> link for the latest addenda updates.

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ASSOCIATE IN SCIENCE DEGREE

ARCHITECTURE



ASSOCIATE IN SCIENCE DEGREE

TRANSFER PREPARATION * (MAJOR CODE: 01940)

Designed to provide the student with the creative problem-solving skills and critical thinking processes necessary to successfully complete upper-division baccalaureate work leading to the professional bachelor of architecture degree. The curriculum fulfills most of the first and second year requirements at some CSU, US, and other baccalaureate institutions.

Academic placement at the transfer institution is based upon evaluation of a portfolio of the student's work. Students will be required to develop a portfolio of their work for purposes of evaluation by the transfer institution. The courses listed are the architecture courses required to obtain the associate degree in architecture. Students wishing to transfer to the California State University should follow, General Education Breadth Requirement California State University. Students should review specific course requirements of the transfer institution and consult with a counselor as to which courses taken at Southwestern College will articulate to their chosen college.



Program Student Learning Outcome Statement:

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

FIRST SEMESTER

ARCH 110	Freehand Drawing for Designers	3
ARCH 115	Graphic Communication for Architects and Designers	3
ARCH 150	Architectural Design I	5

SECOND SEMESTER

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	3

THIRD SEMESTER

ARCH 200	Introduction to Computer Aided Design (3) OR	3
ARCH/SES 201	Beginning Building Information Modeling (3)	
ARCH 235	Structures	3
ARCH 252	Architectural Design III	3
ARCH 265	Architectural Practice II	3

FOURTH SEMESTER

ARCH 222	Environmental Controls	2
ARCH 253	Architectural Design IV	3
ARCH 266	Architectural Practice III	2

Total units **39**

Recommended Electives: ARCH 204, 205, 208, 210

To earn an associate degree, additional general education and graduation requirements must be completed. See page 64.

- * Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center. See catalog TRANSFER COURSES INFORMATION section on page 45 for further information.

ARCHITECTURE TECHNOLOGY**ASSOCIATE IN SCIENCE DEGREE
CAREER/TECHNICAL (MAJOR CODE: 02840)**

Designed to provide the student with the skills and technical knowledge required for employment as technicians in the environmental design departments of architecture, landscape architecture, urban planning, and environmental research. Students also are placed within the building construction industry and its allied professions.

Program Student Learning Outcome Statement:

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.



FIRST SEMESTER

ARCH 110	Freehand Drawing	3
ARCH 115	Architectural Graphics	3
ARCH 150	Architectural Design I	5

SECOND SEMESTER

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

THIRD SEMESTER

ARCH 200	Introduction to Computer Aided Design (3) OR	3
ARCH/SES 201	Beginning Building Information Modeling (3)	
ARCH 235	Structures	3
ARCH 265	Architectural Practice II	2

FOURTH SEMESTER

ARCH 209	Construction Surveying	3
ARCH 210	World Architecture II	3
ARCH 222	Environmental Controls	2
ARCH 266	Architectural Practice III	2

Total units **37**

To earn an associate degree, additional general education and graduation requirements must be completed. See page 64.

CERTIFICATES**ARCHITECTURE TECHNOLOGY****CERTIFICATE OF ACHIEVEMENT****CAREER/TECHNICAL (MAJOR CODE: A2842)****Program Student Learning Outcome Statement:**

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
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- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: www.swccd.edu/gainfulemployment.

FIRST SEMESTER

ARCH 115	Graphic Communication for Architects and Designers	3
ARCH 150	Architectural Design I	5

SECOND SEMESTER

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	3



THIRD SEMESTER

ARCH 200	Introduction to Computer Aided Design	3
ARCH 235	Structures	3
ARCH 265	Architectural Practice II	3

FOURTH SEMESTER

ARCH 201	Beginning Building Information Modeling	3
ARCH 222	Environmental Controls	2
Total units		31

Recommended Electives: ARCH 204, 205

ARCHITECTURE TECHNOLOGY: ADVANCED

CERTIFICATE OF ACHIEVEMENT**CAREER/TECHNICAL (MAJOR CODE: 02841)****Program Student Learning Outcome Statement:**

- Develop and expand their technological skill-set and professional practices through the use of state-of-the-art equipment and software consistent with our profession.
- Enhance their international perspective by direct involvement in classroom discussions, design programs, design projects, historical design issues and cultural and social perspectives that are global in scope, including issues of sustainability and environmental sensitivity.
- Develop a greater sense of self-awareness and interpersonal skills by required participation in team projects.
- Further enhance critical communication skills by requiring them to express not only their solution to design problems, but also demonstrating the process of arriving at these solutions, orally, graphically, and three-dimensionally to professionals and fellow students.
- Develop critical thinking skills in a problem/project based curriculum that requires solving spatial, social, engineering and sustainable design problems by developing creative and individual solutions.

GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation.”

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: www.swccd.edu/gainfulemployment.

FIRST SEMESTER

ARCH 110	Freehand Drawing for Designers	3
ARCH 115	Graphic Communication for Architects and Designers	3
ARCH 150	Architectural Design I	5

SECOND SEMESTER

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

THIRD SEMESTER

ARCH 200	Introduction to Computer Aided Design (3) OR	3
ARCH 201	Beginning Building Information Modeling (3)	
ARCH 235	Structures	3
ARCH 265	Architectural Practice II	2

FOURTH SEMESTER

ARCH 209	Construction Surveying	3
ARCH 210	World Architecture II	3
ARCH 222	Environmental Controls	2
ARCH 266	Architectural Practice III	2

ADDITIONAL COURSES

ARCH 114	Advanced Architectural Rendering	3
ARCH 205	Advanced Architectural CAD	3
Total units		43

