

ASSOCIATE IN SCIENCE DEGREE

In general, the Associate in Science degree is a two-year occupational degree that prepares students for a variety of career and technical fields.

Associate in Science Degree - Industrial Design Engineering

Degree S0331

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing.

Portfolio or prototype development is required on each of the semester levels. In the Level Three certificate and AS Degree course work, this will culminate in a final "senior project," which is a portfolio that includes two and three-dimensional design, documentation (accountability measures), presentation, and fabrication. This project will demonstrate the student's mastery of the concepts and methodologies learned during the program.

Students desiring a Bachelor's Degree should consult with a counselor or an educational advisor to discuss transferability of courses.

Required Courses:

IDE 110	Design Foundation - Visual Literacy	3.0
IDE 120	Intro to CAD	3.0
IDE 130	Shop Processes	3.0
IDE 150	Design Foundations	3.0
IDE 160	Intermediate CAD	3.0
IDE 170	Introduction to Prototyping	3.0
IDE 210	Advanced Media	3.0
IDE 220	Advanced CAD	3.0
IDE 230	Intro to Mechanical Principles	3.0
IDE 250	Product Design and Viability	6.0
IDE 270	Manufacturing Processes and Materials	3.0
	Total Units	36.0

Recommended Electives:

ELEC 50A	Electronic Circuits (DC)
ELEC 81	Laboratory Studies in Electronics Technology
MATH 51	Elementary Algebra
PHYS 1	Physics 1
WELD 30	Metal Sculpture
WELD 40	Introduction to Welding

ASSOCIATE IN ARTS FOR TRANSFER/ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

The associate degrees for transfer are designed to provide students with a seamless transition for transfer with junior standing somewhere in the CSU system.

For further information regarding degree programs, please visit the Mt. SAC catalog.

Associate in Science in Mathematics for Transfer

Degree S0333

Upon successful completion of Mt. San Antonio College's Associate in Science in Mathematics for Transfer degree requirements, the student will have demonstrated understanding of differential and integral calculus of one and several variables including infinite series, vector analysis, partial derivatives and transcendental functions, as well as demonstrating knowledge of linear algebra and differential equations. This coursework will satisfy the lower division mathematics requirements at the California State University. Guaranteed admission with junior status to the CSU system will be granted in mathematics (or possibly statistics).

To earn an Associate in Science in Mathematics for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 14.0 units

MATH 180	Calculus and Analytic Geometry	4.0
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MATH 181	Calculus and Analytic Geometry	5.0
MATH 280	Calculus and Analytic Geometry	5.0

List A: 5.0 units

MATH 285	Linear Algebra and Differential Equations	5.0
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List B (select one): 3.0 - 5.0 or more units

CSCI 140	C++ Language and Object Development	4.0
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MATH 110	Elementary Statistics	3.0
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or

MATH 110H	Elementary Statistics - Honors	3.0
MATH 120	Finite Mathematics	3.0
PHYS 4A	Engineering Physics	5.0

Total Units for Major: 22.0 - 24.0

Courses may be double-counted with either CSU-GE or IGETC.

Associate in Arts in Art History for Transfer

Degree A0330

The academic discipline of Art History involves the study of visual objects as both works of art and as artifacts of the historical and cultural contexts in which they were created. The Associate in Arts in Art History for Transfer (AA-T) will provide the student with a solid foundation in both European and non-European art and visual culture from the periods of pre-history through modern. The degree program requires students to critically analyze visual objects from a variety of perspectives, utilizing various modes of analysis.

To earn an Associate in Arts in Art History for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 9.0 units

AHIS 4	History of Western Art: Prehistoric Through Gothic	3.0
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AHIS 4H	History of Western Art: Prehistoric Through Gothic - Honors	3.0
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AHIS 5	History of Western Art: Renaissance Through Modern	3.0
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or

AHIS 5H	History of Western Art: Renaissance Through Modern - Honors	3.0
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ARTD 15A	Drawing: Beginning	3.0
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List A (select one): 3.0 units

AHIS 9	History of Asian Art and Architecture	3.0
AHIS 11	History of African, Oceanic, and Native American Art	3.0

AHIS 12	History of Precolumbian Art	3.0
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or

AHIS 12H	History of Precolumbian Art - Honors	3.0
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List B (select one): 3.0 units

ARTB 14	Basic Studio Arts	3.0
ARTD 17A	Drawing: Life	3.0

ARTD 20	Design: Two-Dimensional	3.0
ARTG 20	Art, Artists and Society	3.0

ARTS 22	Design: Three-Dimensional	3.0
ARTS 30A	Ceramics: Beginning I	3.0
ARTS 40A	Sculpture: Beginning	3.0

List C (select two): 6.0 units

Students may select any course not selected from list A above

AHIS 3	History of Women and Gender in Art	3.0
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or

AHIS 3H	History of Women and Gender in Art - Honors	3.0
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AHIS 6	History of Modern Art	3.0
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or

AHIS 6H	History of Modern Art - Honors	3.0
AHIS 8	History of Medieval Art and Architecture	3.0

AHIS 10	A History of Greek and Roman Art and Architecture	3.0
AHIS 14	Rome: The Ancient City	3.0
AHIS 15	The Culture and Art of Pompeii	3.0

Total Units for Major: 21.0

Courses may be double-counted with either CSU-GE or IGETC.

NEW AND APPROVED PROGRAMS: DEGREES

Associate in Arts in English for Transfer

Degree A0332

The Associate in Arts in English for Transfer introduces students to Literature written in English and gives them the option of studying creative writing. Completion of the degree provides students with the core skills and knowledge needed to pursue a baccalaureate degree in English. Those core skills and knowledge include the ability to analyze literature and the ability to write researched analytical papers. Students who earn this degree will be able to write a literary analysis, analyze major themes and concerns in literature, and identify the influence of culture on human expression.

To earn an Associate in Arts in English for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 7.0 units

ENGL 1B	English - Introduction to Literary Types	3.0
	<i>or</i>	
ENGL 1BH	Introduction to Literary Types - Honors	3.0
	<i>and</i>	
ENGL 1C	Critical Thinking and Writing	4.0
	<i>or</i>	
ENGL 1CH	Critical Thinking and Writing - Honors	4.0

List A (select two): 6.0 units

LIT 1	Early American Literature	3.0
	<i>and</i>	
LIT 2	Modern American Literature	3.0
	<i>or</i>	
LIT 6A	Survey of English Literature	3.0
	<i>and</i>	
LIT 6B	Survey of English Literature	3.0
	<i>or</i>	
LIT 11A	World Literature to 1650	3.0
	<i>and</i>	
LIT 11B	World Literature from 1650	3.0

List B (select one): 3.0 units

Student may select any course not selected from List A above

ENGL 8A	Creative Writing Fiction	3.0
ENGL 8B	Creative Writing Poetry	3.0
ENGL 8F	Creative Writing Non-Fiction	3.0
ENGL 81	Language Acquisition	3.0

List C (select one): 3.0 units

Student may select any course not selected from List A or List B above

ENGL 8C	Creative Writing Novel	3.0
JOUR 100	Mass Media and Society	3.0
JOUR 101	Beginning News Writing	3.0
LIT 10	Survey of Shakespeare	3.0
LIT 14	Introduction to Modern Poetry	3.0
LIT 15	Introduction to Cinema	3.0
LIT 25	Contemporary Mexican American Literature	3.0
LIT 36	Introduction to Mythology	3.0
LIT 40	Children's Literature	3.0
LIT 46	The Bible as Literature - Old Testament	3.0
LIT 47	The Bible as Literature - New Testament	3.0

Total Units for Major: 19.0

Courses may be double-counted with either CSU-GE or IGETC.

Associate in Arts in History for Transfer

Degree A0334

History is a broad-based academic discipline with foundational coursework in both World History and The History of the United States, augmented with course options that add dimension and depth to the student's understanding of the discipline—such as history courses outside of the Western World, courses in the humanities or social sciences (including history) that address any historically under-represented group or non-western subject matter fulfilling transfer level GE categories and courses in foreign languages.

The degree program requires students to critically analyze material from a variety of sources and to develop links and connections in abstracting fundamental meaning of historical data. The course distribution of the degree will expose the students to the complexity and diversity of the historical past, thus placing the present day issues and problems within a meaningful historical context.

To earn an Associate in Arts in History for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 6.0 units

HIST 7	History of the United States to 1877	3.0
	<i>or</i>	
HIST 7H	History of the United States to 1877 - Honors	3.0
	<i>and</i>	
HIST 8	History of the United States from 1865	3.0
	<i>or</i>	
HIST 8H	History of the United States from 1865 - Honors	3.0

List A (select two): 6.0 units

HIST 3	World History: Prehistoric to Early Modern	3.0
	<i>or</i>	
HIST 3H	World History: Prehistoric to Early Modern - Honors	3.0
	<i>and</i>	
HIST 4	World History: Early Modern to the Present	3.0
	<i>or</i>	
HIST 4H	World History: Early Modern to the Present - Honors	3.0

List B (select one course from each group): 6.0-7.0 units

Group 1: Diversity Course

AHIS 9	History of Asian Art and Architecture	3.0
AHIS 11	History of African, Oceanic, and Native American Art	3.0
AHIS 12	History of Precolumbian Art	3.0
AHIS 12H	History of Precolumbian Art - Honors	3.0
ARAB 1	Elementary Arabic	4.0
ARAB 2	Continuing Elementary Arabic	4.0
CHIN 1	Elementary Chinese	4.0
CHIN 2	Continuing Elementary Chinese	4.0
CHIN 3	Intermediate Chinese	4.0
CHIN 4	Continuing Intermediate Chinese	4.0
FRCH 1	Elementary French	4.0
FRCH 2	Continuing Elementary French	4.0
FRCH 3	Intermediate French	4.0
FRCH 4	Continuing Intermediate French	4.0
FRCH 5	Advanced French	4.0
FRCH 6	Continuing Advanced French	4.0
GERM 1	Elementary German	4.0
GERM 2	Continuing Elementary German	4.0
GERM 3	Intermediate German	4.0
HIST 10	History of Premodern Asia	3.0
HIST 11	History of Modern Asia	3.0
HIST 19	History of Mexico	3.0
HIST 30	History of the African American	3.0
HIST 31	History of the African American	3.0
HIST 35	History of Africa	3.0
HIST 36	Women in American History	3.0
HIST 40	History of the Mexican American	3.0
HIST 44	History of Native Americans	3.0

ITAL 1	Elementary Italian	4.0	Group 2: History-Related Humanities Course			
ITAL 2	Continuing Elementary Italian	4.0	AHIS 1	Understanding the Visual Arts	3.0	
ITAL 3	Intermediate Italian	4.0	AHIS 1H	Understanding the Visual Arts	3.0	
ITAL 4	Continuing Intermediate Italian	4.0		- Honors		
ITAL 5	Advanced Italian	4.0	AHIS 3	History of Women and Gender in Art	3.0	
ITAL 6	Continuing Advanced Italian	4.0	AHIS 3H	History of Women and Gender in Art	3.0	
JAPN 1	Elementary Japanese	4.0		- Honors		
JAPN 2	Continuing Elementary Japanese	4.0	AHIS 4	History of Western Art:	3.0	
JAPN 3	Intermediate Japanese	4.0		Prehistoric Through Gothic		
JAPN 4	Continuing Intermediate Japanese	4.0	AHIS 4H	History of Western Art:	3.0	
JAPN 5	Advanced Japanese	4.0		Prehistoric Through Gothic - Honors		
LATN 1	Elementary Latin	4.0	AHIS 5	History of Western Art:	3.0	
LATN 2	Continuing Elementary Latin	4.0		Renaissance Through Modern		
LIT 20	African American Literature	3.0	AHIS 5H	History of Western Art:	3.0	
LIT 25	Contemporary Mexican American Literature	3.0		Renaissance Through Modern - Honors		
POLI 25	Politics of the Mexican American	3.0	AHIS 6	History of Modern Art	3.0	
POLI 35	African American Politics	3.0	AHIS 6H	History of Modern Art - Honors	3.0	
SPAN 1	Elementary Spanish	4.0	AHIS 9	History of Asian Art and Architecture	3.0	
SPAN 2	Continuing Elementary Spanish	4.0	AHIS 10	A History of Greek and Roman Art	3.0	
SPAN 3	Intermediate Spanish	4.0		and Architecture		
SPAN 4	Continuing Intermediate Spanish	4.0	AHIS 11	History of African, Oceanic,	3.0	
SPAN 5	Advanced Spanish	4.0		and Native American Art		
SPAN 6	Continuing Advanced Spanish	4.0	AHIS 12	History of Precolumbian Art	3.0	
SIGN 101	American Sign Language 1	4.0	AHIS 12H	History of Precolumbian Art - Honors	3.0	
SIGN 102	American Sign Language 2	4.0	ANTH 5	Principles of Cultural Anthropology	3.0	
SIGN 103	American Sign Language 3	4.0	ANTH 22	General Cultural Anthropology	3.0	
SIGN 104	American Sign Language 4	4.0	ANTH 30	The Native American	3.0	
SIGN 202	American Deaf Culture	3.0	ARTB 1	Understanding the Visual Arts	3.0	
			DN-T 20	History and Appreciation of Dance	3.0	
			GEOG 2	Human Geography	3.0	
			GEOG 2H	Human Geography - Honors	3.0	
			GEOG 5	World Regional Geography	3.0	
			HIST 39	California History	3.0	
			HUMA 1	The Humanities	3.0	
			LIT 11A	World Literature to 1650	3.0	
			LIT 11B	World Literature from 1650	3.0	
			MUS 12	History of Jazz	3.0	
			MUS 14A	World Music	3.0	
			MUS 14B	American Folk Music	3.0	
			MUS 15	Rock Music History and Appreciation	3.0	
			PHOT 15	History of Photography	3.0	
			THTR10	History of Theater Arts	3.0	
			Total Units for Major:		18.0 - 19.0	
			<i>Courses may be double-counted with either CSU-GE or IGETC.</i>			

NEW AND APPROVED PROGRAMS:
DEGREES