

Accounting

There are three certificate programs available in accounting: Accountant, Computerized Accounting Specialist, and Tax Preparation. Accounting majors intending to transfer to a four-year college should refer to the Business Administration transfer curriculum.

Accounting Certificate Program

This program meets a substantial portion of the 24-unit Accounting course requirement to take the California CPA exam. It is intended primarily for students possessing a bachelor's degree or foreign university equivalent. In addition, completion of this certificate is helpful in securing entry-level accounting positions in business and industry. CPA EXAM AND LICENSURE: Please contact the California Board of Accountancy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate proficiency in processing the accounting cycle for a business.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
or		
ACCT 203*	Cost Accounting	3
ACCT 202A*	Intermediate Accounting I	3
ACCT 202B*	Intermediate Accounting II	3
ACCT 216*	Individual Income Tax	4
ACCT 275*	Auditing	3
BUS 12	Business Law	3
or		
BUS 14	Legal Environment of Business	3
	Select from Restricted Electives:	3
Total Units for the Certificate		26-27
Restricted Electives:		
ACCT 120	Introduction to Financial Planning	3
ACCT 217*	Partnership and Corporate Taxation	3
ACCT 221*	Accounting Information Systems	3

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major:
ACCT 214; BUS 1, 102, 103, 104, 125; CIM 1, 112, CIMN 100, 100A, CIMA 104, 106; ECON 2, 4.

Accounting Associate in Science Degree

This program meets a substantial portion of the 24-unit Accounting course requirement to take the California CPA exam. It is intended primarily for students possessing a bachelor's degree or foreign university equivalent. In addition, completion of this certificate is helpful in securing entry-level accounting positions in business and industry such as Accounts Payable Clerk, Accounts Receivable Clerk, General Ledger Clerk or Bookkeeper. CPA EXAM AND LICENSURE: Please contact the California Board of Accountancy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate proficiency in processing the accounting cycle for a business.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
or		
ACCT 203*	Cost Accounting	3

ACCT 202A*	Intermediate Accounting I	3
ACCT 202B*	Intermediate Accounting II	3
ACCT 216*	Individual Income Tax	4
ACCT 217*	Partnership and Corporate	3
ACCT 275*	Taxation Auditing	3
BUS 13	Legal Environment & Business Law	3

Total Units for the Major 26-27

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualify the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 210, 214, 215; BUS 1, 102, 103, 104, 125; CIM 1, 112; CIMA 104, 106; ECON 2, 4.

Computerized Accounting Specialist Certificate and Degree Program

This program provides students who plan to enter the accounting field with knowledge of accounting principles and practices to record transactions for various types of businesses using a double-entry accounting system, as well as the latest commercial software, and the ability to analyze financial statements.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate proficiency in processing the accounting cycle for a business using popular accounting software.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
ACCT 216*	Individual Income Tax	4
ACCT 221*	Accounting Information Systems	3
CIMA 104+	Spreadsheets: Excel	3
CIMA 223B*	Computerized Accounting: QuickBooks — Advanced	1.5
	Select from Restricted Electives	3
Total Units for the Certificate		22.5

Restricted Electives:

ACCT 120	Introduction to Financial Planning	3
ACCT 202A*	Intermediate Accounting I	3
ACCT 217*	Partnership and Corporate Taxation	3
ACCT 275*	Auditing	3

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+ Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general

education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 202A, 202B, 203, 214, 215; BUS 102, 103, 104, 125; CIM 1, 112, CIMN 100, 100A, CIMA 104B*, 106; ECON 2, 4.

Tax Preparation Certificate Program

This program provides students with sufficient knowledge of Federal and State of California tax law to prepare individual and small business tax returns and to obtain an entry-level position as a tax preparer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate applications of current federal and state tax law.
- Analyze basic tax information and prepare related tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 216*	Individual Income Tax	4
ACCT 217*	Partnership and Corporate Taxation	3
BUS 12	Business Law	3
<i>or</i>		
BUS 14	Legal Environment of Business	3
CIMA 104+	Spreadsheets: Excel	3
CIMA 223A*	Computerized Accounting: QuickBooks — Beginning	1.5
<i>or</i>		
CIMA 223B*	Computerized Accounting: QuickBooks — Advanced	1.5
Select from Restricted Electives		3
Total Units for the Certificate		21.5

Restricted Electives:

ACCT 215	General Accounting	3
ACCT 235	Entrepreneurial Accounting	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Suggested coursework not required for the major: ACCT 120, 202B, 203, 214, 215; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, CIMN 100, 100A, CIMA 104B*, 106; ECON 2, 4.

Tax Preparation Associate in Science Degree

This program provides students with sufficient knowledge of Federal and State of California tax law to prepare individual and small business tax returns and to obtain an entry-level position as a tax preparer or bookkeeper.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate applications of current federal and state tax law.
- Analyze basic tax information and prepare related tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 216*	Individual Income Tax	4
ACCT 217*	Partnership and Corporate Taxation	3
BUS 13	Legal Environment & Business Law	3
CIM 216+	Spreadsheets: Excel	3

CIM 223A*	Computerized Accounting: QuickBooks — Beginning	1.5
<i>or</i>		
CIM 223B*	Computerized Accounting: QuickBooks — Advanced	1.5
Select from Restricted Electives		3
Total Units for the Major		21.5

Restricted Electives:

ACCT 215	General Accounting	3
ACCT 235	Entrepreneurial Accounting	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Completion of courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 120, 202B, 203, 214, 215; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, 171, 174, 174A, 216B, 218; ECON 2, 4.

Administrative Assistant Certificate and Degree Program

The Administrative Assistant program prepares individuals for employment in key staff positions or enhances existing skills of office assistants, office managers, and other professionals.

Course ID	Title	Units
BUS 103	Business English	3
CIM 1	Introduction to Computer Information Systems	3
<i>or</i>		
CIM 10	Introduction to Information Systems	3
<i>or</i>		
CIM 112	Microsoft Office	3
CIM 121C*	Keyboarding for Computers — Advanced	1.5
CIM 174+	Computer Operating Systems: Windows	3
CIM 214+	Word Processing: Word	3
CIM 216+	Spreadsheets: Excel	3
CIM 230	Business Presentations: PowerPoint	3
Select from Restricted Electives		4.5
Total Units for the Certificate		24

Restricted Electives:

BUS 102	Oral Business Techniques	3
BUS 104*	Business Communication	3
BUS 125	Human Relations in Business	3
CIM 218	Database: Access	3
CIM 221	Managing Projects with Microsoft Project	3
CIM 223A*/B*	Computerized Accounting: QuickBooks — Beginning/Advanced	1.5, 1.5
CIM 227*	Internet and Web Essentials	1.5
CIM 271A*/B*	Web Development: XHTML — Beginning/Advanced	1.5, 1.5
CIM 272*	Web 2.0 Design: Cascading Style Sheets	1.5
CIM 278A*/B*	Creating Web Pages: Dreamweaver — Beginning/Advanced	1.5, 1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA

of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 1, 12, 125.

American Sign Language Certificate and Degree Program

The American Sign Language (ASL) program is designed to prepare the student to be able to communicate with the Deaf Community in a variety of settings. Proficiency in ASL is valuable to professionals in special education, health sciences, audiology, and speech therapy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate the skills needed to communicate with the Deaf community at a basic to native level.
- Show in-depth knowledge about the Deaf community and their culture.
- Competently interact with native signers.

Course ID	Title	Units
SL 1*	American Sign Language I	4
SL 2*	American Sign Language II	4
SL 3*	American Sign Language III	4
SL 4*	American Sign Language IV	4
SL 101	Deaf Culture and Its History	3
Total Units for the Certificate		19

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: SOC 1.

Anthropology

Anthropology Associate Degree Program

Anthropology is a diverse discipline that investigates the biological and cultural life of human beings in all times and in all places. An anthropology degree provides students with an appreciation of other ways of life and different systems of belief, and perhaps most importantly, a better understanding of the world in which they live. The curriculum in the Anthropology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Anthropology degree by providing the necessary breadth in the field and an introduction to the methods used. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree in anthropology, which can be achieved through transfer, is recommended for those considering professional careers.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Demonstrate an understanding of the historical development of the discipline and the centrality of the four-field approach in American anthropology.

- Explain the basic processes of human biological evolution.
- Describe modern human biological diversity and articulate an informed position on the question of race.
- Define and critically analyze the concepts of culture and cultural relativism.
- Demonstrate the ability to think holistically and comparatively in describing human cultural diversity.
- Demonstrate an understanding of the processes of social and cultural change through time.
- Discuss the politics of inclusion and exclusion both locally and globally.
- Articulate an anthropological perspective in relation to contemporary issues and concerns.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods for the undertaking of biological, ethnographic, linguistic, and/or archaeological research.
- Identify the ethical responsibilities and concerns in the conducting of anthropological research.
- Write concisely and logically, incorporating relevant data and knowledge.
- Critically evaluate information sources about different peoples and cultures.

Course ID	Title	Units
ANTH 1	Biological Anthropology	3
ANTH 2	Cultural Anthropology	3
ANTH 3*	Culture and Language	3
ANTH 9	Introduction to Archaeology	3
	Select from Restricted Electives	6
Total Units for the Major		18

Restricted Electives:

ANTH 4	Native American Indian Culture	3
ANTH 5	Anthropology of Latin America: Culture, Identity, and Power	3
ANTH 6*	Global Issues in Anthropological	3
ANTH 7	Perspective Indians of Southern California	3
ANTH 8	World Prehistory	3
ANTH 10	Celtic Cultures	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 14	Introduction to Visual Culture	3
ANTH 15	World of Primates	3
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women, Gender, and Culture: Cross-Cultural Perspectives	3
ANTH 100*	Forensic Anthropology	3
ES 1	Multicultural Experiences in the United States	3
ES 3	Introduction to Chicana/o and Latina/o Cultures	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 11*, 22*, 40; GEOG 2; HIST 20/SOC 20; MATH 10*; PSYC 16*; SOC 1.

Associate in Arts Degree in Anthropology for Transfer

The curriculum in the Anthropology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Anthropology for Transfer degree by providing the necessary breadth in the field and, an introduction to the methods used. Students who

complete the Associate in Arts Degree in Anthropology for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Demonstrate an understanding of the historical development of the discipline and the centrality of the four-field approach in American anthropology.
- Explain the basic processes of human biological evolution.
- Describe modern human biological diversity and articulate an informed position on the question of race.
- Define and critically analyze the concepts of culture and cultural relativism.
- Demonstrate the ability to think holistically and comparatively in describing human cultural diversity.
- Demonstrate an understanding of the processes of social and cultural change through time.
- Discuss the politics of inclusion and exclusion both locally and globally.
- Articulate an anthropological perspective in relation to contemporary issues and concerns.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods of the undertaking of biological, ethnographic, linguistic, and/or archaeological research.
- Identify the ethical responsibilities and concerns in the conducting of anthropological research.
- Write concisely and logically, incorporating relevant data and knowledge.
- Critically evaluate information sources about different peoples and cultures.

Required Core

ANTH 2	Cultural Anthropology	3
ANTH 1	Biological Anthropology	3
ANTH 9	Introduction to Archaeology	3

Group A: Select one of the following courses (3 units)

ANTH 3*	Culture and Language	3
ANTH 13	Magic, Witchcraft, and Religion	3

Group B: Select one of the following courses or any course from Group A not already used (3-4 units)

BIO 11*	Human Anatomy	4
GEOL 1	Introduction to Physical Geology	4
GEOL 20	Introduction to Earth Science	4
GEOL 23	Environmental Geology	4

Group C: Select from the courses below or any course from Group A or Group B not already used (3-4 units)

ANTH 1L*	Biological Anthropology Laboratory	1
ANTH 4	Native American Indian Cultures	3
ANTH 5	Anthropology of Latin America: Culture, Identity, and Power	3
ANTH 6*	Global Issues in Anthropological Perspective	3
ANTH 7	Indians of Southern California	3
ANTH 8	World Prehistory	3
ANTH 10	Celtic Cultures	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 14	Introduction to Visual Culture	3
ANTH 15	The World of Primates	3
ANTH 16*	Archaeological Field Methods	1

ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women, Gender, and Culture: Cross-Cultural Perspectives	3
ANTH 100*	Forensic Anthropology	3
ES 3	Introduction to Chicana/o and Latina/o Cultures	3

Total Units for the Major 18-20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Arabic Associate Degree Program

The Arabic Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Arabic. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a comprehensive knowledge of Arabic vocabulary.
- Use proficient conversational skills in Arabic.
- Read and write in Arabic.
- Demonstrate introductory cultural and historic knowledge of Arabic speaking people.

Course ID	Title	Units
ARAB 1*	Elementary Arabic	5
ARAB 2*	Elementary Arabic	5
ARAB 3*	Intermediate Arabic	5
ARAB 4*	Intermediate Arabic	5
ARAB 901*	Arabic Language Lab	.25
ARAB 902*	Arabic Language Lab	.25
ARAB 903*	Arabic Language Lab	.25
ARAB 904*	Arabic Language Lab	.25
Select one course from Restricted Electives:		3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Architectural Drafting Certificate and Degree

This occupational program is a two-year sequence of courses designed for students who wish to train for employment in architecture or a field related to the construction industry.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in the 3 languages of architectural visualization: Board Drafting, AutoCAD, and Revit.
- Demonstrate knowledge of at least 7 of the major periods of architectural history: Ancient Egyptian, Ancient Greek, Ancient Roman, Byzantine, Romanesque, Gothic, Renaissance, Baroque, Neoclassical, Craftsman, Art Nouveau, Art Deco, Modern, and Contemporary Architecture.
- Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.
- Write contract documents used in the architecture, engineering and construction industry.

Course ID	Title	Units
First Year		
ARCH 10	Introduction to Architecture	2
ARCH 12	History of Architecture	3
ARCH 50*/DR 50*	Introduction to Computer-Aided Drafting	3
ARCH 51*/DR 51*	Computer-Aided Drafting	3
ARCH 124A	Architectural Drawing I	4
ARCH 218	Foundation Studio in Architecture	4
ARCH 219*	Residential and Commercial Space Planning	4
ARCH 220*	Revit and Building Information Management (BIM)	4
Second Year		
ARCH 34*	Basic Architectural Design I	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124B*	Architectural Drawing II	4
ARCH 124C*	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
	Select from Restricted Electives	3-6
	Total Units for the Certificate	49-52
Restricted Electives:		
ARCH 44*	Architectural Presentation and Rendering	2
ARCH 132*	Residential Planning Principles and Design	3
ARCH 152*/DR 152*	Advanced Computer-Aided Design	3
ARCH 161	Blueprint Plans and Specification Reading	4
ARCH 163	International Building Code Inspection	4
ARCH 164*	Combination Residential Dwelling Inspection	3
ARCH 165	Electrical Code Inspection	3
ARCH 200	Design in Arizona, Riverside, and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code: Heating, AC, Refrigeration, and Ductwork	3
ARCH 221*	Advanced Revit/Building Information Management II	4
ARCH 260	Architecture in Northern California	1.5
ARCH 261	Orange and San Diego Architecture	1.5
ARCH 262	Los Angeles Architecture	1.5
DR 200*	3D Parametric Modeling - Solidworks	3
MFG 200*	Introduction to Rapid-Prototyping Technology	3
MFG 201*	Advanced CAD Model Making and Tooling	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ARCH 44, 136; ART 40, 41, 80

Art

Art Associate Degree Program

The curriculum in the Art Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment in graphic design or promotion.

Program Student Learning Outcomes

Students who complete this program will:

- Be prepared for transfer in art history and/or studio art by offering articulated courses, and courses that serve as pre-requisites for admission in the UC system, the CSU system and private institutions.
- Be prepared for employment in the field of art through experience in the studio arts, exhibition design, and art history. Students develop practical skills that translate into a higher level of qualification for employment in the areas of illustration, animation, web design, graphic design, architecture, art education, fashion, interior design, museum studies, art sales, and many other areas.
- Demonstrate skills to pursue lifelong learning in the areas of art history and studio arts.

Course ID	Title	Units
First Year		
ART 40	2-D Foundations	3
ART 41*	Three-Dimensional Design	3
ART 50*	Painting I	3
ART 80	Drawing I	3
	Select from Restricted Electives	3
Second Year		
ARTH 25	Survey of Art History: Ancient Worlds to Gothic	3
ARTH 26	Survey of Art History: Renaissance to Modern	3
ART 85*	Drawing from the Live Model I	3
	Select from Restricted Electives	9
	Total Units for the Major	33

Restricted Electives:

ART 9*, 10*, 11*, 12*, 13*, 51*, 52*, 54*, 57, 58*, 59*, 60*, 61*, 62*, 63, 70, 71*, 72*, 78, 79*, 81*, 82*, 86*, 87*, 140, 141, 142, 145, 175*, 216*, 217*, 240*, 250*, ARTH 20, 21, 22, 23, 24, 28, 29.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate in Arts Degree in Studio Arts for Transfer

The Associate in Arts in Studio Arts for Transfer degree is designed for students who plan to earn a Bachelor of Arts in Art at a California State University institution. The core courses required in this program provide students with a foundation of knowledge to pursue advance study in a variety of programs including General Studio, Ceramics, Crafts, Drawing, Painting, Entertainment Art, Animation, Graphic Design, Illustration, Sculpture, Printmaking and other similar majors of concentration. The Associate in Arts in Studio Arts for Transfer will prepare the student for transfer to a four year University and guarantee admission to the CSU system, though it will not guarantee admission to a particular campus. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Be prepared for transfer in art history and/or studio art by offering articulated courses, and courses that serve as prerequisites for admission in the UC system, the CSU system and private institutions.
- Be prepared for employment in the field of art through experience in the studio arts, exhibition design, and art history. Students develop practical skills that translate into a higher level of qualification for employment in the areas of illustration, animation, web design, graphic design, architecture, art education, fashion, interior design, museum studies, art sales, and many other areas.
- Demonstrate skills to pursue lifelong learning in the areas of art history and studio arts.

Course ID	Title	Units
Required Core:		
ARTH 26*	Survey of Western Art History: Renaissance to Contemporary	3
ART 40	2-D Foundations	3
ART 41*	Three-Dimensional Design	3
ART 80	Drawing I	3
Group A: Select one of the following courses (3 units)		
ARTH 22	Survey of Asian Art (India, China, Japan, and Korea)	3
ARTH 23	African and Oceanic Art	3
ARTH 25	Survey of Art History: Ancient Worlds to Gothic	3
ARTH 29	Introduction to World Art	3
Group B: Select three courses from three areas below (9 units)		
Drawing		
ART 85*	Drawing From the Live Model I	3
or		
ART 81*	Drawing II	3

Painting		
ART 50*	Painting – I	3
Printmaking		
ART 60*	Intaglio (Etching) and Relief I	3
Ceramics		
ART 9*	Ceramics Fundamentals	3
Sculpture		
ART 70	Fundamentals of Sculpture	3
Color		
ART 42*	Color Theory and Practice	3
Total Units for the Major		24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree in Art History for Transfer

The curriculum in the Art History program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Art History for Transfer degree by providing the necessary breadth in the field and an introduction to the methods used. The Associate in Arts in Art History for Transfer degree fulfills general education requirements for the college, encourages humanistic learning across disciplines and also provides a foundation for all students looking to transfer to a baccalaureate institution as an Art History or Studio Art major.

The Associate in Arts in Art History for Transfer provides training for students seeking a career in the arts including museums, galleries, and art practice. Students who complete the Associate in Arts in Art History for Transfer will receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Students who complete the Associate in Arts in Art History for Transfer will be prepared for transfer in art history, be prepared for employment in the field through experience in art history, and demonstrate skills to pursue lifelong learning in the areas of art history.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge and skills necessary for transfer as an Art History major.
- Demonstrate skills that translate into a higher level of qualification for employment in museum education, museum curating, gallery design, art sales, and many other areas.
- Use various strategies to evaluate and describe elements of art and visual culture as a basis for lifelong learning in the arts.

Course ID	Title	Units
Required Courses		
ARTH 25	Survey of Art History: Ancient Worlds to Gothic	3
ARTH 26	Survey of Art History: Renaissance to Modern	3
ART 80	Drawing I	3
Group A: Select one of the following courses (3 units)		
ARTH 22	Survey of Asian Art (India, China, Japan, and Korea)	3
ARTH 23	African and Oceanic Art	3
Group B: Select one of the following courses (3 units)		
ART 40	2-D Foundations	3
ART 41*	Three-Dimensional Design	3
ART 85*	Drawing from the Live Model I	3
ART 9*	Ceramics Fundamentals	3
ART 70	Fundamentals of Sculpture	3

ART 10*	Ceramics — Handbuilding I	3
ART 60*	Intaglio (Etching) and Relief I	3
Group C: Select one of the following courses (3-5 units)		
ARTH 21	Women and Art	3
ARTH 24	Indigenous Arts of the Americas	3
ARTH 27	History of American Art	3
ARTH 28	History of Modern Art	3
ARTH 29	Introduction to World Art	3
ART 4	Fundamentals of Art	3
ARTH 20	Art Appreciation	3
SPAN 1*	Elementary Spanish	5
GER 1*	Elementary German	5
FR 1*	Elementary French	5

Total Units for the Major **18-20**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Astronomy Associate Degree Program

The curriculum in the Astronomy Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify the structure and evolution of the solar system by comparing and contrasting the planets.
- Demonstrate observational techniques used to gather data on astronomical objects.
- Describe the evolution, structure and composition of the universe. Including all galaxies, quasars, proto-galaxies and components within galaxies (stars, gas, dust and non-stellar objects).

Course ID	Title	Units
First Year		
ASTR 20	General Astronomy	3
<i>and</i>		
ASTR 25*	Observational Astronomy	3
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
Total Units for the Major		34

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Technology

The Automotive Technology programs are designed to prepare students for employment as automotive technicians. Students may also complete their Associate in Science Degree requirements and prepare to transfer to a four-year college. Training is given in both theory and practical skills in the operation, maintenance, and repair of all types of automotive systems. The following five certificate options are available: Alternative Fuel Vehical Specialist, Automotive Chassis Specialist, Automotive Engine Service Specialist, Automotive Engine Performance Specialist, and General Automotive Technician.

Alternative Fuel Vehicle Specialist Certificate and Degree Program

This program provides students with knowledge of all operating systems in the modern hybrid and alternative fueled automobile. The emphasis is on the unique characteristics and maintenance issues associated with hybrid and alternative fuel systems and alternative forms of propulsion. Ideal for the small business owner, independent shop, or the dealership career-oriented technician.

Program Student Learning Outcomes

- **Employability:** Graduates of the Alternative Fuel Vehicle Specialist Program will be well-prepared for employment in the automotive industry.
- **Industry Skills:** Graduates of the Alternative Fuel Vehicle Specialist Program will have current industry-specific skills related to the safety, operation, service, maintenance and repair of alternative fuel vehicles.
- **Alternative Fuel Vehicle Specialist:** Graduates of the Alternative Fuel Vehicle Specialist Program will be able to apply knowledge in the workplace of the different systems of alternative fuel vehicles.
- **License Preparation:** Graduates of the Alternative Fuel Vehicle Specialist Program will be qualified to take the related ASE certification exams.

Course ID	Title	Units
Required Courses:		
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical Systems	3
AUTO 201*	Advanced Automotive Electrical	3
AUTO 207*	Automotive Engineering Fundamentals	3
AUTO 229*	Diesel Technology	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
	Select from Restricted Electives	3
Total Units for the Certificate		27

Restricted Electives:

AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/Fuel and Emissions Systems	3
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brake Systems	3
AUTO 107*	Automatic Transmissions	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 240*	Automotive Lab	3
CWE 180*†	Cooperative Work Experience: Automotive	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Alternative Fuel Vehicle Specialist Program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Chassis Specialist Certificate and Degree Program

This program allows a student to prepare for a career with drivetrain emphasis. This program is ideal for the small-business owner, independent shop, or the dealership career-oriented technician.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Apply industry-specific skills related to drivetrain operation, diagnostics and repair.
- Apply knowledge of all phases of chassis system operation, diagnostics and repair.
- Demonstrate preparation for related ASE certification exams.

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical Systems	3
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brakes	3
AUTO 107*	Automatic Transmissions	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 201*	Advanced Automotive Electrical	3
AUTO 207*	Automotive Engineering Fundamentals Select from Restricted Electives	3 .5-5
Total Units for the Certificate		27.5-32

Restricted Electives:

AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 205*	Advanced Smog Update Training	.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
AUTO 240*	Automotive Lab	3
CWE 180*†	Cooperative Work Experience: Automotive	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Automotive Chassis Specialist Certificate program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Engine Performance Specialist Certificate and Degree Program

This program allows a student to prepare for a career with an emphasis in engine performance. The student will be qualified to take the State of California Bureau of Automotive Repair Smog License exam upon completion of this program.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Apply industry specific skills related to engine performance.
- Apply knowledge of all phases of engine electrical system, computer system diagnostics and repair.
- Demonstrate preparation for related ASE certification exams.

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical System	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/ Fuel and Emissions Systems	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	1
AUTO 201*	Advanced Automotive Electrical	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 207*	Automotive Engineering Fundamentals Select from Restricted Electives	3 3
Total Units for the Certificate		27.5

Restricted Electives:

AUTO 108*	Automotive Air Conditioning	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
AUTO 240*	Automotive Lab	3
CWE 180*†	Cooperative Work Experience: Automotive	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Automotive Engine Performance Specialist Certificate program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Engine Service Specialist Certificate and Degree Program

This program provides the student with a comprehensive background in the engine machining process. Emphasis is on detailed instruction in all phases of engine operation, measurement, machining, blueprinting and assembly procedures. Students will rebuild a complete engine in a two-semester course sequence.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Apply industry-specific skills related to the process of engine machining.
- Apply knowledge of all phases of engine operation, measurement, machining, blueprinting and assembly to re-build a complete engine.
- Demonstrate preparation for related ASE certification exams.

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/Fuel and Emissions Systems	3
AUTO 104A*	Automotive Engines	5
AUTO 104B*	Automotive Engines	5
AUTO 204A*	High Performance Engine Blueprinting-Rotating Assembly	3
AUTO 204B*	High Performance Engine Blueprinting-Cylinder Heads	3
AUTO 207*	Automotive Engineering Fundamentals Select from Restricted Electives	5-5
Total Units for the Certificate		28.5-33

Restricted Electives:

AUTO 108*	Automotive Air Conditioning	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 205*	Advanced Smog Update Training	.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
AUTO 240*	Automotive Lab	3
CWE 180*†	Cooperative Work Experience: Automotive	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Automotive Engine Service Specialist Certificate program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

General Automotive Technician Certificate and Degree Program

This program provides students with knowledge of all operating systems in the modern automobile. Ideal for the small business owner, independent shop, or the dealership career-oriented technician.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Demonstrate auto industry specific skills.
- Demonstrate skills in automotive diagnosis, maintenance, and repair

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical System	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/Fuel and Emissions Systems	3
AUTO 104A*	Automotive Engines	5
AUTO 104B*	Automotive Engines	5
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brakes	3
AUTO 207*	Automotive Engineering Fundamentals Select from Restricted Electives	5-5
Total Units for the Certificate		34.5-39

Restricted Electives:

AUTO 107*	Automotive Transmissions	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	2
AUTO 201*	Advanced Automotive Electrical	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 204A*	High Performance Engine Blueprinting-Rotating Assembly	3
AUTO 204B*	High Performance Engine Blueprinting-Cylinder Heads	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
AUTO 240*	Automotive Lab	3
CWE 180*†	Cooperative Work Experience: Automotive	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the General Automotive Technician Certificate program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Biology Associate Degree Program — Biological Science

The curriculum in the Biology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a working knowledge of the scientific method.
- Demonstrate the ability to make links among topics and sub-disciplines so that information can be used for deeper comprehension.
- Demonstrate the ability to use the attained knowledge foundation to illustrate concepts and compare examples.

Course ID	Title	Units
First Year		
BIO 3A*	General Biology I	5
BIO 3B*	General Biology II	5
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
Second Year		
BIO 3C*	Biochemistry and Molecular Biology	5
CHEM 12A*	Organic Chemistry	5
CHEM 12B*	Organic Chemistry	5
Total Units for the Major		35

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 11, 12 or 15; MATH 3A or 11; PHYS 2A, 2B or 4A, 4B.

Business

The Business certificates and degrees are designed for the development of a high quality manager for whom there is an ever-growing need. The Business curriculum is structured to furnish a broad preparation for careers in business at the mid-management levels.

Associate in Science Degree in Business Administration for Transfer

Students who complete the Associate in Science in Business Administration for Transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Students who complete the Business Administration AS-T degree will be prepared to transfer to a four-year institution with the required business, accounting, economics, math, and other learning.
- Students who complete the Business Administration AS-T degree will have learned the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Students who complete the Business Administration AS-T degree will be able to communicate clearly, effectively, and appropriately in writing and orally.

Course ID	Title	Units
Required Courses		
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
ECON 4*	Principles (Micro)	3
ECON 2*	Principles (Macro)	3
BUS 14	Legal Environment of Business	3
or		
BUS 12	Business Law	3
List A: Select one of the following courses (3-5 units)		
MATH 11*	A Brief Course in Calculus	5
MATH 10*	Introduction to Statistics	3
List B: Select two of the following courses or any course from List A not already used (6-9 units)		
CIM 1	Computer Information Systems	4
BUS 1	Introduction to Business	3
or		
BUS 104*	Business Communication	3
Total Units for the Major		27-29

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Business Leadership Certificate and Degree Program

The Business Leadership program is designed to increase the ability to succeed in a highly competitive work environment.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate clearly, effectively, and appropriately in writing and orally.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Students who complete the certificate or degree in the Business Leadership program will have learned how to assess human communication styles; plan and apply motivational strategies; solve human relations issues.

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 12	Business Law	
or		
BUS 14	Legal Environment of Business	3
BUS 102	Oral Business Communication	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
BUS 125	Human Relations in Business	
or		
BUS 223	Human Resources and Employment Law	3
Total Units for the Certificate		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 1A, BUS 116, 135, 150, 160, 195.

Business Management Degree Program

The curriculum in the Business Management Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers in business, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate clearly, effectively, and appropriately in writing and orally.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
- Apply the basics of financial accounting.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
BUS 1	Introduction to Business	3
BUS 102	Oral Business Communications (meets AA Oral Communication requirement)	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
BUS 125	Human Relations In Business	3
CIM 1	Introduction to Computer Information Systems	3
or		
CIM 10	Introduction to Information Systems	3
or		
CIM 112	Microsoft Office	1.5
Total Units for the Major		20.5-22

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Entrepreneurship Certificate and Degree Program

The Entrepreneurship Certificate is designed for students who wish to emphasize entrepreneurship in their community college business studies, including completing the additional requirements for an Associate in Science degree in this area. Entrepreneurial studies help prepare students who plan to seek a higher degree in business. Completion of the Entrepreneurship Certificate demonstrates achievement, may support job applications, and, importantly, provides students with critical knowledge and tools for planning and starting a new business. The program provides valuable preparation in proven business practices and with business ownership issues such as market focus, measurements of success, and developing a clear and useful business plan.

Because some of the leading causes of failure in new businesses are poor risk management, lack of adequate capitalization, and mismanagement of resources, this program provides specific information in these areas to help make good decisions to ensure success.

The Entrepreneurship Certificate is also useful for members of the community who are planning or starting a new business. Some of these students might prefer to complete the shorter Entrepreneurship Occupational Skills Award.

Many of the courses in the program are designed with the busy professional in mind.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the major influences on small businesses and on starting and building businesses, including governmental, financial, human resource, and other considerations.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 1	Introduction to Business	3
BUS 12	Business Law	3
or		
BUS 14	Legal Environment of Business	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
BUS 160	Entrepreneurship	3
	Marketing Specialties	3
	Restricted Electives	1.5-4
	Communication Specialties	1.5-3
Total Units for the Certificate		24-28

Marketing Specialties:

BUS 105	Social Media Marketing	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138/CTVR 138	Advertising	3

Restricted Electives:

BUS 223	Human Resources and Employment Law	3
BUS 237	Financing the Entrepreneurial Business	1.5
CWE 180	Cooperative Work Experience: Business	2-4

Communication Specialties:

BUS 102	Oral Business Communications	3
CIMA 283E, F, G	Office Skills: Word, Excel, PowerPoint .5, .5, .5	

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: BUS 102, 125, 223.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the major influences on small businesses and on starting and building businesses, including governmental, financial, human resource, and other considerations.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 1	Introduction to Business	3
BUS 12	Business Law	3
or		
BUS 14	Legal Environment of Business	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
BUS 160	Entrepreneurship	3
	Marketing Specialties	3
	Restricted Electives	1.5-4
	Communication Specialties	1.5-3
Total Units for the Major		24-28

Marketing Specialties:

BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138/CTVR 138	Advertising	3

Restricted Electives:

BUS 223	Human Resources and Employment Law	3
BUS 237	Financing the Entrepreneurial Business	1.5
CWE 180	Cooperative Work Experience: Business	2-4

Communication Specialties:

BUS 102	Oral Business Communications	3
CIM 213E, F, G	Office Skills: Word, Excel, PowerPoint .5, .5, .5	

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 102, 125, 223

Global Business Certificate and Degree Program

Technology and international commerce have redefined business in a global context. The Global Business program prepares students for careers in international business and industries that deal with international trade and global markets. The program focuses on the dynamics of international organization, environments, trade, language, socioeconomic and cultural forces, political and legal issues, and emerging global markets. Completion of the recommended electives demonstrates global competencies in international business. Elective courses provide specialized areas of study. Transfer International Business majors should refer to the Business Administration transfer curriculum.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe global business concepts, principles, and development of successful global business strategies.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 12	Business Law	
or		3
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
BUS 150	International Business	3
BUS 260	Survey of Exporting and Importing	3
	Restricted Electives	6-7

Restricted Electives:

BUS 102	Oral Business Communications	3
BUS 135	Marketing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138/CTVR 138	Advertising	3
BUS 160	Entrepreneurship	3
CWE 180	Cooperative Work Experience: Business	3-4

Total Units for the Certificate 21-22

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: BUS 102, 116, 120, 125, 136, 137, 138, 150, 160, 195, 223.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe global business concepts, principles, and development of successful global business strategies.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 12	Business Law	
or		3
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
BUS 150	International Business	3
BUS 260	Survey of Exporting and Importing	3
	Restricted Electives	6-7

Restricted Electives:

BUS 102	Oral Business Communications	3
BUS 105	Social Media Marketing	3
BUS 135	Marketing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138/CTVR 138	Advertising	3
BUS 160	Entrepreneurship	3
CWE 180	Cooperative Work Experience: Business	3-4

Total Units for the Major 21-22

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 102, 116, 120, 125, 136, 137, 138, 150, 160, 195, 223.

Marketing Certificate and Degree Program

The Business Marketing program offers a focus on courses designed to improve student success in the field of promotion, personal selling, and advertising.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.

Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.

Students who complete a certificate or degree in the Marketing Program will be able to communicate clearly, effectively, and appropriately in writing and orally.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
BUS 1	Introduction to Business	3
BUS 12	Business Law	
or		3
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
BUS 135	Marketing	3
BUS/CTVR 138	Advertising	3
	Restricted Electives	6-7
Total Units for the Certificate		25-26

Restricted Electives:

BUS 102	Oral Business Communication	3
BUS 105	Social Media Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
*CWE 180	Cooperative Work Experience: Business	3-4

Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 12 or 14, 116.

Professional Retailing Certificate and Degree Program

Success in business roles and merchandising is often found in the skills of management, promotion, or merchandising. The Professional Retailing program is designed to allow a choice of additional study in one of the three skill areas.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify the fundamentals of professional retailing: merchandising, marketing, management, staffing, buying, pricing, transaction/stock control, location, layout, service, consumer behavior and service, and current problems and trends, as they apply to the retailing of goods and services.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.
- Engage successfully in one-to-one professional selling in today's marketplace.
- Demonstrate skills in one of three retailing specialties: management, promotion, or merchandizing.

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 125	Human Relations in Business	3
BUS 137	Professional Selling Fundamentals	3
CWE 180	Cooperative Work Experience: Business	1-4
CIM 112	Microsoft Office	3
	Select one Specialty Industry Area	12-15
Total Units for the Certificate		25-31

Specialty Industry Areas

Area I — Management

BUS 12	Business Law	
or		3
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
BUS 120	Business Management	
or		3
BUS 135	Marketing	

Area II — Promotion

BUS 135	Marketing	3
BUS 138/CTVR 138	Advertising	
or		3
BUS 105	Social Media Marketing	
FASH 150	Fashion Apparel and Professional Techniques	3
GC 101	Introduction to Graphic Communication	3

Area III — Merchandising

BUS 31/FASH 31	Textiles	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	
or		3
BUS 143/FASH 143	Fashion Buying and Merchandising	
BUS 147/FASH 147	Special Events Coordination and Promotion	3
BUS 148/FASH 148	Visual Merchandising	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGEC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 12 or 14, 102, 103, 104, 116, 135, 137, 138, 147, 150, 260; CIM 1, 10, 120, 121A, CIMN 100, 100A, 100B; FASH 140, 144, 150.

Retail Management Certificate and Degree Program

The Retail Management program, designed by managers of major retail corporations, prepares individuals to be effective managers or for promotion to management in the retail industry. The curriculum assists students' understanding of the scope of the retail manager's job and the requirements for success. Completion of the certificate in Retail Management enhances the opportunity for entry employment as well as advancement in a retail career.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the scope of the retail manager's job and the requirements for success, including merchandising, marketing, management, staffing, buying, pricing, transaction/stock control, location, layout, service, consumer behavior and service, and current problems and trends, as they apply to the retailing of goods and services.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
- Demonstrate skills in business math and financial accounting.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 214	Business Analysis and Calculations	3
BUS 102	Oral Business Communications	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 223	Human Resources and Employment Law	3
CIM 1	Computer Information Systems	4
or		
CIM 10	Introduction to Information Systems	
or		3
CIM 112	Microsoft Office	
Total Units for the Certificate		31-32

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGEC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 12 or 14, 105, 116, 137, 138, 150, 160.

Entrepreneurship Occupational Skills Award

The Entrepreneurship Occupational Skills Award is particularly useful for members of the community and other students who are planning or are in the process of starting a new business.

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 160	Entrepreneurship	3
BUS 223	Human Resources and Employment Law	3
BUS 237	Financing the Entrepreneurial Business	1.5
Total Units for the Award		10.5

Human Resources Management Occupational Skills Award

The Human Resources Management Occupational Skills Award is designed to increase the ability to succeed in an emerging and evolving work environment. The curriculum assists students' understanding of the scope of human resources management and the requirements for success. Completion of the program in Human Resources Management enhances the opportunity for entry employment as well as advancement in a career.

Course ID	Title	Units
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 223	Human Resources and Employment Law	3
Total Units for the Award		9

Project Management Occupational Skills Award

The Project Management Occupational Skills Award provides the opportunity to master the necessary management concepts to successfully complete projects with an effective level of leadership, planning, and teamwork. The courses assist in the development of the needed skills to gain personal confidence and trust of others to lead a project management team. Completion of this program increases the value of the management skills needed for entry-level employment as well as advancement in a career.

Course ID	Title	Units
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
CIMA 221	Managing Projects with Microsoft Project	3
Total Units for the Award		9

Chemistry Associate Degree Program

The curriculum in the Chemistry Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment at the technician level in government agencies and many areas of industry and manufacturing such as petroleum, foods, pharmaceuticals, plastics, and textiles.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a working knowledge of inorganic and organic chemistry, including calculations, reactions, and nomenclature.
- Apply to other fields.
- Demonstrate problem-solving and critical thinking skills.
- Engage in hands-on experiences in both the classroom and the laboratory.

- Show confidence in laboratory skills, operate independently during many procedures, and learn to design their own experiments.
- Interpret experimental information, develop relationships, and correlate that experimental information with theory.
- Write quality exams and laboratory reports, with well-developed explanations, discussions, and conclusions.

Course ID	Title	Units
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
Second Year		
CHEM 12A*	Organic Chemistry	5
CHEM 12B*	Organic Chemistry	5
Total Units for the Major		20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 3C; MATH 3A, 3B; PHYS 2A, 2B or 4A, 4B.

Child Development and Education

The Child Development and Education Department offers programs for students considering work with children in a variety of settings. Child Development coursework offers theory based, hands-on opportunities for students to deepen their understanding of children's physical, cognitive, and socioemotional development and apply culturally sensitive, specific pedagogical strategies effective for children ages 0-5 and their families. The Elementary Education degree is designed to prepare students considering elementary teaching with a strong foundation in introductory subject matter requirements for teaching at the elementary school level.

Certificates, degrees, and courses in the CDE Department are aligned with professional early childhood certification requirements, prepare students for transfer to four-year institutions, and provide post certification professional development. The majors offer preparation for careers in state funded children's programs, private preschools, infant and toddler care settings, and elementary school teaching. Programs in the CDE department can also lead to careers working directly or indirectly with children in related fields, such as psychology, social services, educational material development, children's center design, public advocacy, special education, and pediatric health.

Associate of Science Degree in Early Childhood Education for Transfer

The curriculum in the Associate in Science in Child Development for Transfer is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree may support attempts to gain entry-level employment in social services or promotion.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Course ID	Title	Units
Required Courses:		
CD 101*	Principles and Practices for Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observation and Assessment	3
CD 121*	Practicum: The Student Teaching Experience	5
Total Units for the Major		26

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Early Childhood Teacher Certificate and Degree Program

This certificate meets the coursework requirements of the Teacher level Child Development Permit and prepares students to be competent and effective teachers and caregivers for young children ages 3-5. Additional work experience with young children (175 days of 3 hours per day within 4 years) is required to qualify for state permit. Saddleback Certificate can be earned with coursework only.

A minimum grade of "C" in each course is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.

- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Core Courses

Course ID	Title	Units
CD 101*	Principles and Practices of Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching in a Diverse Society	3
CD 120*	Observation and Assessment	3

Supervised Field Experience Course

CD 121*	Practicum: The Student Teaching Experience	5
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Lab placement must be in a setting that serves children ages 3-5

General Education (16 units):

A course in each of the following 4 areas must be included.

See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total Units for the Certificate	45

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College. Students intending to transfer must complete IGETC or CSU pattern general education courses.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate in Arts Degree in Elementary Teacher Education for Transfer

Upon completion of the Associate in Arts in Elementary Teacher Education for Transfer, students will have a strong foundation in introductory content area subject matter requirements for teaching at the elementary school level. Students will also have the opportunity to participate in supervised fieldwork in K-12 settings. Students who complete the Associate in Arts Degree in Elementary Teacher Education for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate introductory subject matter competency for the Multiple Subject California Subject Examination for Teachers (CSET).

- Compare and contrast teaching strategies and approaches appropriate to students of diverse needs, abilities, and backgrounds.
- Discuss the historical influences and current trends in education.

Course ID	Title	Units
Required Courses		
EDUC 90*	Intro to Elementary Education	3
CD 107*	Child Growth and Development	3
BIO 20	Introduction to Biology	4
CHEM 3*	Fundamental Chemistry	4
PHYS 20	The Ideas and Events of Physics	4
GEOL 20	Introduction to Earth Science	4
MATH 112*	Mathematics for Elementary School Teachers	5
SP 1	Communication Fundamentals	3
ENG 1A*	Principles of Composition I	4
ENG 25*	Introduction to Literature	3
GEOG 3	World Regional Geography	3
HIST 4	World History to 1750	3
HIST 16	History of the United States to 1876	3
PS 1	American Government	3
Group A: Select one of the following courses (3 units)		
ENG 1B*	Principles of Composition II	3
ENG 170*	Reasoning and College Reading	3
Group B: Select one of the following courses (3 units)		
ARTH 20	Art Appreciation	3
MUS 20	Music Appreciation	3
TA 20	Theatre Appreciation	3
Group C: Select one of the following courses (3 units)		
ENG 142*	Children's Literature	3
ENG 17A*	Survey of English Literature: Beowulf to Romantic Movement	3
ENG 17B*	Survey of English Lit: Romantic Movement to The Present	3
ENG 15A*	Survey of American Literature: 1620-1860	3
ENG 15B*	Survey of American Literature: 1860-Contemporary	3
PHIL 1*	Introduction to Philosophy	3
PHIL 15*	Introduction to Ethics	3
HUM 1*	Introduction to Humanities	3
HUM 21*	The Search for Meaning: Ideas of Self Across Cultures	3
ANTH 3*	Culture and Language	3
Total Units for the Major		58

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Infant Toddler Teacher Certificate Program

This certificate meets the coursework requirements of the Teacher level Child Development Permit and prepares students to be competent and effective teachers and caregivers in infant and toddler classrooms.

A minimum grade of "C" in each course is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate skills and knowledge related to the unique needs and education of infants and toddlers age 0-36 months.

- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Core Courses

Course ID	Title	Units
CD 101*	Principles and Practices of Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching in a Diverse Society	3
CD 120*	Observation and Assessment	3

Infant and Toddler Courses

CD 123*	Infant and Toddler Development	3
CD 133*	Infant and Toddler Curriculum and Group Care	3

Supervised Field Experience Courses

CD 121*	Practicum: The Student Teaching Experience	5
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Lab placement must be in a setting that serves children ages 0-2

General Education:

A course in each of the following 4 areas must be included.

See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16

Total Units for the Certificate 51

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Master Teacher Certificate Program

This certificate meets the coursework requirements for the Master Teacher level Child Development Permit and prepares students to be competent and effective teachers and caregivers for young children ages 0-5 and supervisors of adults in early childhood settings.

A minimum grade of "C" in each course is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.

- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children’s development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate the skills and knowledge used in mentoring and supervising adults in early childhood settings
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Core Courses

Course ID	Title	Units
CD 101*	Principles and Practices for Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching in a Diverse Society	3
CD 120*	Observation and Assessment	3

Supervised Field Experience Courses

CD 121*	Practicum: The Student Teaching Experience	5
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Adult Supervision Course

CD 127*	Adult Supervision and Mentor Practices	2
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Specialization Units: Choose one of the clusters below

Infant /Toddler

CD 123*	Infant and Toddler Development	3
CD 133*	Infant and Toddler Curriculum and Group Care	3

Language and Literacy

CD 115*	Literacy in Early Childhood	3
ENG 142*	Children’s Literature	3

Science and Math

CD 113*	Math and Science in Early Childhood	3
GEOL 1	Introduction to Physical Geology	4

Special Needs

CD 135*	The Young Child with Special Needs	3
CD 140*	Early Intervention and Inclusion	3

The Arts

CD 114*	Creative and Dramatic Arts in Early Childhood	3
ART 9*	Ceramic Fundamentals	3

General Education (16 units):

A course in each of the following 4 areas must be included. See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total Units for the Certificate	53-54

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

School Age Care and Recreation Certificate Program

This certificate provides a system of professional development for individuals working as before and after school recreation leaders and care givers in a variety of settings that serve school age children. It meets the coursework requirement for the School Age Child Development Permit at the Teacher level.

A minimum grade of “C” in each course is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, family, economic, political, historical contexts that influence all children’s development.
- Demonstrate skills and knowledge related to the unique needs of children in school age in a before and after recreation settings.
- Use the ongoing cycle of curriculum development to plan, implement, and evaluate early childhood curriculum including environments based on developmentally, culturally, linguistically appropriate practices.
- Apply developmental theory, knowledge of child development, and research based teaching strategies to meet the unique educational needs of young children individually and in group care settings.
- Demonstrate professional skills including ethical practices, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers.

Core Courses

Course ID	Title	Units
CD 101*	Principles and Practices of Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching in a Diverse Society	3
CD 120*	Observations and Assessment	3

School Age Course

CD 121*	Practicum: The Student Teaching Experience	5
Lab placement must be in a before/after school care setting with children ages 6-12		
CD 125*	School Age Children and Youth	3

General Education (16 units):

A course in each of the following 4 areas must be included. See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total Units for the Certificate	48

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Site Supervisor Certificate Program

This certificate is designed for students who will be single site supervisors under Title 5 regulations or directors for centers regulated by Title 22. It allows holders to supervise Master Teachers, Teachers, Associate Teachers and assistants as well as manage single site programs, provide instruction and serve as coordinators of curriculum and staff development. To be eligible for this level of the California Children's Center Permit, work experience of 350 days of 3 hours per day within 4 years (100 hours of which must include supervision of adults) must be completed.

A minimum grade of "C" in each course is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate the skills and knowledge in supervising program staff, financial management, licensing requirements, and program management in settings for young children.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Core Courses

Course ID	Title	Units
CD 101*	Principles & Practice of Teaching Young Children	3
CD 105*	Child, Family & Community	3
CD 107*	Child Growth & Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
CD 111*	Child Guidance & Communication	3
CD 112*	Health, Safety & Nutrition	3
CD 117*	Teaching in a Diverse Society	3
CD 120*	Observation & Assessment	3

Supervised Field Experience Course

CD 121*	Practicum: The Student Teaching Experience	5
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Adult Supervision and Administration Courses (8 units)

CD 127*	Adult Supervision and Mentor Practices	2
CD 128*	Administration of Young Children's Settings: Program	3
CD 129*	Administration of Young Children's Settings: Management	3

General Education (16 units):

A course in each of the following 4 areas must be included. See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16

Total Units for the Certificate 53

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description in catalog.

Associate Teacher Occupational Skills Award

This skills award meets the coursework requirements for the Associate Teacher level of the Child Development Permit. Additional work experience with young children.

A minimum grade of "C" in each course is required to receive the certificate.

Course ID	Title	Units
CD 101*	Principles and Practices of Teaching Young Children	3
CD 105*	Child, Family, and Community	3
CD 107*	Child Growth and Development	3
CD 110*	Introduction to Early Childhood Curriculum	3
Total Units for the Award		12

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description

Chinese Associate Degree Program

The Chinese Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Chinese. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Chinese vocabulary.
- Use proficient conversational skills in Chinese.
- Read and write in Chinese.
- Demonstrate introductory cultural and historic knowledge of Chinese speaking people.

Course ID	Title	Units
CHI 1*	Elementary Chinese	5
CHI 2*	Elementary Chinese	5
CHI 3*	Intermediate Chinese	5
CHI 4*	Intermediate Chinese	5
CHI 901*	Chinese Language Lab	.25
CHI 902*	Chinese Language Lab	.25
CHI 903*	Chinese Language Lab	.25
CHI 904*	Chinese Language Lab	.25
Select one course from Restricted Electives:		3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Cinema/Television/Radio

Cinema/Television/Radio Certificate and Degree Program

The Cinema/Television/Radio Program prepares the student in all areas relating to the understanding and use of cinematic and broadcast media, with particular emphasis on hands-on experience. Employment possibilities include: producing, directing, on-air talent, editing, and numerous other vocational opportunities. This program provides and encourages both field and studio work in the student's area of specialty. Coursework includes participation in internships at various stations and facilities.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply skills and knowledge required to be successful in the media production industry and/or to excel in four-year institutions.
- Produce a demo reel which can showcase their skills and knowledge and help them find employment.
- Demonstrate readiness for employment in the industry and/or transfer to a four-year institution.
- Describe the technical, cultural and economic history and trends of radio, television or film.

Course ID	Title	Units
CTVR 40*	Television and Film Scriptwriting I	3
CTVR 101	Video Production Basics	3
	Select one Specialty Area	15
Total Units for the Certificate		21

Specialty Area 1 — Cinema

Required Courses:

CTVR 31*	Film Production I	3
CTVR 32*	Film Production II	3

Restricted Electives: (9 units)

CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 129*	Documentary Production	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 233*	Film Production III	3
CTVR 251*	Non-Linear Editing II	3
CTVR 262	Production Management	3
CTVR 264*	Cinematography	2
CTVR 266	Script Supervising for Film and Television	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CTVR 291*	Acting for the Camera II — Creating a Character	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Specialty Area 2 — Television

Required courses:

CTVR 124*	Television Production I	3
CTVR 125*	Television Production II	3

Restricted Electives: (9 units)

CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 128	Television and Radio News	3
CTVR 129*	Documentary Production	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 251*	Non-Linear Editing II	3
CTVR 262	Production Management	3
CTVR 264*	Cinematography	2
CTVR 266	Script Supervising for Film and Television	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Specialty Area 3 — Radio

Required Courses:

CTVR 110	Audio Production	3
CTVR 113*	Radio Broadcasting	3
CTVR 115*	Advanced Radio Broadcasting	2

Restricted Electives: (7 units)

CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 114*	Radio Station Activities	2
CTVR 118/ MUS 118	Digital Multi-Track Music Recording	4
CTVR 128*	Television and Radio News	3
CTVR 191	Voice-Over and Announcing	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Specialty Area 4 — Post Production

Required Courses:

CTVR 151	Non-Linear Editing I	3
CTVR 251*	Non-Linear Editing II	3
CTVR 253*	Digital Special Effects	3

Restricted Electives: (6 units)

CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 118/ MUS 118	Digital Multi-Track Music Recording	4
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Specialty Area 5 — CTVR-Critical Studies

Required Courses: (12 units)

CTVR 3	History and Appreciation of American Cinema	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3

Restricted Electives: (3 units)

CTVR/JRN 1	Mass Media and Society	3
CTVR 31*	Film Production I	3
CTVR 42*	Television and Film Directing	3
CTVR 100	Introduction to Cinema, Television, and Radio	3

CTVR 124*	Television Production I	3
CTVR 129*	Documentary Production	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1
ENG 52*	The Film as Literature	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Specialty Area 6 — Screen Acting and Voice Performance

CTVR 191	Voice-Over and Announcing	3
CTVR 290	Acting for the Camera I	3
CTVR 291*	Acting for the Camera II - Creating a Character	3

Restricted Electives: (6 units)

CTVR 31*	Film Production I	3
CTVR 42*	Television and Film Directing	3
CTVR 124*	Television Production I	3
CTVR 128*	Television and Radio News	3
CTVR 129*	Documentary Production	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1
TA 290	Acting for Television and Film	3

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Cinema Occupational Skills Awards

The Cinema Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a filmic production from the conception to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of several broadcast-quality short films suitable for use on a demonstration reel. Completion of this program increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	Title	Units
Required Courses:		
CTVR 31*	Film Production I	3
CTVR 32*	Film Production II	3
CTVR 101	Video Production Basics	3
	Select from Restricted Electives	6
Total Units for the Award		15

Restricted Electives:

CTVR 40*	Television and Film Scriptwriting I	3
CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 233*	Film Production III	3
CTVR 251*	Non-Linear Editing II	3
CTVR 262	Production Management	3
CTVR 264*	Cinematography	2
CTVR 266	Script Supervising for Film and Television	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

CTVR — Critical Studies Occupational Skills Award

The Critical Studies Occupational Skills Award provides the opportunity to master the fundamental proficiencies to analyze and gain appreciation for visual and media literacy in general and motion pictures/cinematic communication in particular. The courses assist in student development by focusing on specific areas of cinematic history, appreciation and analysis. Completion of this skills award increases the value of the technical, aesthetic, and professional skills in the field of entertainment.

Course ID	Title	Units
Required Courses:		
CTVR 3	History and Appreciation of American Cinema	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
	Select from Restricted Electives	3
Total Units for the Award		15

Restricted Electives:

CTVR 1/JRN 1	Mass Media and Society	3
CTVR 100	Introduction to Cinema, Television, and Radio	3
ENG 52*	The Film as Literature	3

Post Production Occupational Skills Awards

The Post Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a film, television or electronic media production from the delivery of media to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks. Completion of this Occupational Skills Award increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	Title	Units
Required Courses:		
CTVR 151	Non-Linear Editing I	3
CTVR 251*	Non-Linear Editing II	3
CTVR 253*	Digital Special Effects	3
	Select from Restricted Electives	6
Total Units for the Award		15

Restricted Electives:

CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 118/MUS 118	Digital Multi-Track Music Recording	4
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Radio Occupational Skills Awards

The Radio Broadcasting Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a radio production from the conception to finished product as well as to understand the principles of radio broadcasting and station management. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of broadcast-quality radio programs suitable for use on a demonstration reel and the hands-on management of the college's flagship radio station KSBR. Completion of this program increases the value of the technical,

aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	Title	Units
Required Courses:		
CTVR 110	Audio Production	3
CTVR 113*	Radio Broadcasting	3
CTVR 115*	Advanced Radio Broadcasting	2
	Select from Restricted Electives	7
Total Units for the Award		15
Restricted Electives:		
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 114*	Radio Station Activities	2
CTVR 118/MUS 118	Digital Multi-Track Music Recording	4
CTVR 128	Television and Radio News	3
CTVR 191	Voice-Over and Announcing	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Screen Acting and Voice Performance Occupational Skills Award

The Screen Acting and Voice Performance Occupational Skill Award prepares the student in all areas relating to the understanding and application of the skills necessary to perform in mass/electronic media, with particular emphasis on practical on-air/on-camera experience. Employment possibilities include: on-air talent, hosting, news, web-based promotions, film and television production roles, and numerous other vocational opportunities. This program provides and encourages both field and studio work in the student's area of specialty. Coursework may include participation in internships at various stations and facilities.

Course ID	Title	Units
Required Courses:		
CTVR 191	Voice-Over and Announcing	3
CTVR 290	Acting for the Camera I	3
CTVR 291*	Acting for the Camera II – Creating a Character	3
	Select from Restricted Electives	6
Total Units for the Award		15
Restricted Electives:		
CTVR 31*	Film Production I	3
CTVR 40*	Television and Film Scriptwriting I	3
CTVR 42*	Television and Film Directing	3
CTVR 101	Video Production Basics	3
CTVR 124*	Television Production I	3
CTVR 128	Television and Radio News	3
CTVR 129*	Documentary Production	3
TA 290	Acting for Television and Film	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Television Occupational Skills Awards

The Television Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a television production from the conception to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of broadcast-quality programs suitable for use on a demonstration reel. Completion of this program increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	Title	Units
Required Courses:		
CTVR 101	Video Production Basics	3
CTVR 124*	Television Production I	3
CTVR 125*	Television Production II	3
	Select from Restricted Electives	6
Total Units for the Award		15
Restricted Electives:		
CTVR 40*	Television and Film Scriptwriting I	3
CTVR 42*	Television and Film Directing	3
CTVR 111*	Audio and Sound Design for Television and Film	3
CTVR 128	Television and Radio News	3
CTVR 129*	Documentary Production	3
CTVR 140*	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 251*	Non-Linear Editing II	3
CTVR 262	Production Management	3
CTVR 264*	Cinematography	2
CTVR 266	Script Supervising for Film and Television	3
CTVR 280*	Cinema/Television/Radio Employment Skills	3
CWE 180*	Cooperative Work Experience: Cinema/TV/Radio	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate of Arts Degree in Communication Studies for Transfer

The curriculum in the Associate in Arts in Communication for Transfer is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree may support attempts to gain entry-level employment in social services or promotion.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Use enhanced awareness to describe ethical ways of interacting.
- Effectively communicate in front of audiences.
- Demonstrate proficiency in research and citation technique.
- Correctly apply communication theories to enhance the quality of their interactions in their everyday lives.

Course ID	Title	Units
Required Courses:		
SP 1	Communication Fundamentals	3
SP 3*	Argumentation and Debate	3
SP 5	Interpersonal Communication	3
Select two of the following courses (6 Units)		
CTVR/JRN 1	Mass Media and Society	3
CTVR 124*	Television Production I	3
MATH 10*	Introduction to Statistics	3
SP 20	Intercultural Communication	3
SP 106	Forensics Activity	3
SP 30/TA 30	Introduction to Oral Interpretation	3
Select one of the following courses or any of the courses not selected above (3 Units)		
ANTH 2	Cultural Anthropology	3
ENG 1B*	Principles of Composition II	3
JRN 2	News Writing	3
PSYC 1	Introduction to Psychology	3
SOC 1	Introduction to Sociology	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Computer and Information Management

The Computer and Information Management program includes industry standard programs that prepare students for careers using technology in the business workplace. The programs are: Applications Developer, E-Commerce Specialist, Network Administrator, Software Specialist, Web Designer, and Webmaster.

Applications Developer Certificate and Degree Program

This program is designed to prepare the student for entry-level employment as an applications developer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of application development.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIMP 5	Business Programming I: Visual Basic	3.5
CIMP 7A*	Business Programming: Java — Beginning	3
CIMW 105	Web Development and DB: Intro SQL and MySQL	3
CIMW 250A	Microsoft ASP.NET — Beginning	3.5
	MySQL	3
	Select from Restricted Electives	5-7
Total Units for the Certificate		18-20

Restricted Electives:

CIMP 7B*	Business Programming: Java — Advanced	3
CIMN 200	Introduction to Networking	3
CIMN 230	Computer Operating Systems: Unix/Linux	3
CIMW 245*	Web Development: PHP & CMS/Word Press E-Commerce	3
CIMN 250*	Network and Security Administration Using Unix/Linux	3
CIMW 250B*	Microsoft ASP.NET — Advanced	3.5
CIMW 260*	Web Development: Javascript, Frameworks, jQuery, AJAX	3
CIMW 100A*	Web Site Development: HTML — Beginning	1.5
CIMW 100B*	Web Site Development: HTML — Advanced	1.5
CIMP 115	Business Programming — C#	3.5
CIMA 288	Database Reporting	3.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: ACCT 1A, 1B; BUS 1, 12; CIM 112, 121A, CIMW 207, CIMN 200, 210; ECON 2, 4; MATH 10.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of application development.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.

- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIM 2A	Business Programming I: Visual Basic	3.5
CIM 7A*	Business Programming: Java — Beginning	3
CIM 205A	Web Development and DB: Intro SQL and MySQL	3
CIM 251*	Introduction to Networking	3
CIM 260A*	Microsoft ASP.NET — Beginning	3.5
CIM 269A*	Web Development: JavaScript — Beginning	1.5
CIM 271A*	Web Development: XHTML — Beginning	1.5
	Select from Restricted Electives	3-4.5
Total Units for the Major		22-23.5

Restricted Electives:

CIM 7B*	Business Programming: Java — Advanced	3
CIM 172*	Computer Operating Systems: Unix/Linux	3
CIM 225*	Web Development: PHP	3
CIM 257*	Network and Security Administration Using Unix/Linux	3
CIM 260B*	Microsoft ASP.NET — Advanced	3.5
CIM 269B*	Web Development: Javascript, Frameworks, and Intro to AJAX	3
CIM 271B*	Web Development: XHTML — Advanced	1.5
CIM 287	Business Programming — C#	3.5
CIM 288	Database Reporting	3.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the above courses and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 1A, 1B; BUS 1, 12; CIM 112, 121A, 227, 251, 252; ECON 2, 4; MATH 10.

E-Commerce Specialist Certificate and Degree Program

The E-Commerce Specialist Certificate program prepares the student to apply business functions to the web. All types of business sectors and activities can be web-based, including retail, wholesale, import-export, human resources, customer service, or departments within an organization. Electronic commerce, or e-commerce, is used in public and private business, both profit and non-profit sectors, in corporations, government, small businesses, professional associations, and personal applications as well. This program provides the skills for conducting business on the web, preparing an electronic approach, and managing an e-commerce web presence.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of E-commerce.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIMW 100A*/100B*	Web Site Development: HTML — Beginning/Advanced	1.5, 1.5
CIMW 240*	Web 2.0 Design: Cascading Style Sheets	3
CIMW 110A*	Creating Web Pages: Dreamweaver — Beginning	1.5
CIMW 280‡	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	9

Restricted Electives: Total Units for the Certificate 18

BUS 135	Marketing	3
CIMW 245*	Web Development: PHP & CMS/Word Press E-Commerce	3
CIMW 220A/B*	Web Animation: Flash — Beginning/Intermediate	1.5, 1.5
CIMW 110B*	Creating Web Pages: Dreamweaver — Advanced	1.5
CIMS 200*	Information Security Fundamentals	3
CIMW 235	Web Development: Adobe Fireworks	1.5
CIMA 106	Database: Access	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

‡Final course to be taken

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGEC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Network Administrator Certificate and Degree Program

This program prepares the student for an entry-level position as an information systems network administrator.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Network Administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIM 1	Computer Information Systems	4
or		
CIM 112	Microsoft Office	3
CIMN 230	Computer Operating Systems: Unix/Linux	3
CIMN 100+	Computer Operating Systems: Windows	3
CIMN 200	Introduction to Networking	3
CIMN 210	Networking Essentials and Technologies	3.5
	Select from Restricted Electives	6
Total Units for the Certificate		21.5-22.5

Restricted Electives:

CIMP 7A/B*	Business Programming: Java — Beginning/Advanced	3, 3
CIMW 105	Web Development and DB: Intro SQL and MYSQL	3
CIMA 106	Database: Access	3
CIMW 207	Social Media and Web Fundamentals	1.5
CIMA 108	Business Presentations: PowerPoint	3
CIMN 240*	Fundamental Unix/Linux System Administration	3
CIMN 250*	Network and Security Administration Using Unix/Linux	3
CIMW 100A*/B*	Web Site Development: HTML — Beginning/Advanced	1.5, 1.5
CIMS 200*	Information Security Fundamentals	3
CIMS 230	Security+	3
CIMN 220A	MCITP Certification Exam Prep I	3
CIMN 220B	MCITP Certification Exam Prep II	3
CIMN 220C	MCITP Certification Exam Prep III	3
CIMN 220D	MCITP Certification Exam Prep IV	3
CIMN 220E	MCITP Certification Exam Prep V	3
CIMN 220F	MCITP Certification Exam Prep VI	3
CIMS 250	Cyberlaw	3
CIMN 260	Interconnecting CISCO Network Devices	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Suggested coursework not required for the major: CIMP 5, CIMA 102, 104, 104A; ECON 2, 4; CMT 215, 220*, 225*, 230*.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Network Administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIM 1	Computer Information Systems	4
or		
CIM 112	Microsoft Office	3
CIMN 230	Computer Operating Systems: Unix/Linux	3
CIMN 100+	Computer Operating Systems: Windows	3
CIMN 200	Introduction to Networking	3
CIMN 210	Networking Essentials and Technologies	3.5
	Select from Restricted Electives	6

Total Units for the Major 21.5-24

Restricted Electives:

CIMP 7A/B*	Business Programming: Java — Beginning/Advanced	3, 3
CIMW 105	Web Development and DB: Intro SQL and MYSQL	3
CIMA 106	Database: Access	3
CIMW 207	Social Media and Web Fundamentals	1.5
CIMA 108	Business Presentations: PowerPoint	3
CIMN 240	Fundamental Unix/Linux System Administration	3
CIMN 250	Network and Security Administration Using Unix/Linux	3
CIMW 100A/B*	Web Site Development: HTML — Beginning/Advanced	1.5, 1.5

CIMS 200	Information Security Fundamentals	3
CIMS 230	Security+	3
CIMN 220A	MCITP Certification Exam Prep I	3
CIMN 220B	MCITP Certification Exam Prep II	3
CIMN 220C	MCITP Certification Exam Prep III	3
CIMN 220D	MCITP Certification Exam Prep IV	3
CIMN 220E	MCITP Certification Exam Prep V	3
CIMS 250	Cyberlaw	3
CIMN 260	Interconnecting CISCO Network Devices	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Completion of the courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: CIMP 5, CIMA 102 A, B, 104, 104A; ECON 2, 4; CMT 215, 220*, 225*, 230*.

Software Specialist Certificate and Degree Program

The Software Specialist Certificate program prepares the student for an entry-level position as a knowledge worker in the technical work environment using industry-standard software packages.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment with industry standard technical software packages.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIM 10	Introduction to Information Systems	3
or		
CIM 112	Microsoft Office	3
CIMA 102+	Word Processing: Word	3
CIMA 104+	Spreadsheets: Excel	3
CIMA 106	Database: Access	3
CIMA 108	Business Presentations: PowerPoint	3
	Select from Restricted Electives	3
Total Units for the Certificate		18

Restricted Electives:

CIM 121A/B*/C*	Keyboarding for Computers — Beginning/Intermediate/Advanced	1.5, 1.5, 1.5
CIMN 100+	Computer Operating Systems: Windows	3
CIMN 230	Computer Operating Systems: Unix/Linux	3
CIMA 212	Managing Projects With Microsoft Project	3
CIMA 223A*/B*	Computerized Accounting: QuickBooks — Beginning/Advanced	1.5, 1.5
CIM 274A/B	Web Digital Imagery: Photoshop — Beginning/Advanced	1.5, 1.5
CIMW 207	Social Media and Web Fundamentals	1.5
CIMW 110A*/B*	Creating Web Pages: Dreamweaver — Beginning/Advanced	1.5, 1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 214; CIMN 200, 210; ECON 2, 4.

Web Designer Certificate and Degree Program

The Web Designer Certificate program prepares the student to develop a web presence for businesses, organizations, and individuals in communication, marketing, and data management through the development of a website. Students will learn how to reach an audience and communicate ideas. The program includes basic and advanced software skills, developing a mission, goals, and the promotion and maintenance of a website.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Website Design.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Demonstrate skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIMW 220	Web and Mobile 3D/2D Animation: Adobe Flash	3
or		
CIMW 220A/B*	Web Animation: Flash—Beginning/Intermediate	1.5, 1.5
CIMW 100A*/B*	Web Site Development: HTML — Beginning/Advanced	1.5, 1.5
CIM 274A	Web Digital Imagery: Photoshop — Beginning	1.5
CIMW 110A*/B*	Creating Web Pages: Dreamweaver — Beginning/Advanced	1.5, 1.5
CIMW 280‡	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	6
Total Units for the Certificate		18

Restricted Electives:

CIMW 105	Web Development and DB: Intro SQL and MYSQL	3
CIMW 245*	Web Development: PHP & CMS/Word Press E-Commerce	3
CIMW 250A*	Microsoft ASP.NET — Beginning	3.5
CIMW 260	Web Development: Javascript, Frameworks, jQuery, AJAX	3
CIMW 240*	Web 2.0 Design: Cascading Style Sheets	3
CIM 274B*	Web Digital Imagery: Photoshop — Advanced	1.5
CIMW 235	Web Development: Adobe Fireworks	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description

‡Final course to be taken

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Webmaster Certificate and Degree Program

The Webmaster Certificate program prepares the student to build and administer a website and set up and maintain its web server. Students learn the technical aspect of server-level concerns of web construction and management to efficiently run websites in business and government organizations or for individuals. Topics include networking, security, web development, and database administration.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of website design and administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Demonstrate skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIMP 7A	Business Programming: Java — Beginning	3
CIMN 230	Computer Operating Systems: Unix/Linux	3
CIMN 200	Introduction to Networking	3
CIMN 210	Networking Essentials and Technologies	3.5
CIMW 250A*	Microsoft ASP.NET — Beginning	3.5
CIMW 280#	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	3
Total Units for the Certificate		20.5

Restricted Electives:

CIMW 240*	Web 2.0 Design: Cascading Style Sheets	3
CIMP 7B*	Business Programming: Java — Advanced	3
CIMW 100A*	Web Site Development: HTML Beginning	1.5
CIMW 105	Web Development and DB: Intro SQL and MYSQL	3
CIMN 240*	Fundamental Unix/Linux System Administration	3
CIMN 250*	Network and Security Administration using Unix/Linux	3
CIMW 250B*	Microsoft ASP.NET — Advanced	3.5
CIMS 200*	Information Security Fundamentals	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#Final course to be taken

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Information Security: Security Occupational Skills Award

The Information Security: Security Occupational Skills Award provides the opportunity to master the necessary computer information security concepts to successfully implement various InfoSec security strategies.

Course ID	Title	Units
CIMS 200*	Information Security Fundamentals	3
CIMS 210	Network Defense and Countermeasures	3
CIMS 220	Information Security Management	3
CIMS 230	Security+	3
CIMS 250	Cyberlaw	3
Total Units for the Award		15

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Office & Computer Skills Occupational Skills Award

An introduction to office procedures and basic skills needed for employment in today's office environment. Areas of study include: office environment, organizational structure, computer skills, business math, filing, and records management.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of office administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID	Title	Units
CIMA 283A	Office Skills: Office Procedures	2.5
CIMA 283B	Office Skills: Keyboarding	.5
CIMA 283D	Office Skills: Windows	.5
CIMA 283E	Office Skills: Word Processing (Word)	.5
CIMA 283F	Office Skills: Spreadsheets (Excel)	.5
CIMA 283G	Office Skills: Desktop Presentation for Business (PowerPoint)	.5
CIMA 283H	Office Skills: Database (Access)	.5
CIMA 283J	Office Skills: Desktop Publishing (Publisher)	.5
or		
CIMA 283K	Office Skills: Business Email (Outlook)	.5
Total Units for the Award		6

Computer Maintenance Technology Certificate and Degree Program

The Computer Maintenance Technology Certificate program prepares the student for entry-level employment as a computer technologist or computer technician in companies involved in the manufacture, installation, repair, maintenance, upgrading, or sales of personal computers and hardware for personal computers and computer networks.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate proper use of measures and procedures to protect personal computer hardware against damage due to electrostatic discharge (ESD).

- State and demonstrate software and hardware troubleshooting skills and procedures for personal computers.
- State, compare, and contrast the major features and tools in modern PC operating systems.
- Describe the functions and performance specifications of the major hardware items in a PC.

Course ID	Title	Units
CIM 1 or	Introduction to Computer Information Systems	3
CIM 10 ⁺	Introduction to Information Systems	3
CIM 174+	Computer Operating Systems: Windows	3
CMT 215 or	Electronics for Computer Technologists	3
ET 101 or	Survey of Electronics	3
ET 133	DC and AC Fundamentals	4
CMT 220*	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3
Total Units for the Certificate		21-22

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: CIM 227, 251, 252; ET 114

Computer Science Associate Degree Program

The curriculum in the Computer Science Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering a major in computer science, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply critical thinking skills in the analysis of a variety of programming problems.
- Create a correctly functioning program from a previously designed solution to a given programming problem.
- Complete a programming project with multiple programs, working individually and as part of a group.

Course ID	Title	Units
CS 1A	Introduction to Computer Science	3
CS 1B*	Introduction to Programming	3
CS 1C*	Advanced Programming	3
CS 1D*	Data Structures	3
CS 3A*	Computer Organization and Machine Language	3
CS 3B*	Computer Organization and Assembly Language	3
MATH 3A*	Analytic Geometry and Calculus	5

MATH 3B*	Analytic Geometry and Calculus	5
	Select from Restricted Electives	3-4
Total Units for the Major		31-32

Restricted Electives:

CS 4A*	Introduction to Java for Computer Science	3
CS 4B*	Advanced Topics in Java for Computer Science	3
ET 114*	Digital Electronic Circuits	4

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: MATH 3C, 24, 26.

Construction Inspection Certificate and Degree Program

This program is designed to provide technical and theoretical knowledge of construction and secure employment as in-house, agency, city, county, or state building safety inspector.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate working knowledge of either the locally adopted International Building Code or the Residential Building Code.
- Apply inspection techniques required in one of the following areas: concrete inspection, plumbing inspection, mechanical inspection, electrical inspection, general building code inspection.
- Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.

Course ID	Title	Units
ARCH 161	Blueprint Plans and Specification Reading	4
ARCH 163	International Building Code Inspection	4
ARCH 164*	Combination Residential Dwelling Inspection	3
ARCH 165	Electrical Code Inspection	3
ARCH 211	Concrete Inspection	3
ARCH 212	Plumbing Codes — Drains, Waste, Vents, Water, and Gas	3
ARCH 213	Mechanical Codes — Heating, Air Conditioning, Refrigeration, and Ductwork	3
Total Units for the Certificate		23

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: MATH 351.

Consumer Services Certificate and Degree Program

The Consumer Services program prepares students for a wide variety of employment opportunities that link the consumer, business, and government and improve communication among all three groups. This includes acting in a responsible manner to consumer problems and trends and providing information so that the consumer can use the products and services of a company correctly and with maximum benefits.

This program offers coursework for professional improvement and retraining as well as core courses to be utilized as transfer courses for students pursuing a Bachelor's degree in programs involving Family and Consumer Sciences/Home Economics, Business/Credit Counseling, or Consumer Affairs.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and analyze current research on a consumer topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and their impact on consumer behaviors.
- Demonstrate competence in dealing with consumer complaints.

Course ID	Title	Units
BUS 125	Human Relations in Business	3
BUS 160	Entrepreneurship	3
CIM 112	Microsoft Office	3
FCS 115	Consumer Issues	3
FCS 142	Life Management	3
CWE 180*	Cooperative Work Experience: Consumer Services	2
	Select one Specialty Area	6-7
Total Units for the Certificate		23-24

Specialty Area 1— Foods and Nutrition:

FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3

Specialty Area 2 — Interior Design:

ID 110	Fundamentals of Interior Design	3
ID 116	Interior Materials and Products	4

Specialty Area 3 — Fashion:

FASH 31/BUS 31	Textiles	3
FASH 150	Fashion Apparel and Professional Techniques	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 12, 103, 104, 135, 137; FN 64, 160, 171.

Cosmetology

Cosmetology Certificate Program

The Cosmetology program consists of sixteen hundred (1600) hours of intensive training and study designed to prepare the student to take the California State Board of Cosmetology ex-amination for licensure. Units include theory and practice in fundamental skills in all phases of beauty culture. Assignment of units is based on hours in attendance. See the Course Description portion of the Catalog for prerequisite requirements for admission to the program.

Transfer students will be accepted on a space-available basis providing they have not achieved more than 500 certified hours of training.

A career in cosmetology offers men and women personal satisfaction in one of the nation's largest service industries. It provides a pleasant environment with year-round employment and full-time and part-time employment opportunities. Licensed graduates may be employed as hair dressers, salon managers or owners, hair coloring specialists, hair stylists, make-up artists, facial specialists, manicurists, nail technicians, wig stylists, manufacturers' field representatives, demonstrators and lecturers, receptionists, laboratory technicians, and cosmetic buyers.

Students enrolling in the Cosmetology Program are required to purchase an equipment kit that will be used during the program.

This program is offered on an open enrollment basis, and a waiting list may be maintained for those students who desire to enroll. Interested students should contact the Advanced Technology and Applied Science division office

Program Student Learning Outcomes

Students who complete this program will be able to:

- Project a positive attitude and a sense of personal integrity and self-confidence.
- Respect the need to deliver worth service for value received in an employer-employee relationship.
- Practice effective communication skills, visual poise, and proper grooming.
- Perform basic manipulation skills in the areas of hairstyling, hair shaping, hair coloring, texture services, scalp and hair conditioning, skin and makeup, manicures, pedicures and nail extensions.
- Perform basic analytical skills to determine proper makeup, hairstyle and color application for the clients overall image.
- Apply learned theory, technical information and related matter to assure sound judgments, decisions and procedures.

Course ID	Title	Units
COS 410A	Cosmetology Freshman—Level 1 (400 hours)	12
COS 410B*	Cosmetology Intermediate—Level 2 (400 hours)	12
COS 410C*	Cosmetology Advanced—Level 3 (400 hours)	12
COS 410D*	Cosmetology Senior—Level 4 (400 hours)	12
Total Units for the Certificate (1,600 hours)		48

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

The Cosmetology Certificate Program is a nondegree-granting program; the courses in this program may not be used to satisfy Associate degree major elective unit requirements.

Cosmetician Occupational Skills Award

The Cosmetician Occupational Skills Award is designed to prepare the student for licensure as a Cosmetician/Esthetician. The student will be able to administer skin care to clients at salons, spas, dermatology offices, private clinics, and stores specializing in skin care products.

Course ID	Title	Units
COS 440	Cosmetician	16
Total Units for the Award		16

Culinary Arts

(ALSO SEE FOODS)

The Culinary Arts courses are designed to train students for careers in catering, chef training, and restaurant operations, as well as for promotion of foods, equipment, and products. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a bachelor's degree in Family and Consumer Sciences/Home Economics with a Foods emphasis.

Advanced Culinary Arts Certificate and Degree Program

The Advanced Culinary Arts program prepares students for many contemporary employment opportunities within the restaurant and hospitality industries.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for entry level employment in the hospitality industry.
- Demonstrate basic fundamental knowledge and skills related to the culinary arts.
- Demonstrate competence in food production while using safety and sanitation protocol necessary for employment in the culinary arts.

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
<i>and</i>		
FN 261* †	Internship	1
FN 50	Fundamentals of Nutrition	3
<i>or</i>		
FN 205	Nutrition for Culinary Professionals	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 142*	Classical French Cuisine	2
FN 171	Sanitation and Safety	2
<i>or</i>		
FN 210	Servsafe in Food Production	1
FN 173*	Catering and Banquets	3
FN 240*	Culinary Principles I	3
FN 241*	Culinary Principles II	3
FN 244*	Baking Fundamentals I	3
FN 245	Baking Fundamentals II	2
FN 246*	Pantry	3
FN 275	Food and Beverage Operations	3
	Select from Restricted Electives	6
Total Units for the Certificate		41-42

Restricted Electives:

FN 140*	Cultural Cuisine	2
FN 220*	French Bistro Cuisine	2
FN 222*	Chinese Cuisine	2
FN 223*	Asian Cuisine	2
FN 226*	Mexican Cuisine	2
FN 227*	Mediterranean Cuisine	2
FN 228*	Italian Cuisine	2
FN 230*	Vegetarian Cuisine	2
FN 232*	Techniques of Healthy Cooking	2
FN 236*	American Regional Cuisine	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 104*, 135, 136, 160; FN 64, 160; FCS 115, 142.

Basic Culinary Arts Certificate and Degree Program

The Basic Culinary Arts program prepares students for many contemporary employment opportunities. These include Chef, Cook, Specialty and Ethnic Restaurant Operations, Food and Beverage Service, Fast Foods Operations, and Food Service in schools and day-care centers for the young and elderly.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for employment in the food service industry.
- Demonstrate practical skills in a wide variety of applications related to the food service.
- Demonstrate proficient safety and sanitation production practices as related to the food service industry.

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
<i>and</i>		
FN 261* †	Internship	1
FN 50	Fundamentals of Nutrition	3
<i>or</i>		
FN 205	Nutrition for Culinary Professionals	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 171	Sanitation and Safety	2
<i>or</i>		
FN 210	Servsafe in Food Production	1
FN 240*	Culinary Principles I	3
FN 241*	Culinary Principles II	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
	Select from Restricted Electives	4-6
Total Units for the Certificate		29-32

Restricted Electives:

FN 220*	French Bistro Cuisine	2
FN 222*	Chinese Cuisine	2
FN 226*	Mexican Cuisine	2
FN 227*	Mediterranean Cuisine	2
FN 230*	Vegetarian Cuisine	2
FN 236*	American Regional Cuisine	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 104*, 135, 136, 160; FCS 115, 142; FN 64, 140*, 142*, 160.

Catering Certificate and Degree Program

The Catering program is designed to prepare students for a wide variety of employment opportunities within catering operations as well as for developing and owning their own catering business.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for employment in the catering industry.
- Demonstrate proficient catering skills necessary for business operations.
- Demonstrate competence in the production of catered events.

Course ID	Title	Units
BUS 160	Entrepreneurship	3
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
<i>and</i>		
FN 261* †	Internship	1
FN 50	Fundamentals of Nutrition	3
<i>or</i>		
FN 205	Nutrition for Culinary Professionals	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 171	Sanitation and Safety	2
<i>or</i>		
FN 210	Servsafe in Food Production	1
FN 173*	Catering and Banquets	3
FN 240*	Culinary Principles I	3
FN 241*	Culinary Principles II	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
FN 275	Food and Beverage Operations Select from Restricted Electives	3 4
Total Units for the Certificate		38-39

Restricted Electives:

FN 140*	Cultural Cuisine	2
FN 220*	French Bistro Cuisine	2
FN 222*	Chinese Cuisine	2
FN 223*	Asian Cuisine	2
FN 226*	Mexican Cuisine	2
FN 227*	Mediterranean Cuisine	2
FN 228*	Italian Cuisine	2
FN 232*	Techniques of Healthy Cooking	2
FN 236*	American Regional Cuisine	2
FN 241*	Culinary Principles II	3
FN 245*	Baking Fundamentals II	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: FCS 115, 142; FN 64, 160.

Dance Associate Degree Program

The curriculum in the Dance Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Perform basic positions and qualities with body awareness and alignment specific to the dance technique given in class.
- Demonstrate proficiency by performing movement combinations specific to the technique given in class.
- Successfully demonstrate knowledge of dance terminology through writing and various forms of expression.
- Identify technical support through the staging of choreographic works in a dance performance.
- Create dances using phrasing, variations and other elements of design in choreography.
- Demonstrate knowledge of a particular dance form through a variety of written assignments which may include: critiques, internet research, reading assignments, essays, exams and/or discussions in class.

The following course of study must be completed to fulfill major requirements for the Associate Degree in Dance:

Course ID	Title	Units
DANC 9*	Choreography	3
DANC 10	Dance Production	
<i>or</i>		
DANC 11	Dance Rehearsal and Performance	2
DANC 52*	Ballet Dancing Level I	1-1.5
DANC 53*	Intermediate Ballet	1-1.5
DANC 55*	Modern Dance Level I	1-1.5
DANC 56*	Intermediate Modern Dance	1-1.5
DANC 58*	Jazz Dancing Level I	1-1.5
DANC 64	History of Dance	3
	Select from Restricted Electives	5.5-8
Total Units for the Major		18.5-23.5

Restricted Electives:

DANC 51, 54, 57, 59*, 60, 61*, 62*, 63, 65, 66, 67, 68; ETT 42; KNES 28.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Completion of the required courses in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Drafting Technology Certificate and Degree Program

The Drafting Technology program includes courses designed to provide a general background and specialized skills to help the student find employment in government and private enterprise, especially where drafting skills are required.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in 2 languages of mechanical drafting: AutoCAD and Solidworks.
- Demonstrate proficient drafting skills in 2 dimensional and 3 dimensional drawings.
- Demonstrate knowledge of annotation and dimensioning techniques used in producing drawings in the engineering and manufacturing fields.

Course ID	Title	Units
DR 23	Engineering Graphics	3
or		
DR 100	Fundamentals of Industrial and Mechanical Design	3
DR 50*/ARCH 50*	Introduction to Computer-Aided Drafting	3
DR 51*/ARCH 51*	Computer-Aided Drafting	3
DR 101*	Mechanical Design	3
DR 102	Mech Design and Marketing Portfolio	3
DR 120	Engineering Technology	3
DR 152*/ARCH 152*	Advanced Computer-Aided Design	3
DR 200*	3D Parametric Modeling – Solidworks	3
DR 201*	Advanced 3D Parametric Modeling — Solidworks	3
DR 202*	Geometric Dimensioning and Tolerancing	3
DR 203	Green and Sustainable Manufacturing Design	3
	Select from Restricted Electives	3
	Total Units for the Certificate	36
Restricted Electives:		
ET 101	Survey of Electronics	3
MFG 200*	Introduction to Rapid-Prototyping Technology	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Students who have completed one year of high school mechanical drafting, or equivalent, are exempt from taking DR 100.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ARCH 124A; CIM 1; CS 1A; GEOL 23/ENV 23; MATH 124, 251, 253, 255; PHYS 20.

Ecological Restoration Certificate Program

The certificate in Ecological Restoration trains students for a practical ecological application of appropriate techniques for a variety of ecological restoration projects. The projects may be carried out by industry or government agencies and may have specific legal requirements for implementation and proof of success. Students completing the certificate may be hired by local, county, state, or federal government; private consulting firms; or subcontractors hired by any of these agencies.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the major restoration techniques and identify the benefits and limitations of each approach.
- Develop a restoration plan for a specific site.
- Identify the regulatory and technical requirements for monitoring restoration sites.

Course ID	Title	Units
ECOL 201	Ecological Restoration Techniques	4
ECOL 202	Advanced Ecological Restoration Techniques	4
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
	Select from Restricted Electives	13
	Total Units for the Certificate	28

Restricted Electives:

CWE 180	Cooperative Work Experience: Ecological Restoration	1-2
ENV 24	Natural History of California	4
ENV 105*	Environmental Studies Internship	2
ENV 123	Water and Soil Conservation	3
ENV 202	Green Living	2
GEOG/GIS 110*	Introduction to Geographic Information Systems (GIS)	2
HORT 113	Soils and Fertilizers	3
HORT 116	Irrigation Systems	3
HORT 166	Ornamental Native Plants	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: ARCH 50/DR 50; ENV 106; GEOL 23/ENV 23.

Economics

Economics Associate Degree Program

The curriculum in the Economics Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this major, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Students who complete the Economics Program will be able to:
 - Define scarcity, and show how it relates to the concepts of choice and cost.
 - Outline the role of comparative advantage in exchange.
 - Describe and analyze the economy in quantitative terms using national income and employment data from the standpoint of current and constant dollars.
 - Utilize the demand and supply model and use the model to critically analyze real world examples.
 - Explain the role of prices in allocating goods, services and factors of production.

Course ID	Title	Units
ECON 2*	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
MATH 3A*	Analytic Geometry and Calculus	5
or		
MATH 11*	A Brief Course in Calculus	5
MATH 3B*	Analytical Geometry and Calculus	5
or		
MATH 10*	Introduction to Statistics	3
	Select from Restricted Electives	4-6
Total Units for the Major		18-22

Restricted Electives:

ACCT 1A, 1B; BUS 1, 104; CIM 1, 10; CS 1A; HIST 7, 8; MATH 3C, 24, 26; PS 11/ECON 11.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete units as described above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate in Arts Degree in Economics for Transfer

The Associate in Arts in Economics for Transfer program provides a foundation in economics and the mathematics necessary for upper-division economics for students planning to transfer into a baccalaureate program in economics. This background should provide students with the tools to successfully complete a bachelor's degree. Students who complete the Associate in Arts in Economics for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. An associate degree may support attempts to gain entry-level employment or promotion, but a baccalaureate or higher degree, which can be achieved through transfer, is recommended for those considering careers in the discipline.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Students who complete the Economics Program will be able to:
 - Define scarcity, and show how it relates to the concepts of choice and cost.
 - Outline the role of comparative advantage in exchange.
 - Describe and analyze the economy in quantitative terms using national income and employment data from the standpoint of current and constant dollars.
 - Utilize the demand and supply model and use the model to critically analyze real world examples.
 - Explain the role of prices in allocating goods, services and factors of production.

Course ID	Title	Units
Required Courses		
ECON 2*	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
MATH 10*	Introduction to Statistics	3
MATH 11*	A Brief Course in Calculus	5
OR		
MATH 3A*	Analytic Geometry and Calculus	5
OR		
MATH 3AH*	Honors Analytic Geometry and Calculus	5

GROUP A: Select one of the following courses (3-5 units)

MATH 24*	Elementary Differential Equations	4
CIM 10	Introduction to Information Systems	3
CS 1A	Introduction to Computer Science I	5
MATH 3B*	Analytic Geometry and Calculus	5
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
CIM 1	Computer Information Systems	4
BUS 104*	Business Communication	3

GROUP B: Select one of the following courses or any course from GROUP A not already used (3-5 units)

PS/ECON 11	International Political Economy	3
MATH 3C*	Analytic Geometry and Calculus	5
MATH 26*	Introduction to Linear Algebra	4
Total Units for the Major		20-24

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Education

(ALSO SEE CHILDHOOD DEVELOPMENT AND EDUCATION)

Electronic Technology

The Electronic Technology program serves three main purposes: (1) to provide certificate programs to prepare the student for a multitude of careers as an electronic technician, (2) to provide electronics skill upgrading or updating for improved job-related technical competency, and (3) to prepare students for transfer to university Engineering Technology or Industrial Technology programs.

The program curriculum and equipment are reviewed regularly by local electronics companies to ensure that the graduate can work effectively in the current electronics industry and adapt to new electronic products and technologies.

The three certificate programs available are: Analog and Digital Circuit Electronic Technology, Digital Electronic Technology, and General Electronic Technology.

Analog and Digital Circuit Electronic Technology Certificate and Degree Program

This program prepares the student for entry-level employment as an Electronic Technician in companies involved in the manufacture, testing, troubleshooting, and repair of analog and digital circuit hardware. Courses cover a wide variety of discrete and integrated circuits with many functions, technologies, physical implementations, frequency bands, and complexities to provide maximum flexibility for employment within the electronics industry.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge of common electronic components: identify, describe, and determine the performance of common analog and digital electronic components.
- Demonstrate knowledge of common electronic circuits: identify, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of electronics test equipment: show proper use of and connection to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- Demonstrate electronics troubleshooting skills: state and show troubleshooting skills and procedures for analog and digital electronics.
- Describe and determine the performance of common analog and digital electronic communication systems.

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
ET 200*	Digital Signal Processing and Microcontrollers	4
Total Units for the Certificate		20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: Any Electronic Technology course not taken in certificate program; CMT 220, 225, 230; MATH 7, 124, 251, 253; PHYS 2A, 2B, 20.

Digital Electronic Technology Certificate and Degree Program

This program prepares the student for entry-level employment as an Electronic Technician in companies involved in the manufacture, testing, installation, and repair of digital computers and related equipment. This certificate covers an introduction to computer software and repair.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge of common electronic components: identify, describe, and determine the performance of common analog and digital electronic components.
- Demonstrate knowledge of common electronic circuits: identify, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of electronics test equipment: show proper use of and connection to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- Demonstrate electronics troubleshooting skills: state and show troubleshooting skills and procedures for analog and digital electronics.
- Describe the main hardware and software components of a modern Windows based personal computer system.

Course ID	Title	Units
CMT 220*	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
ET 114*	Digital Electronic Circuits	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
ET 200*	Digital Signal Processing and Microcontrollers	4
Total Units for the Certificate		22

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: Any Electronic Technology course not taken in certificate; CMT 230; CS 1B, 3A, 3B; MATH 7, 124, 251, 253; PHYS 2A, 2B, 20.

General Electronic Technology Certificate and Degree Program

This program provides the student an education in the fundamentals of electronics and maximum flexibility to take elective courses of personal interest and complete a certificate in the shortest period of time. This program prepares the student for entry-level employment as an Electronic Technician at many companies.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify, describe, and determine the performance of common analog and digital electronic components.
- Draw, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of and connections to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- State and demonstrate troubleshooting skills and procedures for analog and digital electronics.

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
	Select from Restricted Electives	6-8
Total Units for the Certificate		18-20

Restricted Electives:

ET 118*	Electronic Communication Systems	4
ET 200*	Digital Signal Processing and Microcontrollers	4
ET 201	Robotic Fundamentals	2
ET 202*	Intermediate Robotics	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: Any Electronic Technology course not taken in certificate; CIM 10; CMT 220, 225, 230; MATH 7, 124, 251, 253, 255; PHYS 2A, 2B, 20.

Basic Analog and Digital Electronics Occupational Skills Award

The Basic Analog and Digital Electronics Occupational Skills Award documents successful completion of the beginning courses in the Electronic Technology certificates. This award establishes that the student has studied the basics of analog and digital electronics, both in theory and in laboratory testing and troubleshooting.

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 133	DC and AC Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
Total Units for the Award		12

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Emergency Medical Technician Occupational Skills Award

The Emergency Medical Technology curriculum is designed to prepare the student for licensure as an EMT. The course prepares the student to care for the sick and injured in the hospital, at the scene of an emergency, and/or during transport.

Course ID	Title	Units
EMT 207*	Emergency Medical Technician Procedures	11
EMT 207C*	Emergency Medical Technician Clinical Observation	.75
Total Units for the Award		11.75

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Engineering Associate Degree Program

The curriculum in the Engineering Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate understanding of classical mechanics (Newtonian mechanics).
- Use Newtonian mechanics to solve structural problems in a static environment.
- Demonstrate understanding of material properties when solving static equilibrium problems.

Course ID	Title	Units
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
Total Units for the Major		51

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

English

Associate in Arts Degree in English for Transfer

The English curriculum provides the transfer student the opportunity to earn an Associate in Arts in English for Transfer degree that will allow completion of both general education requirements and major preparatory course work. In addition, the selection of courses ensures the English major a broad perspective on the history of literature, coupled with the necessary writing, thinking, and research training essential for academic achievement. Students who complete the Associate in Arts Degree in English for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate writing fluency, critical thinking ability, and research skills. These skills will include grammar review as well as expository and persuasive writing instruction.
- Use skill and creativity along with critical judgment of literary forms as they compose their own nonfiction, short stories, novels, poems, plays, and screenplays
- Examine traditional literary themes and genres in courses addressing American, British and World literature, and students will explore contemporary themes and genres in courses such as African-American Literature, Ethnic Voices in Literature, and Women Authors. The broad spectrum of literature courses allows students to focus on a particular area of interest.

Course ID	Title	Units
Required Courses		
ENG 1B*	Principles of Composition II	3
ENG 25*	Introduction to Literature	3
Group A: Select two of the following courses (6 units)		
ENG 15A*	Survey of American Literature: 1620-1860	3
ENG 15B*	Survey of American Literature: 1860-Contemporary	3
ENG 17A*	Survey of English Literature: Beowulf to Romantic Movement	3
ENG 17B*	Survey of English Literature: Romantic Movement to the Present	3
ENG 21A*	World Literature: Ancient to 17th Century	3
ENG 21B*	World Literature: 17th Century to Modern Period	3
Group B: (3 units)		
ENG 3*	Introduction to Creative Writing	3
Group C: Select one of the following courses or any course from List A not already used (3-5 units)		
ENG 1A*	Principles of Composition I	4
SPAN 1*	Elementary Spanish	5
SPAN 2*	Elementary Spanish	5
SPAN 3*	Intermediate Spanish	5
JRN 2*	News Writing	3
BUS 104*	Business Communication	3
SP 30	Introduction to Oral Interpretation	3
TA 20	Theatre Appreciation	3
Total Units for the Major		18-20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

English Literature Associate Degree Program

The curriculum in the English Literature Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate writing fluency, critical thinking ability, and research skills. These skills will include grammar review as well as expository and persuasive writing instruction.
- Use skill and creativity along with critical judgment of literary forms as they compose their own nonfiction, short stories, novels, poems, plays, and screenplays.
- Examine traditional literary themes and genres in courses addressing American, British and World literature, and students will explore contemporary themes and genres in courses such as African-American Literature, Ethnic Voices in Literature, and Women Authors. The broad spectrum of literature courses allows students to focus on a particular area of interest.

Course ID	Title	Units
ENG 1A*	Principles of Composition I (meets AA Writing Proficiency requirement)	4
ENG 1B*	Principles of Composition II	3
	Select from Restricted Electives	12
Total Units for the Major		19

Restricted Electives:

ENG 15A*, 15B*, 17A*, 17B*, 18*, 19*, 20*, 21A*, 21B*, 27A*.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ENG 44, 52; HIST 4, 5; PHIL 1, 12. Completion of four college semesters, or the equivalent, of a foreign language is strongly recommended.

English as a Second Language Completion Certificate

BEGINNING LEVEL

The beginning level multiskills courses leading to a certificate prepare students for the next level by working on all four language skills, including reading, writing, speaking, and listening. Students acquire a practical communicative vocabulary, rudimentary skills in conversation, composition, and comprehension as well as an introduction to the American sound system.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate improvement in their grammar.
- Demonstrate improvement in their speaking and comprehension skills.
- Demonstrate improvement in their reading and vocabulary skills.
- Demonstrate improvement in their overall writing skills.

Course ID	Title	Hours
ESL 320	Beginning Multiskills I	99.6
ESL 321*	Beginning Multiskills II	99.6
ESL 322	Beginning Conversation	49.8
ESL 323*	Beginning Pronunciation	33.2
ESL 325*	Beginning Reading and Writing	49.8
Total Hours for the Certificate		332

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

INTERMEDIATE LEVEL-PRE COLLEGE

The intermediate level multiskills courses leading to a certificate prepare students for the next level by working on all four language skills, including reading, writing, speaking, and listening while acquiring a practical communicative vocabulary of approximately 1400-1800 words. Additionally students complete specialized courses designed to further develop skills in conversation, composition and comprehension as well as focus on intonation and sounds of American English.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate improvement in their grammar.
- Demonstrate improvement in their speaking and comprehension skills.
- Demonstrate improvement in their reading and vocabulary skills.
- Demonstrate improvement in their overall writing skills.

CORE COURSES

Course ID	Title	Hours
ESL 330*	Intermediate Multiskills I	99.6
ESL 331*	Intermediate Multiskills II	99.6
ESL 332*	Intermediate Conversation	49.8
ESL 333*	Intermediate Pronunciation	49.8
ESL 335*	Intermediate Writing I	49.8
or		
ESL 336*	Intermediate Writing II	49.8
and		
ESL 801*	Intermediate Writing II Lab	16.6
Total Hours for the Certificate		348.6- 365.2

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

ADVANCED LEVEL

The required advanced level multiskills courses leading to a certificate prepare students to mainstream academic or vocational courses by focusing on reading, writing, and grammar while acquiring a more academic vocabulary of an additional 300-500 words. Additionally, students have options within the two remaining required classes. One option is designed to further develop skills in conversation on a variety of topics, vocabulary including affixes, or nuances in pronunciation patterns of American English. The options within the second requirement expose students to American culture through film, literature, or simulated college lectures. These advanced courses transition into mainstream coursework.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate improvement in their grammar.
- Demonstrate improvement in their speaking and comprehension skills.
- Demonstrate improvement in their reading and vocabulary skills.
- Demonstrate improvement in their overall writing skills.

CORE COURSES

Course ID	Title	Hours
ESL 340*	Advanced Multiskills	99.6
ESL 342*	Advanced Conversation	49.8
ESL 343*	Advanced Pronunciation	49.8
and		
ESL 999*	ESL Laboratory	16.6

Select one Vocabulary course:

ESL 344*	Idioms and Expressions in American English	33.2
or		
ESL 354*	Vocabulary Skills for College	49.8

Select one Academic/Writing course:

ESL 350*	Essential Academic Skills	99.6
or		
ESL 346*	Advanced Writing for Work	49.8
or		
ESL 345*	Advanced Reading and Writing	49.8
and		
ESL 888*	ESL Skills Lab	16.6

Select one Grammar course with a lab

ESL 347*	Advanced Grammar Review	49.8
and		
ESL 999*	ESL Laboratory	16.6
or		
ESL 357*	Grammar Review for College	49.8
and		
ESL 999*	ESL Laboratory	16.6
	Select one Restricted Elective from below	49.8

Total Hours for the Certificate 348

Restricted Electives:

ESL 355*	ESL Reading for College: American Literature	49.8
ESL 358*	Listening and Notetaking Skills for College	49.8
ESL 359*	American Language and Culture through Film	49.8

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

Environmental Studies Associate Degree Program

Environmental Studies is an interdisciplinary program that provides students with an integrated and critical knowledge of the natural environment and the relationships and interactions humans have with it. The program provides students with the understanding that environmental challenges face every aspect of society, and it provides them with the skills needed to help solve these complex problems through cooperation and negotiation with the different and often competing stakeholders. The program combines classroom, laboratory, and field study instruction giving students a well-rounded preparation in the field of environmental studies.

The curriculum in the Environmental Studies Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate social responsibility by using critical thinking skills.
- Demonstrate scientific literacy and ability to engage in scientific inquiry concerning environmental issues through the evaluation and analysis of scientific literature, and presentation of results in written and oral form.
- Evaluate environmental impact of personal decisions on the local, regional, national, and global environment.

Course ID	Title	Units
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
	Select from Restricted Electives	13
	Total Units for the Major	20

Restricted Electives:

ENV 6*	Scarcity and Environment	3
ENV 23/GEOL 23	Environmental Geology	4
ENV 24	Natural History of California	4
ENV 25	Environmental Hazards to Health	3
ENV 30	Alternative Energy Technologies	3
ENV 37	Environmental Ethics	3
ENV 40	Environmental Law and Policy	3
ENV 105*	Environmental Studies Internship	2
CWE 180*	Cooperative Work Experience: Environmental Studies	1-2
ENV 106	Natural Resource Conservation	3
ENV 123/HORT 123	Water and Soil Conservation	3
GEOG/GIS 110*	Introduction to Geographic Information Systems (GIS)	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ANTH 2; ARCH 12; BIO 3A, 3B; CHEM 1A, 1B; CIM 1; CS 1A, 1B or higher programming course; GEOG 1; GEOL 1; HORT 166; PHYS 2A, 2B.

Sustainability Studies Occupational Skills Award

The goal of Sustainability Studies is to create ecologically and socially appropriate solutions to manage our human needs, impacts with the built environment, and the emerging green economy within the capacity of nature without compromising future generations. The goal is to educate students on the importance of sustainability and then train them how to become sustainable not only in their everyday lives, but in their careers as well. Students will be prepared to transfer to sustainability related programs at the university level, be at an advantage for jobs in the coming green economy, be positioned to develop new businesses and other employment opportunities, and become more engaged citizens.

Course ID	Title	Units
ENV 1	Introduction to Environmental Studies	3
ENV 6*	Scarcity and Environment	3
or		
ENV 37	Environmental Ethics	3
ENV 202	Green Living	2
	Select from Restricted Electives	6
	Total Units for the Award	14

Restricted Electives:

ENV 30	Alternative Energy Technologies	3
ENV 106	Natural Resource Conservation	3
ENV 123	Water and Soil Conservation	3

*Course has a prerequisite, corequisite, limitation, or recommendation preparation; see course description.

Ethnic Studies Associate Degree Program

The curriculum in the Ethnic Studies Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

The Ethnic Studies program is interdisciplinary in scope and will begin with a focus on the history, literature, and cultures of African Americans, Asian Americans, Chicanas(os)/Latinas(os), Middle Eastern Americans, and Native Americans. Courses also explore the relations of these cultures to each other and their relations to the dominant American culture in order to foster understanding about such topics as ethnicity, race, gender, sexuality/sexual orientation, class, and religion. Other groups which have been isolated in a similar manner from the dominant culture in the United States may be included in the Ethnic Studies Program.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the ethnic and cultural landscape of the United States.
- Articulate the historical, social, and cultural contexts of specific racial and ethnic groups within the United States.
- Describe the processes of racialization and social differentiation in historical and geographical context.
- Demonstrate an understanding of the various factors that play a role in the formation of cultural identity.
- Compare representations of borderlands, hybridity, migration, and diaspora from different cultures.
- Critically analyze power and inequality in a multiethnic and multicultural context.
- Analyze the major factors that influence cross-cultural understandings and interactions between ethnic and racial groups in the United States.

Select a minimum of 21 units from the following list of required Ethnic Studies classes. Many of these courses also fulfill general education course requirements.

Core Requirements

(Both courses are required for a major)

Course ID	Title	Units
CCS 1	Multicultural Experiences in the United States	3
CCS 2	Multicultural Identities in the United States	3

Breadth Requirements

Social and Behavioral Sciences	6
Humanities/Arts Perspective	6
Restricted Electives	3

Total Units for the Major 21

Social and Behavioral Sciences

Select six units from the following courses:

Course ID	Title	Units
ANTH 4	Native American Indian Cultures	3
ANTH 7	Indians of Southern California	3
CCS 10	Margins and Border Crossings	3
CD 117*	Teaching in a Diverse Society	3
HIST 21	Women in United States History: A Multicultural Perspective	3
HIST 33	The Political/Social History of the Chicanas(os)	3
HIST 81	African American History	3
HS 131	Multicultural and Diverse Population in the United States	3
PSYC 16*	Introduction to Cross-Cultural Psychology	3
SOC 6	Introduction to Asian Cultures in the United States	3
SOC 20/HIST 20	Ethnic Cultures of the United States	3

Humanities/Arts Perspective

Select six units from the following courses:

Course ID	Title	Units
ART 24	Indigenous Arts of the Americas	3
CTVR 7	Cross Cultural Cinema	3
ENG 24*	Ethnic Voices in Literature: The American Experience	3
MUS 27	History of Jazz	3
SL 101	Deaf Culture and Its History	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3
TA 110	Chicana(o)/Latina(o) Theatre	3

Restricted Electives

Select one course from the following:

ANTH 5, 21; ARAB 21*; ART 22, 23, 29; CHI 21*; DANC 64; HIST 27, 28, 30, 70, 71, 72, 74, 75, HIST/PS 80; JA 21*; KOR 21*; MUS 23; PHIL 10*; PSYC 16*; SPAN 21A*, 21B*.

*Course has a prerequisite, corequisite, limitation, or recommendation preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: FASH 144; KNES 28, 29.

Family and Consumer Sciences Certificate and Degree Program

The Family and Consumer Sciences program is designed to develop those skills necessary for gainful employment in the field of Home Economics. Combined with courses such as business, journalism, television, or advertising, the Family and Consumer Sciences curriculum can also fulfill the vocational objectives of those who want to use their background in business or communications. Those wishing to transfer to a four-year college and receive a Bachelor's degree in Family and Consumer Sciences/Home Economics should refer to the transfer program in the catalog and in the catalog of the intended college of transfer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and analyze current research on a consumer science topic.
- Use the psychology of advertising and the marketplace and identify motivations and trends.
- Develop a personal and/or family budget.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select from Restricted Electives	6
Total Units for the Certificate		<u>27</u>

Restricted Electives:

FASH 112*	Fashion Sewing — Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
FN 64	Nutrition Issues	3
FN 120*	Contemporary Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 171	Sanitation and Safety	2
FN 210	Servsafe in Food Production	1
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: FASH 120, 130, 140; FN 140, 142, 171.

Fashion Design

The Fashion Design program prepares students with the necessary skills to obtain positions in the design, apparel manufacturing, tailoring, pattern making, custom dressmaking, and related fields. Students may focus on one of the following certificate programs: Fashion Design and Advanced Fashion Design and Apparel Manufacturing. Many of the clothing courses can be utilized as transfer courses for those pursuing a Bachelor's degree in Family and Consumer Science (Home Economics) with a Clothing and Textiles emphasis. Refer also to the Transfer Patterns section of this catalog or of the intended college of transfer.

Advanced Fashion Design and Apparel Manufacturing Certificate Program

The Advanced Fashion Design and Apparel Manufacturing certificate prepares the Fashion design student to enter the apparel manufacturing field. It explores the fashion industry, studying the many career options available beyond design. It then goes deeply into pattern and clothing manufacturing. The student who completes the Fashion Design program and then completes this advanced program will not only be able to design clothing but will be able to participate in many of the manufacturing processes.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their advanced design skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
- Create a professional resume showcasing their advanced design skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 111*	Sewing for Fashion Design II	3
FASH 112*	Fashion Sewing — Advanced	3
or		
FASH 211*	Advanced Dressmaking & Custom Sewing	3
or		
FASH 120	Tailoring	3
FASH 113*	Couture Sewing	2
FASH 124*	Wearable Art	3
or		
FASH 240	Dye Processes on Fabrics	3
or		
FASH 205*	Corset Construction	3
FASH 130*	Flat Pattern Design	4
FASH 132*	Draping Fashion Designs	3
FASH 136*	Apparel Design	3
or		
FASH 251*	Designing for a Cause and Sustainable Fashion	3
or		
FASH 224	Accessory Design	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145*§/BUS 145*§	Internship	1
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 247	Special Events Participation	1
or		
FASH 254	Fashion in Southern California	1
FASH 234*	Advanced Pattern and Design Techniques	2
or		
FASH 238*	Advanced Draping and Fashion Design	2
or		
FASH 131*	CAD Patternmaking with Tukatech	3
FASH 235*	Designing for the Fashion Industry	2
FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principals — AIMS Certification	1
and		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1
	Total Units for the Certificate	48-49

Optional Lab/Studio

FASH 212*	Construction Lab	1
FASH 213*	Designer's Lab	1
FASH 214*	Couture Lab	1
FASH 216*	Costumer's Lab	1
FASH 219*	Dressmaking Lab	1
FASH 220*	Tailor's Lab	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180

«Take FASH 260 OR both FASH 204 and 225

Suggested coursework not required for the major: ART 42*; CIM 1; FASH 120*, 143, 147/BUS 147, 209*; GC 101; ETT 42.

Fashion Design Certificate and Degree Program

The Fashion Design program prepares the student for entry-level positions in the field of Fashion Design. They will be able to design clothing using the three major design procedures: flat pattern-making, draping on a dress form, and designing by sketching.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
- Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 111*	Sewing for Fashion Design II	3
FASH 112*	Fashion Sewing — Advanced	3
or		
FASH 124*	Wearable Art	3
or		
FASH 211*	Advanced Dressmaking & Custom Sewing	3
FASH 130*	Flat Pattern Design	4
FASH 132*	Draping Fashion Designs	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145*§/BUS 145*§	Internship	1
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 247	Special Events Participation	1
or		
FASH 254	Fashion in Southern California	1
FASH 260*«	The Digital Fashion Image	2
or		
FASH 204 «	Understanding Apparel Principals — AIMS Certification	1
and		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1
Total Units for the Certificate		36

Optional Lab/Studio

FASH 212*	Construction Lab	1
FASH 213*	Designer's Lab	1
FASH 214*	Couture Lab	1
FASH 216*	Costumer's Lab	1
FASH 219*	Dressmaking Lab	1
FASH 220*	Tailor's Lab	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§ Must be taken concurrently with CWE 180.

«Take FASH 260 OR both FASH 204 and 225.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 136, 138, 160; ETT 42; FCS 115; FASH 120*, 147, 209*, 221*, 230*, 235*.

Accessory Design Occupational Skills Award

The Accessory Design Occupational Skills Award prepares students with the skills necessary to become a successful designer of shoes, bags, millinery, jewelry, small leather goods, shawls, ties, pocket squares and other accessories. The curriculum prepares students with design skills, product development, technical skills, sourcing materials, and manufacturing the final goods. Students will experience designing a line of accessories and complete an internship/CWE related to the accessory design industry.

After completion of the skills award, students will be eligible for a position in the following areas: assistant accessory designer, accessory designer, shoe designer, high performance shoe designer, eye wear designer, milliner, handbag designer, small leather goods designer, technical designer for accessories, accessory product development, sourcing and manufacturing of accessories.

Course ID	Title	Units
FASH 100	Sewing for Fashion Design I	3
or		
FASH 217	Footwear Design and Construction	2
FASH 240	Dye Processes on Fabrics	3
FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principals — AIMS Certification	1
and		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1
CWE 180†	Cooperative Work Experience: Fashion	1
FASH 254	Fashion in Southern California	1
or		
FASH 207	Eco Friendly Fashion Tour	1
FASH 223	Millinery Design	3
FASH 224	Accessory Design	3
Total Units for the Award		15-16

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

«Take FASH 260 OR both FASH 204 and 225

Basic Costume Construction and Sourcing Occupational Skills Award

The Basic Costume Construction and Sourcing Occupational Skills Award prepares the student with the basic skills necessary to source and construct costumes for a costume designer working in the areas of: film, television, dance, theater/opera, theme parks, special events, cultural/ethnic costumes, costume shops, e-commerce, uniform/sports, and advertisement/promotion. Coursework covers material sourcing, costume, and underpinning construction for different audiences, costume history, textiles and dyeing, draping, pattern making, drafting, and an internship in the field.

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 31	Textiles	3

FASH 111*	Sewing for Fashion Design II	3
or		
FASH 221	Contemporary Tailoring	2
or		
FASH 206*	Designing/Constructing Knitwear, Activewear, Swimwear	3
FASH 132*	Draping Fashion Design	3
FASH 144	Fashion Trends	3
or		
ETT 42	Costume Design	3
FASH 205*	Corset Construction	3
or		
FASH 240	Dye Processes on Fabrics	3
or		
FASH 208*	Sewing Vintage Fashion	3
or		
FASH 223	Millinery Design	3
FASH 145*/BUS 145*Internship		1
Total Units for the Award		16-17

Optional Lab/Studio

FASH 216*	Costumer's Lab	1
FASH 220*	Tailor's Lab	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Fashion Technology Occupational Skills Award

The Fashion Technology Occupational Skills Award prepares students with skills and experience in the latest fashion technologies. This award is focused both on students entering into the fashion industry for the first time and students who are already fashion professionals who need to upgrade skills for career advancement and retention. Upon completion of this skills award students may acquire positions as: Fashion Designer or assistant designer, technical designer, textile surface designer, fashion web store designer, fashion entrepreneur, product development, apparel information manager, pattern maker, pattern grader, pattern marker maker, fashion CAD designer, fashion buyer, technology trainer for fashion industry and fashion merchandiser.

Course ID	Title	Units
FASH 131*	CAD Patternmaking with Tukatech	3
FASH 204	Understanding Apparel Principals — AIMS Certification	1
FASH 225	Apparel Cart: Fashion Retailing Online with Easy Shop	1
FASH 260*	The Digital Fashion Image	2
FASH 254	Fashion in Southern California	1
or		
FASH 207	Eco Friendly Fashion Tour	1
FASH 145*§/BUS 145*§ Internship		1
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
Total Units for the Award		10

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180

Sustainable Fashion and Social Entrepreneurship Occupational Skills Award

The Sustainable Fashion and Social Entrepreneurship Occupational Skills Award prepares the student with basic skills necessary to develop, design, source, and manufacture a socially and environmentally friendly line of clothing or accessories. Course work covers developing a line and designing for a cause, ethics of fashion, sourcing and manufacturing in an eco friendly way and marketing your line. Students will complete an internship and tour other eco friendly fashion industry leaders.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 130	Flat Pattern Design	4
or		
FASH 132	Draping Fashion Designs	3
FASH 136	Apparel Design	3
or		
FASH 251*	Designing for a Cause and Sustainable Fashion	3
or		
FASH 235	Designing for the Fashion Industry	2
FASH 145*§/BUS 145*§ Internship		1
and		
CWE 180†	Cooperative Work Experience: Fashion	1
FASH 240	Dye Processes on Fabrics	3
FASH 207	Eco Friendly Fashion	1
FASH 247	Special Events Participation	1
or		
FASH 254	Fashion in Southern California	1
Total Units for the Award		15-17

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180

Fashion Merchandising

The Fashion Merchandising program is designed to prepare professionally-trained individuals for the fashion industry. The program places emphasis on developing the fashion sense and the unique creativity of each student. The curriculum offers a comprehensive analysis of such subject areas as the manufacture, distribution, buying, and merchandising of fashion apparel.

The Fashion Merchandising program includes two certificates: Fashion Merchandising and Visual Fashion Merchandising.

Fashion Merchandising Certificate and Degree Program

The Fashion Merchandising certificate emphasizes all aspects of fashion merchandising including techniques of buying and selling, distributing and marketing, and promoting fashion goods. It combines a general merchandising background with training in specialized skills in order for students to find employment in today's fashion industry.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.

- Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143/BUS 143	Fashion Buying and Merchandising	3
FASH 140	Fashion Image	3
<i>or</i>		
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147/BUS 147	Special Events Coordination and Promotion	3
FASH 148/BUS 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 254	Fashion in Southern California	1
FASH 145*§/BUS 145*§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Fashion	1
	Select one course from each Group	8
Total Units for the Certificate		38

Group 1

BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Entrepreneurship	3

Group 2

FASH 260*«	The Digital Fashion Image	2
<i>or</i>		
FASH 204«	Understanding Apparel Principals — AIMS Certification	1
<i>and</i>		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1

Group 3

FASH 100	Sewing for Fashion Design I	3
FASH 110*	Contemporary Clothing Construction	3

Optional Lab/Studio

FASH 212	Construction Lab	1
FASH 219*	Dressmaking Lab	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180.

«Take FASH 260 OR both FASH 204 and 225.

Suggested coursework not required for the major: BUS 12, 103, 125, 135, 138, 150; CIMA 104; FCS 115; GD 140/ART 140, 147.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
- Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143/BUS 143	Fashion Buying and Merchandising	3
FASH 140	Fashion Image	3
<i>or</i>		
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147/BUS 147	Special Events Coordination and Promotion	3
FASH 148/BUS 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional	

Group 1

BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Entrepreneurship	3

Group 2

FASH 260*«	The Digital Fashion Image	2
<i>or</i>		
FASH 204«	Understanding Apparel Principals — AIMS Certification	1
<i>and</i>		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1

Group 3

FASH 100	Fashion Sewing-Beginning	3
FASH 110*	Contemporary Clothing Construction	3

Optional Lab/Studio

FASH 212	Construction Lab	1
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*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180.

«Take FASH 260 OR both FASH 204 and 225.

Completion of the above courses and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 12, 103, 125, 136, 137, 138; FCS 115; GC 101.

Visual Fashion Merchandising Certificate and Degree Program

The Visual Fashion Merchandising program explores interior and exterior displays with an emphasis on presentation of the products and on lighting and window design. Techniques and utilization of specialized materials in a diverse range of retail options are examined, as are the development of major presentations and overall store design.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the

completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.

- Create a professional resume showcasing their skills in Visual Fashion Merchandising. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID	Title	Units
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143/BUS 143	Fashion Buying and Merchandising	3
FASH 144	Fashion Trends	3
FASH 145*§/BUS 145*§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 147/BUS 147	Special Events Coordination and Promotion	3
FASH 148/BUS 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
	Select one course from each Group	5
Total Units for the Certificate		31

Group 1

ART 42*	Color Theory and Practice	3
ART 100	Art Gallery/Display and Exhibition	3
FASH 140	Fashion Image	3

Group 2

FASH 260*«	The Digital Fashion Image	2
<i>or</i>		
FASH 204«	Understanding Apparel Principals — AIMS Certification	1
<i>and</i>		
FASH 225«	Apparel Cart: Fashion Retailing Online with Easy Cart Shop	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180.

«Take FASH 260 OR both FASH 204 and 225.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ART 40, 41*, 50*, 80, 142/GD 142; BUS 138/CTVR 138; ETT 40; FASH 100, 254; GC 101; GD 141/ART 141; ID 110, 127*.

Event Planner Occupational Skills Award

The Event Planner Occupational Skills Award prepares the student with skills that are necessary to become a successful planner within the industry. The focus will be on details, vision, organization and the means to pull off both big and small events. Event Planners may work on a freelance basis, for an event planning company and/or nonprofit organization and for profit corporations. Coursework covers planning and directing an event from start to finish. This will include: promotions, music, hospitality, merchandise and/or vendors, stage, rentals, culinary, lighting, selecting a venue, budget, and an internship in the field.

Course ID	Title	Units
BUS 160	Entrepreneurship	3
FASH 145*§/BUS 145*§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 147/BUS 147	Special Events Coordination and Promotion (Spring & Fall)	3, 3
FASH 148/BUS 148	Visual Merchandising	3
Total Units for the Award		14

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180.

Fashion Stylist Occupational Skills Award

The Fashion Stylist Occupational Skills Award prepares the student with skills that are necessary to develop knowledge of fabrics, fit and trends to create a look that a client will display to the world. The student will use art, science, and psychology of dress to enhance their subjects and project an image. Coursework covers color, line, texture, principles of design, clothing quality and care, wardrobe planning and purchasing, dress codes, body types, face shapes, hair styles, and an internship in the field.

Course ID	Title	Units
BUS 160	Entrepreneurship	3
FASH 145*§/BUS 145*§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 140	Fashion Image	3
FASH 141	Apparel Selection	3
FASH 147/BUS 147	Special Events Coordination and Promotion	3
Total Units for the Award		14

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180

Fine and Applied Arts Associate Degree

The curriculum in the Fine and Applied Arts Associate Degree program provides the student the opportunity to design an interdisciplinary degree by selecting appropriate courses in the Fine or Applied Arts which may support attempts to gain entry-level employment in such areas as architectural drafting, graphics design, horticulture, interior design, photography and performing arts.

Select a minimum of 18 units from the following including a minimum of 12 units in one discipline:

Architecture	ARCH 10, 12, 34*, 42*, 44*, 124A/B*/C*, 136*
Art/ Graphic Design	ART 4, 9*, 10*, 11*, 12*, 13*, 20, 21, 22, 23, 24, 25, 26, 28, 29, 40, 41*, 42*, 50*, 51*, 52, 53*, 54*, 57*, 58*, 59*, 60*, 61*, 62*, 63, 70, 71*, 72*, 78, 79*, 80, 81*, 82*, 85*, 86*, 87*, 100, 120, 133*, 134*, 140, 141, 142, 145, GD 148*, 149*, 150*, 151, GC 63, 101
Cinema/Television/Radio	CTVR 3, 9, 31*, 32*, 40*, 42*, 100, 101, 110, 113, 124, 125, 128, 140, 191
Dance	DANC 9*, 51, 52*, 53*, 54, 55*, 56*, 57, 58*, 59*, 60, 61*, 62*, 64, 66

Entertainment & Theatre	ETT 40, 41*, 42, 45*, 100, 101, 102, 104, 130, 142, 144*, 201
Fashion	FASH 124*, 136*, 144, 154
Horticulture	HORT 7, 10, 11, 20, 106, 109, 115, 116, 130
Interior Design	ID 110, 111*, 112, 114, 122, 123*, 125, 126*, 127*, 133*
Music	MUS 1, 10*, 11*, 12*, 14*, 15*, 20, 23, 24, 25, 26, 27, 28, 29, 31*, 32*, 33*, 34*, 35*, 40*, 41*, 42*, 43*, 44, 46*, 47*, 50*, 51*, 52*, 54A/B, 55A/B*, 56*, 58*, 60, 61*, 62*, 63, 64*, 65*, 66*, 67, 75*, 80, 81*, 82*, 92*, 93*, 117*, 118, 148, 178*, 179*
Photography	PHOT 25, 50, 51*, 55*, 152*, 156*, 160*, 190*
Theatre Arts	TA 1, 2*, 3*, 4*, 5*, 10, 11, 12*, 15, 16, 17, 18, 19, 20, 22, 25, 26, 30, 32*, 35, 110, 113, 290
Total Units for the Major <u>18</u>	

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Foods Certificate and Degree Program

(ALSO SEE CULINARY ARTS)

The Foods program is designed to train students for career applications in the food and hospitality industries such as with food companies, food-related businesses and industries, and restaurants. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a Bachelor's degree in Family and Consumer Sciences/Home Economics with a Foods emphasis.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Complete an assessment of an individual nutritional status.
- Identify and analyze current research on a foods & nutrition topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and food & nutrition habits impact on nutrition.
- Demonstrate competence in food production.

Course ID	Title	Units
FN 50	Fundamentals of Nutrition	3
<i>or</i>		
FN 205	Nutrition for Culinary Professionals	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3

FN 171	Sanitation and Safety	2
<i>or</i>		
FN 210	Servsafe in Food Production	1
FN 232*	Techniques of Healthy Cooking	2
FN 240*	Culinary Principles I	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
FN 261*+§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
FN 275	Food and Beverage Operations	3
	Select from Restricted Electives	6-7
Total Units for the Certificate		33-35

Restricted Electives:

FN 142*	Classical French Cuisine	2
FN 173*	Catering and Banquets	3
FN 220*	French Bistro Cuisine	2
FN 222*	Chinese Cuisine	2
FN 223*	Asian Cuisine	2
FN 226*	Mexican Cuisine	2
FN 227*	Mediterranean Cuisine	2
FN 228*	Italian Cuisine	2
FN 236*	American Regional Cuisine	2
FN 241*	Culinary Principles II	3
FN 245*	Baking Fundamentals II	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180 during the last semester of the program.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Complete an assessment of an individual nutritional status.
- Identify and analyze current research on a foods & nutrition topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and food & nutrition habits impact on nutrition.
- Demonstrate competence in food production.

Course ID	Title	Units
FN 50	Fundamentals of Nutrition	3
<i>or</i>		
FN 205	Nutrition for Culinary Professionals	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 171	Sanitation and Safety	2
<i>or</i>		
FN 210	Servsafe in Food Production	1
FN 232*	Techniques of Healthy Cooking	2
FN 240*	Culinary Principles I	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
FN 261*+§	Internship	1
<i>and</i>		
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
FN 275	Food and Beverage Operations	3
	Select from Specialty Courses	6-7
Total Units for the Major		33-35

Specialty Courses:

FN 142*	Classical French Cuisine	2
FN 173*	Catering and Banquets	3
FN 220*	French Bistro Cuisine	2
FN 222*	Chinese Cuisine	2
FN 223*	Asian Cuisine	2
FN 226*	Mexican Cuisine	2
FN 227*	Mediterranean Cuisine	2
FN 228*	Italian Cuisine	2
FN 232*	Techniques of Healthy Cooking	2
FN 236*	American Regional Cuisine	2
FN 241*	Culinary Principles II	3
FN 245*	Baking Fundamentals II	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

§Must be taken concurrently with CWE 180 during the last semester of the program.

Completion of the courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

French Associate Degree Program

The French Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in French. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of French vocabulary.
- Use proficient conversational skills in French.
- Read and write in French.
- Demonstrate introductory cultural and historic knowledge of French speaking people.

<i>Course ID</i>	<i>Title</i>	<i>Units</i>
FR 1*	Elementary French	5
FR 2*	Elementary French	5
FR 3*	Intermediate French	5
FR 4*	Intermediate French	5
FR 901*	French Language Lab	.25
FR 902*	French Language Lab	.25
FR 903*	French Language Lab	.25
FR 904*	French Language Lab	.25
	Select one course from Restricted Electives:	3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3

ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

General Education (IGETC or CSU-GE) Certificate of Achievement

Students may earn a certificate of achievement in general education upon completion of a pattern of approved courses intended for transfer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the values of a culture as expressed through its art or language.
- Demonstrate effective expository and persuasive writing skills.
- Develop a reasoned solution to a problem.
- Evaluate new and accepted ideas about the natural universe using testable methodology.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of a minimum of 37 units including all requirements of the Intersegmental General Education Transfer Curriculum.

California State University General Education Certification (CSU-GE)

Completion of a minimum of 39 units including all of the requirements of the California State University General Education certification.

SEE THE ARTICULATION/TRANSFER PATTERN SECTION OF THE CATALOG FOR A LIST OF SPECIFIC COURSE REQUIREMENTS

General Studies Associate Degree

The General Studies Associate degree provides an opportunity for students to earn a comprehensive Associate of Arts (AA) and is intended for the student who may not be planning to transfer to a university in the near future. Completion of an associate degree may support efforts to gain entry-level employment or promotion.

The General Studies Associate degree provides an opportunity for students to earn a comprehensive Associate of Arts (AA) and is intended for the student who may not be planning to transfer to a university in the near future. Completion of an associate degree may support efforts to gain entry-level employment or promotion.

Students planning to transfer to California State University (CSU), the University of California (UC) or an institution which accepts certification should complete general education requirements for the associate degree by completing CSU General Education (CSU-GE) certification requirements or the Intersegmental General Education Transfer Curriculum (IGETC) (37-39 units).

Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the values of a culture as expressed through its art or language.
- Demonstrate effective expository and persuasive writing skills.
- Develop a reasoned solution to a problem.
- Evaluate new and accepted ideas about the natural universe using testable methodology.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.

Select 18 units from one of the following areas of emphasis:

FINE ARTS AND HUMANITIES

Students develop aesthetic understanding including an appreciation of philosophical, historical, and cultural importance and an awareness of the ways in which people responded to themselves and the world around them. Included are artistic and cultural creations and the development of aesthetic understanding and an ability to make value judgements.

ARAB 1*, 2*, 21*
 ARCH 12
 ART 4, 20, 21*, 22*, 23*, 24*, 25, 26, 28, 29*
 CHI 1*, 2*, 21*
 CTVR 3, 9*
 DANC 64
 ENG 3*, 4*, 15A*, 15B*, 17A*, 17B*, 18*, 19*, 20*, 21A*, 21B*, 24*, 25*, 27A*, 44*, 52*, 142*
 FASH 144*
 FA 27
 FR 1*, 2*, 3*, 4*
 GER 1*, 2*, 3*, 4*
 HIST 4, 5
 HORT 115
 HUM 1*, 3*, 10A*, 10B*, 21, 22*, 25*
 ID 110, 122, 125
 ITA 1*, 2*, 3*, 4*, 21*
 JA 1*, 2*, 21*
 KOR 21*
 MUS 1, 20, 23*, 24, 25, 26, 27, 28, 29*
 PHIL 1*, 10*, 15*
 PHOT 25
 PRSN 1*, 2*, 3*, 4*
 SL 1*, 2*, 3*, 4*
 SP 30/TA 30, SP 32*/TA 32*
 SPAN 1*, 2*, 3*, 4*, 6*
 TA 20, 22, 25, 26, 110*

Total Units for the Major **18**

NATURAL SCIENCES

Students will develop an appreciation and understanding of the scientific method and an understanding of the relationships between science and other human activities.

ANTH 1 and 1L*(ANTH 1L must be taken concurrently with ANTH 1 or within one year after completing ANTH 1)
 ASTR 20 and 25 combined
 BIO 3A*, 3B*, 11*, 15*, 19*, 20, 113
 CHEM 1A*, 3*, 108*
 ENV 18, 24
 GEOG 1 and 1L* (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)

GEOG 1, 20, 23/ENV 23
 HORT 20
 MS 4, 20
 PHYS 2A*, 4A*, 20

Total Units for the Major **18**

SOCIAL AND BEHAVIORAL SCIENCES

Courses will stimulate critical skills about the ways people act and have acted in response to their societies and will promote appreciation of how societies and social subgroups operate.

ANTH 2*, 3*, 4*, 5, 8, 9, 10, 17, 21*
 BUS 1
 CD 105*, 107*
 CCS 1*, 2*, 10*
 ECON 2*, 4*, 20
 ENV 1
 GEOG 2*, 3
 HIST 12*, 19, 20*/SOC 20*, 21*, 27*, 28*, 30*, 33*, 61*, 62, 63, 70*, 71*, 72*, 74*, 75*, 80*/PS 80*, 81*
 HS 100, 120
 JRN 1/CTVR 1
 PS 4, 11/ECON 11; PS 12*, 14*
 PSYC 1, 7*, 16*, 21*
 SOC 1, 2, 6*, 10, 15*, 21*, 25*
 SP 20*
 WS 10*

Total Units for the Major **18**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Geography

Associate in Arts Degree in Geography for Transfer

The curriculum in the Geography program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Geography for Transfer by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework along with courses required for general education. Students who complete the Associate in Arts Degree in Geography for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate map literacy.
- Identify and describe a location (place) based on characteristics that distinguish them from other places on earth.
- Identify and describe movement of geographic phenomena.

Course ID	Title	Units
Required Courses (6-7 units)		
GEOG 1	Physical Geography	3
or		
GEOG 1	Physical Geography	3
and		
GEOG 1L*	Physical Geography Laboratory	1
GEOG 2	Cultural Geography	3
Group A: Select two to three of the following courses (6-8 units)		
GEOG 1L*±	Physical Geography Laboratory	1
GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GEOG 110*	Introduction to Geographic Information Systems	2
GEOG 102	Geography Field Studies	1
GEOG 106	Field Studies of Desert Regions	1
GEOG 107	Field Studies of Mountain Areas	1
GEOG 108	Field Studies of Western North America	2
Group B: Select two of the following courses or any course from Group A not already used (6-10 units)		
CS 1B*	Introduction to Computer Science II	5
MATH 3A*	Analytic Geometry and Calculus	5
GEOL 20	Introduction to Earth Science	4
PS 1	American Government	3
CHEM 1A*	General Chemistry	5
ANTH 2	Cultural Anthropology	3
GEOL 1	Introduction to Physical Geography	4
Total Units for the Major		18-25

±Course must be taken if not taken in the required core.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Geography Associate Degree Program

The curriculum in the Geography Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate map literacy.
- Identify and describe a location (place) based on characteristics that distinguish them from other places on earth.
- Identify and describe movement of geographic phenomena.

Course ID	Title	Units
GEOG 1	Physical Geography	3
GEOG 1L*	Physical Geography Laboratory	1
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
	Select from Restricted Electives	9-13
Total Units for the Major		19-23

Restricted Electives:

ANTH 1, 2; GEOG 38; GEOL 1; HIST 4, 5, 32; PS 11/ECON 11, PS 14.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Geology Associate in Science Degree in Geology for Transfer

The curriculum in the Geology program is designed to provide the transfer student the opportunity to achieve an Associate in Science in Geology for Transfer degree by providing the necessary background in quantitative reasoning as well as physical and earth sciences. This background should provide students with the tools to successfully complete a bachelor's degree in Earth Science, Geology, or Geophysics. Students who complete the Associate in Science Degree in Geology for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Recognize and explain the role of fundamental geologic principles, such as plate tectonic theory and deep time, in the interpretation of observed geologic phenomena.
- Research, evaluate, and cite scientific information in order to formulate coherent summaries of earth processes.
- Define the scientific method and apply it to observed geologic phenomena.
- Interpret geologic processes using underlying chemical properties and physical laws.

Course ID	Title	Units
Required Courses		
GEOL 1	Introduction to Physical Geology	4
GEOL 2	Historical Geology	4
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
Total Units for the Major		28

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Geology Associate Degree Program

The curriculum in the Geology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Recognize and explain the role of fundamental geologic principles, such as plate tectonic theory and deep time, in the interpretation of observed geologic phenomena.
- Research, evaluate, and cite scientific information in order to formulate coherent summaries of earth processes.

- Define the scientific method and apply it to observed geologic phenomena.
- Interpret geologic processes using underlying chemical properties and physical laws.

Course ID	Title	Units
First Year — Fall Semester		
CHEM 1A*	General Chemistry	5
GEOL 1	Introduction to Physical Geology	
or		4
GEOL 20	Introduction to Earth Science	
MATH 2*	Pre-Calculus (required of students unprepared for MATH 3A*)	5
Spring Semester		
CHEM 1B*	General Chemistry	5
GEOL 2*	Historical Geology	4
MATH 3A*	Analytic Geometry and Calculus	5
Second Year — Fall Semester		
BIO 3A*	General Biology I	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 2A*	Introduction to Physics	
or		5
PHYS 4A*	General Physics	
Spring Semester		
PHYS 2B*	Introduction to Physics	
or		5
PHYS 4B*	General Physics	
Total Units for the Major		43-48

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: GEOL 3, 4, 7, 23; DR 100 (if mechanical drafting not taken in high school).

German Associate Degree Program

The German Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in German. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of German vocabulary.
- Use proficient conversational skills in their language of study.
- Read and write in German.
- Demonstrate introductory cultural and historic knowledge of German speaking people.

Course ID	Title	Units
GER 1*	Elementary German	5
GER 2*	Elementary German	5
GER 3*	Intermediate German	5
GER 4*	Intermediate German	5
GER 901*	German Language Lab	.25
GER 902*	German Language Lab	.25
GER 903*	German Language Lab	.25
GER 904*	German Language Lab	.25
Select one course from Restricted Electives:		3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Gerontology Certificate Program

A multidisciplinary approach to the study of aging, the aging population, the aging process, and society's response to the increasing population of older individuals. Biological, sociological, and psychological aspects of aging are explored. The coursework provides students with information as well as training to work in services and agencies that interact and assist older individuals.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Define and explain the key concepts associated with the study of aging and the study of Gerontology.
- Identify and explain the physical, social, familial, and community support networks for aging individuals.
- Explain the changes in the roles and activities of the elderly historically and in contemporary society.
- Compare and contrast the three main sociological theories as they apply to the study of Gerontology.
- Apply social theories to analyze current and historical topics associated with the study of aging and gerontology.
- Evaluate current social research on the study of aging and gerontology.

- Describe the role that culture plays in aging.
- Explain how various social locations such as class, race, gender, age, and sexuality are vital to the study of aging and gerontology and may result in social inequality.
- Identify specific social problems aging adults experience and explain their cause-effect patterns.
- Explain the demographics trends of aging.
- Identify the life cycle transitions.
- Explain the role that politics, voting, and activism have on the older population.
- Identify and evaluate community support services and agencies focused on the aging community.
- Explain and analyze the various social policies that affect the elderly.
- Explain end-of-life issues and decisions, the current death system, and the challenges of the death system.
- Explain and analyze issues of bereavement, grief, and mourning.
- Research and critically analyze specific topics on death and dying.

Course ID	Title	Units
Core/Required Courses		
PSYC 125*	Psychology of Aging	3
SOC 125*	Sociology of Aging	3
SOC 126*	Death and Dying	3
SOC 180	Introduction to Gerontology	3
	Select from Restricted Electives	6-9
Total Units for the Certificate		18-21

Restricted Electives

APSY 151	Human Relationships	3
ANTH 2	Cultural Anthropology	3
CCS 2	Multicultural Identities in the United States	3
FN 50	Fundamentals of Nutrition	3
FN 64	Nutrition Issues and Controversies	3
FN 161	Nutrition for Health Occupations	2
FN 171	Sanitation and Safety	3
GEOG 3	World Regional Geography	3
HLTH 1	Contemporary Health Issues	3
HS 100	Human Services in a Changing Society	3
HS 140	Group Leadership and Group Process	3
HS 285	Ethical Issues/Clients' Rights	3
KNES 28	Yoga	1, 1.5
KNES 29	Tai Chi Ch'uan	1, 1.5
SE 101	Introduction to Therapy and Rehabilitation	3
SOC 2	Social Problems	3
or		
SOC 25	Social Stratification	3
SOC 10	Marriage and Family	3
SOC/HIST 20	Ethnic Cultures in the United States	3

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: HLTH 2; SE 102

Graphics

The Graphics program is designed to prepare students for certificates in the Computer Graphics, Graphic Communications, Graphic Design, and Illustration fields. Training is provided in both theory and practical skills. Directed skill development is stressed in the following areas of study: Computer Graphics (computer art and layout), Graphic Communications (printing), Graphic Design (design and art production), and Illustration/Animation (advertising and editorial art).

This program will provide students with the opportunity to acquire knowledge and skills that are required for employment, Associate degree, or transfer in the related areas of design, illustration, printing, and computer graphics.

Computer Graphics Certificate and Degree Program

This program is designed to prepare students for employment in the computer graphics fields. This program relies heavily on a basic understanding of graphic design and/or graphic communications principles as they relate to industry standards. Students are encouraged to adhere to electives noted for a rounded educational experience. Some of the careers that are found in the computer graphics field are: computer graphics artist, prepress technician, computer animator and multimedia producer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply fundamental graphic design and production skills
- Select and use appropriate graphic design and production software
- Demonstrate skills typically found in the graphic design and production field

Course ID	Title	Units
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 148*	Digital Graphic Design	3
GD 149*	Digital Illustration	3
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
Total Units for the Certificate		21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: GC 101, ART 140/GD 140, 141, 145.

Graphic Communications Certificate and Degree Program

Graphic Communications Certificate Program includes electronic and traditional printing, computer graphics, screen printing, letterpress and related areas. The discipline focuses on the creation, production, and reproduction in printed and digital form. Students are encouraged to adhere to electives noted for a rounded educational experience.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Use fundamental traditional and digital pre-press and reproduction skills for commercial print production
- Select and use appropriate pre-press and production software and hardware
- Demonstrate skills typically found in the commercial pre-press and print production field

Course ID	Title	Units
GC 63/ART 63	Introduction to Screen Printing	3
GC 101	Introduction to Graphic Communications	3
GC 106*	Advanced Screen Printing	3
GC 195*	Graphics Studio	3
GC 210	Letterpress	3
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
Total Units for the Certificate		27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: GD 140/ART 140, 141, 142.

Graphic Design Certificate and Degree Program

This program option prepares students for careers typically found in the graphic design field, such as art director, graphic designer, production artist, package designer, or product designer. The study encompasses all phases of the design processes from origination of the idea (design, layout, and typography) through reproduction, finishing and distribution. Students are encouraged to adhere to electives noted for a rounded educational experience.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Use fundamental design skills
- Select and use appropriate graphic design software
- Demonstrate skills typically found in the graphic design field

Course ID	Title	Units
GD 140/ART 140	Beginning Graphic Design	3
GD 142/ART 142	Package Design	3
GD 144	Typography	3
GD 145/ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
GD 154*	Digital Pre-Press	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240/ART 240*	Intermediate Graphic Design	3
CWE 180*	Cooperative Work Experience: Graphics	1
Total Units for the Certificate		28

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ART 40, 41, 80, 85; GC 101.

Illustration/Animation Certificate and Degree Program

The Illustration/Animation Certificate Program prepares students for careers in animation and in editorial illustration such as magazine, book illustration, medical illustration, and marine illustration or in advertising illustration such as product illustration, poster art, T-shirt and decal art. Students are encouraged to adhere to electives noted for a rounded educational experience.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Use fundamental illustration and animation skills
- Select and use appropriate illustration and animation software and hardware
- Demonstrate skills typically found in the illustration and animation field

Course ID	Title	Units
ART 80	Drawing I	3
GD 141/ART 141	Graphic Rendering Techniques	3
GD 144	Typography	3
GD 145/ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
GD 150*	Digital Animation	3
GD 155	History of Animation	3
GD 210	Motion Graphics	3
Total Units for the Certificate		27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ART 40, 85*.

Health Information Technology

Health Information Technology Certificate Program

The Health Information Technician (H.I.T.) program is a two-year certificate and associate degree program that prepares the student for employment as a health information professional with the knowledge and skills to accurately code diagnoses and procedures for healthcare services provided to patients, and to collect, maintain, and analyze clinical data in electronic health records that physicians, nurses, and other healthcare staff rely on to deliver quality healthcare. The curriculum is designed to facilitate articulation from the Medical Assistant program and provides training through didactic instruction and directed practice externships. Facilities employing health infor-

mation technology professionals include hospitals, ambulatory care centers, physician offices, long-term care facilities, dialysis centers, public health agencies, pharmaceutical companies, medical supply companies, rehabilitation centers, managed care organizations, behavioral and mental health facilities, law firms, and insurance firms.

Students are required to hold a valid basic life support CPR card for healthcare providers and carry professional liability insurance prior to commencing their directed practice.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Collect, use, analyze, validate, store, and retrieve health care data.
- Manage related data, personnel management, and release of information.
- Demonstrate skill in clinical coding – converting diagnoses and procedure's to numeric codes.
- Demonstrate skills in quality assessment, financial management, and computer science.
- Apply knowledge through clinical experiences in various professional practice health care facilities.
- Demonstrate the knowledge and skills needed to successfully pass entry level HIM certification examinations and the Registered Health Information Technician examination. (RHIT)

A minimum grade of "C" in all courses is required to receive the certificate.

Course ID	Title	Units
HSC 201	Medical Terminology	3
CIM 112	Microsoft Office	3
HIT 200	Health Information Science	3
BIO 113	Human Anatomy and Physiology	4
HSC 233	Legal and Ethical Aspects of Health Information	3
HIT 203	Alternative Healthcare Delivery Systems	2
HIT 207*	Information Technology/EHR in Healthcare	3
HIT 202	Reimbursement Methodologies	2
HSC 244*	Disease Processes for the Health Sciences	3
HIT 221*	ICD-10-CM	3
HIT 220*	ICD-10-PCS	3
HIT 212*	Reporting Healthcare Data	2
HIT 209*	Management of Resources in Healthcare	3
HIT 204	Performance Improvement in Healthcare	3
HIT 215*	CPT/Ambulatory Care Coding	3
HIT 219*	Directed Practice	3
Total Units for the Certificate		46

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Health Information Technology Associate in Science Degree Program

The Health Information Technician (H.I.T.) program grants a certificate upon the successful completion of the 4-semester or 2 year coursework. The HIT associate degree program comprises of the 4-semester coursework certificate plus the general education courses needed to get the associate's degree. Since the associate degree in HIT is a high unit degree (more than 60 units), it typically takes longer than 2 years to complete. The HIT certificate and degree prepare the student for employment as a health information professional with the knowledge and skills to accurately code diagnoses and procedures for healthcare services provided to patients, and to collect, maintain, and analyze clinical data in electronic health records that physicians, nurses, and other healthcare staff rely on to deliver quality healthcare. Provide training through didactic instruction and directed practice. Facilities employing health information technology professionals include hospitals, ambulatory care centers, physician offices, long-term care facilities, dialysis centers, public health agencies, pharmaceutical companies, medical supply companies, rehabilitation centers, managed care organizations, behavioral and mental health facilities, law firms, and insurance firms.

Students are required to hold a valid basic life support CPR card for healthcare providers and carry professional liability insurance prior to commencing their directed practice.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Collect, use, analyze, validate, store, and retrieve health care data.
- Manage related data, personnel management, and release of information.
- Demonstrate skill in clinical coding – converting diagnoses and procedure's to numeric codes.
- Demonstrate skills in quality assessment, financial management, and computer science.
- Apply knowledge through clinical experiences in various professional practice health care facilities.
- Demonstrate the knowledge and skills needed to successfully pass entry level HIM certification examinations and the Registered Health Information Technician examination. (RHIT)

A minimum grade of "C" in all courses is required to receive the certificate.

Course ID	Title	Units
HSC 201	Medical Terminology	3
CIM 112	Microsoft Office	3
HIT 200	Health Information Science	3
BIO 113	Human Anatomy and Physiology	4
HSC 233	Legal and Ethical Aspects of Health Information	3
HIT 203	Alternative Healthcare Delivery Systems	2
HIT 207*	Information Technology/EHR in Healthcare	3
HIT 202	Reimbursement Methodologies	2
HSC 244*	Disease Processes for the Health Sciences	3
HIT 221*	ICD-10-CM	3
HIT 220*	ICD-10-PCS	3
HIT 212*	Reporting Healthcare Data	2
HIT 209*	Management of Resources in Healthcare	3
HIT 204	Performance Improvement in Healthcare	3
HIT 215*	CPT/Ambulatory Care Coding	3
HIT 219*	Directed Practice	3
Total Units for the Major		46

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Health Sciences Associate Degree

The Health Sciences Associate Degree program is designed to provide students the opportunity to achieve an associate degree in health sciences which may include courses required for preparation for transfer to a CSU or for employment in areas such as emergency medical technician, medical assistant, medical insurance billing and coding, nursing assistant, paramedic or phlebotomist.

Transfer Health Sciences majors should complete the general education certificate to meet general education requirements (37-39 units), either the California State University General Education (CSU-GE) requirements or the Intersegmental General Education Curriculum (IGETC).

Refer to ASSIST.org or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for this area of emphasis should reflect requirements of the college or university to which the student plans to transfer. Consult with a counselor for assistance in planning a transfer program in Health Sciences.

This program is not the associate degree in nursing and does not meet the State Board of Registered Nursing requirements for licensure in the state of California. Students interested in achieving a degree in Nursing should see the Nursing Associate Degree.

Program Student Learning Outcomes

Students who complete this program will be able to:

Recognize and define the terminology of various health sciences.

Differentiate between various health science jobs and job

Demonstrate scientific and critical thinking skills related to

Select 18 units from the following related disciplines

BIO 11*, 12*, 15*, 112*, 113

CHEM 1A*, 108

EMT 207* & 207C*, 210*, 219*

HIT 200, 204*, 207*, 209*, 216*, 219*, 221*

HLTH 1, 2, 3

HSC 201, 217*, 222, 223*, 226*, 227*, 228, 291

MA 211A/B, 212A/B, 213A/B, 214B, 217A*/B*/C*, 218B

N 160*, 161, 162*, 165, 170*, 171*, 172*, 173*, 174*, 176*, 202*, 238*, 245*, 263, 264*, 265*

PHLB 240*

PM 220*, 230*, 240*

Total Units for the Major 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

History

Associate in Arts Degree in History for Transfer

The curriculum in the History program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in History for Transfer degree by providing the necessary breadth in the field and an introduction to the methods used. Students who complete the Associate in Arts Degree in History for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Discuss the diversity of the human experience as influenced by geographical location, race, ethnicity, cultural traditions, gender and class
- Analyze historical processes that shape individuals and communities, drawing on detailed knowledge about the history of the area under study
- Apply critical thinking skills to examine the varieties of experience found in the historical record of the United States, exploring diversity as a critical component of history

- Distinguish between primary and secondary sources, and understand how each are used to make historical arguments
- Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past
- Effectively conduct research and write a coherent historical essay or research paper that articulates a clear argument, effectively interprets multiple forms of evidence, identifies arguments in secondary historical texts, and uses appropriate citations

Course ID	Title	Units
Required Courses		
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States Since 1876	3
Group A: (6 units)		
HIST 4	World History to 1750	3
HIST 5	World History From 1750	3
Group B: Select one course from each area (6 units)		
Area 1:		
HIST 70	History of Asia to 1800	3
HIST 71	History of Asia Since 1800	3
HIST 72	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 80	Introduction to Contemporary Africa	3
HIST 21	Women in United States History: A Multicultural Perspective	3
HIST 33	The Political/Social History of the Chicanas/os	3
HIST 81	African American History	3
Area 2:		
HIST 62	European History to 1650	3
HIST 63	European History Since 1650	3
HIST 75	Introduction to the Contemporary Middle East	3
HIST 30	History of Mexico	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

History Associate Degree Program

The curriculum in the History Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Discuss the diversity of the human experience as influenced by geographical location, race, ethnicity, cultural traditions, gender and class
- Analyze historical processes that shape individuals and communities, drawing on detailed knowledge about the history of the area under study
- Apply critical thinking skills to examine the varieties of experience found in the historical record of the United States, exploring diversity as a critical component of history
- Distinguish between primary and secondary sources, and understand how each are used to make historical arguments
- Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past
- Effectively conduct research and write a coherent historical essay or research paper that articulates a clear argument, effectively interprets multiple forms of evidence, identifies arguments in secondary historical texts, and uses appropriate citations

Course ID	Title	Units
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States Since 1876	3
	Select from Restricted Electives	6
Total Units for the Major		18

Restricted Electives:

ECON 2*, 20; HIST 7, 8, 11, 12, 15, 19, 20/SOC 20, HIST 21, 30, 32, 33, 40, 41, 61, 62, 63, 70, 71, 72, 75, 80, 135; PS 4, 11, 12, 14, 80.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Horticulture**Horticulture Certificate and Degree Program**

The Horticulture program is soundly based on horticultural science and technology and prepares students for careers related to production and care of plants, trees, and shrubs commonly used in landscape design, retail and wholesale nurseries, and park departments. The certificate offered within the Horticulture program is outlined below.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Grow and maintain ornamental plant materials.
- Identify local plant materials, including herbaceous and trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

Course ID	Title	Units
HORT 10	Plant Materials — Herbaceous Plants	3
HORT 11	Plant Materials — Trees and Shrubs	3
HORT 20	Introduction to Horticulture Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
HORT 120	Integrated Pest Management	4
	Select one course from each Group	4-6
Total Units for the Certificate		24-26

Group I:

HORT 7	Introduction to Landscape Design	3
HORT 115	History of Landscape Design: Ancient through 19th Century	3
HORT 145	Planting Design with Native Plants	3

Group II:

CWE 180*†	Cooperative Work Experience: Horticulture and Landscape	1
HORT 116	Irrigation Design Fundamentals	3
HORT 166	Ornamental Native Plants Identification	3
HORT 216*	Irrigation Plans and Details with CAD	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Horticulture Certificate.

Suggested coursework not required for the major: BUS 1, 120, 137; CIM 1; HORT 208, 209*; SPAN 1*.

Associate in Science Degree**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Grow and maintain ornamental plant materials.
- Identify local plant materials, including herbaceous and trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

Course ID	Title	Units
HORT 10	Plant Materials – Herbaceous Plants	3
HORT 11	Plant Materials – Trees and Shrubs	3
HORT 20	Introduction to Horticulture Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
HORT 120	Integrated Pest Management	4
	Select one course from each Group	4-6
Total Units for the Major		24-26

Group I:

HORT 7	Introduction to Landscape Design	3
HORT 115	History of Landscape Design	3

Group II:

CWE 180*†	Cooperative Work Experience: Horticulture	1
HORT 116	Irrigation Systems	3
HORT 166	Ornamental Native Plants	1.5
HORT 216*	Advanced Irrigation Design	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Horticulture Certificate.

Completion of the courses above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 1, 120, 137; CIM 1; HORT 208, 209; SPAN 1.

General Horticulture Occupational Skills Award

The General Horticulture Occupational Skills Award encourages students to master skills required to propagate and maintain healthy plants, including the use of soils and fertilizers.

Course ID	Title	Units
HORT 20	Introduction to Horticultural Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
Total Units for the Award		10

Plant Identification Occupational Skills Award

The Plant Identification Occupational Skills Award encourages students to master skills required to identify all of the important annuals, groundcovers, vines, trees, shrubs, and native plants used in Southern California landscapes. Award holders will be able to make recommendations for the incorporation of these species into the landscape based on flower color, time of flowering, height, spread, fruit production, and known problems.

Course ID	Title	Units
HORT 10	Plant Materials — Herbaceous Plants	3
HORT 11	Plant Materials — Trees and Shrubs	3
HORT 166	Ornamental Native Plants Identification	3
Total Units for the Award		9

Human Development Associate Degree Program

The curriculum in the Human Development Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Discuss diverse human experiences
- Identify influences on human development
- Locate and analyze significant works focused on the study of human development

Course ID	Title	Units
ANTH 2	Cultural Anthropology	3
MATH 10*	Introduction to Statistics	3
PSYC 1	Introduction to Psychology	3
PSYC 7*	Developmental Psychology: Childhood through Adolescence	3
SOC 1	Introduction to Sociology	3
SOC 15*	Socialization of the Child	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 20; CD 120, 121*.

Human Services

The Human Services department offers the following programs of study for people who want to work with people. The curricula meet the needs of career-oriented students who wish career preparation at the Associate degree or vocational certificate levels. They will also serve as an introduction to social work, social welfare, criminal justice, counseling, mental health, and other helping professions for students planning advanced degrees in these fields. Coursework includes participation in internships and Cooperative Work Experiences at various facilities.

Saddleback College is an academic member of the International Association of Eating Disorders Professionals (IAEDP). Saddleback College does not offer a certificate for the Eating Disorders Program, however, the course is certified by IAEDP.

The Human Services department offers the four programs listed below.

Alcohol and Drug Studies Certificate and Degree Program

The Alcohol and Drug Studies program integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population, as well as with families and employers of chemically dependent persons. This program option combines the Human Services behavioral core, skills training, and experiential learning in the field work settings.

The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.

A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to

- Demonstrate multiple approaches in their work with the alcohol and drug abuse population.
- Apply various communication and collaborative techniques to use with families and employers of chemically dependent individuals.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

CORE COURSES

Course ID	Title	Units
HS 100*	Human Services in a Changing Society	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in Our Society	3
HS 285	Ethical Issues/Clients' Rights	3
Total Core Units for the Certificate		15
HS 110*	Field Instruction and Seminar I	3.5
HS 150*	Field Instruction and Seminar II	3.5
HS 171	Substance Abuse: Intervention, Treatment and Recovery	3
HS 172*	Physiological Effects and Pharmacology of Alcohol and Drugs	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-occurring Disorders	3
	Select from Restricted Electives	3
Total Units for the Certificate		37

Restricted Electives:

HS 128	Community-Based Corrections	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 175	Substance Abuse Education, Prevention and Intervention	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children and Adolescence	3
HS 220	Benefits and Entitlement	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Community-Based Corrections Certificate and Degree Program

The program in Community-Based Corrections provides the student with an introduction to the Human Services behavioral core and skills with a specialized area of study in areas of various community-based corrections. Students completing the program may find employment in probation, juvenile counseling settings, California Youth Authority, and half-way houses.

The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.

A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to

- Expound upon knowledge of multiple and diverse criminological theories.
- Exhibit an understanding of how the history of the criminal justice system relates to contemporary community-based corrections regulations and environments.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

CORE COURSES

Course ID	Title	Units
HS 100*	Human Services in a Changing Society	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in Our Society	3
HS 285	Ethical Issues/Clients' Rights	3

Total Core Units for the Certificate 15

HS 37	Introduction to Criminology	3
HS 110*	Field Instruction and Seminar I	3.5
HS 119	Introduction to the Criminal Justice System	3
HS 128	Community-Based Corrections	3
HS 150*	Field Instruction and Seminar II	3.5
HS 187	Juvenile Violence, Gangs, and Victimization Select from Restricted Electives	3

Total Units for the Certificate 37

Restricted Electives:

HS 131	Multicultural and Diverse Populations in the United States	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 175	Substance Abuse Education, Prevention and Intervention	3
HS 176*	Co-occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children and Adolescence	3
HS 220	Benefits and Entitlement	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Human Services Generalist Certificate and Degree Program

The Human Services Generalist program is designed to provide persons with both a historical and a current perspective of the basic issues within the human services field. It will introduce students to the growing career options within the field, provide an opportunity to explore several of the program options, and generally provide the kind of information that will enable students to make informed decisions in regard to career directions.

The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.

A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to

- Exemplify knowledge of the breadth of the Human Services profession.
- Engage human services intervention skills on a micro and macro level.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

CORE COURSES

Course ID	Title	Units
HS 100*	Human Services in a Changing Society	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in Our Society	3
HS 285	Ethical Issues/Clients' Rights	3

Total Core Units for the Certificate 15

HS 110*	Field Instruction and Seminar I	3.5
HS 131	Multicultural and Diverse Populations in the United States	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse Select from Restricted Electives	3

Total Units for the Certificate 37

Restricted Electives:

APSY 150	Helping Relationships	3
HS 171	Substance Abuse: Intervention, Treatment, and Recovery	3
HS 172	Physiological Effects and Pharmacology of Alcohol and Drugs	3
HS 175	Substance Abuse Education, Prevention and Intervention	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
PSYC 125	Psychology of Aging	3
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
SOC 10	Introduction to Marriage and the Family	3
SOC 20	Ethnic Cultures of the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Mental Health Worker Certificate and Degree Program

The Human Service department has designed the Mental Health Worker program to educate students to understand cultural competency skills needed for clients and family members to enter the public mental health labor force. It will introduce students to benefits acquisitions, the recovery model, co-occurring disorders and integrated services, early identification of mental illness and evidence-based practices.

A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes

Students who complete this program will be able to

- Demonstrate multiple approaches in their work with the mental health and co-occurring populations.
- Impart appropriate intervention practices to use with individuals and families impacted by mental health and/or co-occurring disorders.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience: Mental Health	2
HS 100*	Human Services in a Changing Society	3
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 220*	Benefits and Entitlement	3
HS 285	Ethical Issues/Clients' Rights	3
Total Units for the Certificate		29

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualify the student for an Associate in Science degree. A minimum of 12 units must be taken at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Humanities Associate Degree Program

The curriculum in the Humanities Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors in the humanities such as language, history, literature or philosophy, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and evaluate the origin, growth, varieties, and cultural manifestations of individuality in different cultural traditions.
- Identify and evaluate nature (e.g. our conceptions of nature, our relation to nature, etc.) in different cultural traditions.
- Identify and evaluate economic, social, religious and artistic conflict between different cultural traditions.

Course ID	Title	Units
A minimum of 18 units from the following:		
	International Language level 3 or 4	5
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HUM 1*	Introduction to Humanities	3
HUM 2*	Origins of Western Culture in Literature	3
HUM 3*	The Culture of Medieval and Renaissance Europe	3
HUM 10A*	Culture, Science, and Society I	3
HUM 10B*	Culture, Science, and Society II	3
HUM 21*	The Search for Meaning: Ideas of Self Across Cultures	3
HUM 22*	Gods, Clocks, and Visions	3
HUM 25*	Planet Earth: Contemporary Issues and Controversies	3
PHIL 1*	Introduction to Philosophy	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Interior Design

Saddleback College offers an interdisciplinary Interior Design curriculum providing multi-level, accredited courses that prepare students with the competencies required to enter the Interior Design profession. The Associate degree will be awarded after completion of Level III.

Level I — Interiors Merchandising Certificate Program

The Interiors Merchandising level provides the student with a short-term certificate program leading to employment in merchandising or sales.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental drafting skills, knowledge of color theory, career paths, and product knowledge related to merchandising.
- Use professional skills and effective communication techniques.
- Demonstrate beginning CAD skills required for merchandising and sales positions in the Interior Design field.

Course ID	Title	Units
BUS 137	Professional Selling Fundamentals	3
ID 110	Fundamentals of Interior Design	3
ID 111*	Interior Design Studio I	3
ID 112	Beginning Drafting for Interiors	3
ID 113	Interior Design Careers	2
ID 114	Applied Color and Design Theory for Interior Design	4
ID 115*	Computer-Aided Design/Drafting for Interior Design	3
ID 116	Interior Materials and Products	3
Total Units for the Certificate		24

Associate Degree will be awarded for Level III only.

Level II — Interior Design Assistant Certificate Program

The Interior Design Assistant level meets the standards that can lead to a minimum preparation for design certification and employment as a design assistant.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate advancing skills in fundamental drafting, color theory, and product knowledge.
- Use professional skills and effective communication techniques.
- Demonstrate space planning, historical, graphic, business, advancing computer technique, and work experience skills required for Interior Design Assistant positions in the Interior Design field.

Course ID	Title	Units
Level I Courses		24
ARCH 124A	Architectural Drawing I	4
ID 121*	Space Planning	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 123*	Interior Design Illustration	3
ID 125	History of Interior Architecture and Furnishings II	3
ID 126*	Interior Design Studio II	3
ID 127*	Fundamentals of Lighting	3
ID 128*	Business and Professional Practice for Interior Design	3
ID 129*	Interior Design Internship	1
<i>and</i>		
CWE 180*	Cooperative Work Experience: Interior Design	1
ID 216*	Digital Visualization for Interior Design	3
Total Units for the Certificate		54

Associate Degree will be awarded for Level III only.

Level III — Interior Design Professional Certificate and Degree Program

The Interior Design Professional level meets the educational standards leading to employment and certification as a professional interior designer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate advanced knowledge of drafting, color theory, and product knowledge.
- Use advanced professional skills and effective communication techniques.
- Demonstrate advanced graphic, specialized design, code and CAD skills required for certification, professional affiliation &/or employment as a Professional Interior Designer.

Course ID	Title	Units
Level I and II Courses		51
ID 133*	Rendering and Rapid Visualization for Interior Design	3
ID 211	Codes and Specifications for Interior Design	3
ID 212*	Advanced Computer-Aided Design/Drafting for Interior Design	3
Restricted Electives		6
Total Units for the Certificate		66
Restricted Electives:		
ID 210*	Hospitality Design	3
ID 214*	Bath Design	3
ID 215*	Kitchen Design	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

International Language Associate Degree Program (See Arabic, Chinese, French, German, Italian, Japanese, and Spanish)

Italian Associate Degree Program

The Italian Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Italian. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Italian vocabulary.
- Use proficient conversational skills in Italian.
- Read and write in Italian.
- Demonstrate introductory cultural and historic knowledge of Italian speaking people.

Course ID	Title	Units
ITA 1*	Elementary Italian	5
ITA 2*	Elementary Italian	5
ITA 3*	Intermediate Italian	5
ITA 4*	Intermediate Italian	5
ITA 999A*	Italian Language Lab	.25, .25
ITA 999B*	Italian Language Lab	.25, .25
Select one course from Restricted Electives:		3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Japanese Associate Degree Program

The Japanese Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Japanese. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a comprehensive knowledge of Japanese vocabulary.
- Use proficient conversational skills in Japanese.
- Read and write in Japanese.
- Demonstrate introductory cultural and historic knowledge of Japanese speaking people.

Course ID	Title	Units
JA 1*	Elementary Japanese	5
JA 2*	Elementary Japanese	5
JA 3*	Intermediate Japanese	5
JA 4*	Intermediate Japanese	5
JA 999A*	Japanese Language Lab	.25, .25
JA 999B*	Japanese Language Lab	.25, .25
Select one course from Restricted Electives:		3
Total Units for the Major		24

Restricted Electives

ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Journalism

Associate in Arts Degree in Journalism for Transfer

Upon completion of the Associate in Arts in Journalism for Transfer, students will have a strong foundation in reporting and producing news content, as well as an understanding of the media industry, First Amendment and professional standards. Students will also have the opportunity to gain practical experience producing multi-dimensional content for student news publications and emerging platforms.

Students who complete the Associate in Arts in Journalism for Transfer degree will receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a range of skills necessary for work as photographers, video journalists, designers, etc. in editorial departments of news organizations, magazines, industrial in-house publications, emerging businesses in media and related industries.
- Demonstrate an understanding of the First Amendment, media history and current trends in the industry.
- Demonstrate an understanding of professional standards, ethics and media law.
- Demonstrate practical skills and understanding of convergence, multimedia, emerging technology and innovation in journalism and the media industry.

Required Core (10 units)

JRN 1	Mass Media and Society	3
JRN 2*	News Writing	3
JRN 111*	News Media Production and Editing	4
or		
JRN 112*	News Media Production, Blogging and Social Media	4
or		
JRN 107*	News Media Production and Investigative Reporting	4

Group A: Select one of the following courses (3-4 units)

JRN 106*	Video Journalism	3
JRN 109*	News Media Production and Data Reporting	4

Group B: Select two of the following courses (6-10 units)

MATH 10*	Introduction to Statistics	3
ECON 4*	Principles (Micro)	3
or		
ECON 2*	Principles (Macro)	3
PS 1	American Government	3
PS 12	Comparative Politics and Government	3
ENG 1B*	Principles of Composition	3
SP 3*	Argumentation and Debate	3

Note: If selecting courses from the list below to fulfill Group B requirements the courses must come from two different CSU Breadth areas within A through D or IGETC areas 1A through 5C

SP 1	Communication Fundamentals	3
ENG 1A*	Principles of Composition I	4
MATH 2*	Pre-Calculus Mathematics	5
ENV 24	Natural History of California	4
CTVR 3	The History and Appreciation of American Cinema	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
PHOT 25	History of Photography	3
CHI 1*	Elementary Chinese	5
FR 1*	Elementary French	5
SL 1*	American Sign Language I	4
SPAN 1*	Elementary Spanish	5
ANTH 2	Cultural Anthropology	3
ES 1	Multicultural Experiences in the United States	3
ES 2	Multicultural Identities in the United States	3
ES 10	Margins and Border Crossings	3
WS 10	Introduction to Women's Studies	3

Total Units for the Major 19-24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Journalism Certificate and Degree Program

The curriculum in the Journalism program provides the range of skills necessary for work in editorial departments of news organizations, magazines, industrial in-house publications, public relations, and emerging businesses in media and related industries. This program provides background and experience needed by persons who may be employed as photographers, video journalists, designers, and others.

The journalism program at Saddleback College seeks to give students an understanding of the media industry and First Amendment. Students develop their writing and reporting skills for a variety of news platforms, public relations and new and emerging businesses in the media and related industries.

In production courses, students receive hands-on training producing multi-dimensional content for student news publications on a variety of platforms. In skills classes, students learn the fundamentals of producing news content, interviewing, reporting, writing stories, news judgment, visual journalism, social media and are introduced to media law, ethics and professional standards. An emphasis is placed on emerging technology and journalism.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a range of skills necessary for work in editorial departments of news organizations, magazines, and industrial in-house publications.
- Demonstrate a range of skills necessary for work in public relations, media and communications organizations, and startups.
- Successfully complete practical experiences needed by persons who may be employed as journalists, editors, photographers, video journalists, designers, and media professionals and related occupations.

Course ID	Title	Units
JRN 1/CTVR 1	Mass Media and Society	3
JRN 2*	News Writing	3
JRN 105	Feature Writing	3
JRN 125*	Magazine Journalism	3
and		
JRN 113*	Magazine Production for Digital Platforms	3
	Select two News Media Production courses	8
Total Units for the Certificate		23

News Media Production

JRN 107*	News Media Production and Investigative Reporting	4
JRN 109*	News Media Production and Data Reporting	4
JRN 111*	News Media Production and Editing	4
JRN 112*	News Media Production, Blogging and Social Media	4

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: PHOT 50, 55*.

Kinesiology**Associate in Arts Degree in Kinesiology for Transfer**

The Kinesiology major consists of courses appropriate for an Associate in Arts in Kinesiology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the AA-T. Students who complete the Associate in Arts in Kinesiology for Transfer degree receive priority admission with junior status to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a beginning level of knowledge, skill, theory and strategy in at least one sport or physical activity.
- Explain and apply basic physiological principles of human movement in exercise and sports settings.
- Demonstrate an understanding of the structure and function of the body in human performance.

- Recognize the principles of physical fitness development and maintenance as well as the body's responses to physical activity.
- Acquire an understanding of those factors instrumental in the development and performance of motor skills.
- Demonstrate an understanding of the value and significance of physical activity for human interactions, and quality of life.
- Analyze the history, research, and current information in Kinesiology and their current applications.
- Use campus and/or community resources to participate actively in their own education.
- Display leadership, cooperation, sportsmanship and integrity through active participation in fitness and sports.
- Encourage and promote the value of lifelong learning and quality of life through health, sport, fitness and physical activity.

Required Core

KNES 51	Introduction to Kinesiology	3
BIO 11*	Human Anatomy	4
BIO 12*	Human Physiology	4
<i>and</i>		

Select a maximum of one course each from any three of the following movement-based course areas (3 units):**Aquatics**

KNES 41	Swimming for Nonswimmers	1-1.5
KNES 42*	Intermediate Swimming	1-1.5
KNES 44*	Aquatic Conditioning	1-1.5

Combatives

KNES 90	Beginning Self Defense	1-1.5
KNES 93	Beginning Karate	1-1.5
KNES 94	Beginning Akido	1-1.5

Fitness

KNES 1	Cardiovascular Conditioning	1-1.5
KNES 50	Aerobic Dancing	1-1.5

Individual Sports

KNES 20	Beginning Golf I	1-1.5
KNES 24	Beginning Tennis I	1-1.5
KNES 25*	Beginning Tennis II	1-1.5
KNES 26*	Intermediate Tennis	1-1.5

Team Sports

KNES 70	Basketball	1-1.5
KNES 71*	Advanced Basketball	1-1.5
KNES 72	Beginning Soccer	1-1.5
KNES 76	Beginning Volleyball	1-1.5
KNES 77*	Intermediate Volleyball	1-1.5
KNES 81	Beginning Beach Volleyball	1

List A: Select two courses (7-9 units) from the following

MATH 10*	Introduction to Statistics	3
BIO 20	Introduction to Biology	4
CHEM 108	Introduction to General, Organic, and Biochemistry	4
<i>or</i>		
CHEM 1A*	General Chemistry	5
PHYS 2A*	Introduction to Physics	5
<i>or</i>		
PHYS 4A*	General Physics	5
Total Units for the Major		21-24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Kinesiology Associate Degree Program

The curriculum in the Kinesiology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate cognitive knowledge of fitness terminology and training in a specific subject area.
- Correctly perform the skills or strategy for a particular fitness activity or sport.
- Display effective gains through social interactions, teamwork, and sportsmanship in Kinesiology courses.
- Distinguish and articulate fundamental concepts or skills of a specific activity or sport.

Course ID	Title	Units
HLTH 1	Contemporary Health Issues	3
<i>or</i>		
HLTH 3	Women's Health Issues	1.5
HLTH 2	Responding to Emergencies/First Aid and CPR	3
KNES 51	Introduction to Kinesiology and Athletics	3
KNES 52	Fundamentals of Human Movement	3
<i>and</i>		
A minimum of 3 units in Training and Theory selected from the following: KNES 53, 54*, 105		
<i>and</i>		
A minimum of 6 units in Kinesiology activity skills courses from at least 4 of the following areas:		
(1) Fitness		
(2) Individual Sports		
(3) Aquatics		
(4) Dance		
(5) Team Sports		
(6) Combative Skills		
NOTE: Intercollegiate Athletics may be applied in appropriate areas.		
Total Units for the Major		19.5

Associate in Arts Degree

Complete units as described above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 11, 20; KNES 107; PSYC 1; SP 1 or 5.

Athletic Training Occupational Skills Award

The Athletic Training Occupational Skills Award prepares the student for careers in Athletic Training and Physical Therapy for skills necessary for entry level positions in Physical Therapy Clinic or acceptance to an Athletic Training program at a four-year college or university.

Course ID	Title	Units
BIO 11*	Human Anatomy	4
BIO 20	Introduction to Biology	4
HLTH 2	First Aid, CPR, & Automated External Defibrillator	1.5
KNES 52	Fundamentals of Human Movement	3
KNES 53	Introduction to Athletic Training	3
KNES 56	Practicum in Athletic Training – Fall Sports	2
<i>or</i>		
KNES 59	Practicum in Athletic Training – Spring Sports	2
Total Units for the Award		17.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Coaching Occupational Skills Award

This Occupational Skills Award is designed to prepare students for gaining employment in coaching in a scholastic setting or Sports management in youth sports at community centers, after school programs, and/or city and state sports activities. The students will gain a variety of experiences, skills and knowledge that will cover a multitude of sports.

Course ID	Title	Units
FN 164	Sports Nutrition	2
HLTH 2	First Aid, CPR, & Automated External Defibrillator	1.5
KNES 51	Introduction to Kinesiology	3
KNES 53	Introduction to Athletic Training	3
KNES 54	Principles and Fundamentals of Coaching	3
KNES 105	Mental Skills for Sports Performance	3
	Select from Restricted Electives	2
Total Units for the Award		17.5

Restricted Electives:

IA 1*	Men's Football	2
IA 2*	Men's Basketball	1 or 2
IA 3*	Men's Baseball	2
IA 4*	Men's Track and Field	2
IA 5*	Men's Cross Country	2
IA 6*	Men's Golf	2
IA 7*	Men's Water Polo	2
IA 8*	Men's Swimming and Diving	2
IA 9*	Men's Tennis	2
IA 10*	Women's Volleyball	2
IA 11*	Women's Softball	2
IA 12*	Women's Basketball	1 or 2
IA 13*	Women's Tennis	2
IA 14*	Women's Swimming and Diving	2
IA 16*	Women's Track and Field	2
IA 17*	Women's Cross Country	2
IA 18*	Women's Water Polo	2
IA 19*	Women's Golf	2
IA 20*	Women's Sports Off Season Training	1 or 2
IA 21*	Women's Soccer	2
IA 30*	Men's Sports Off Season Training	1 or 2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Yoga Teacher Training Occupational Skills Award

Yoga Teacher Training is designed to deepen students' understanding of yoga by investigating the biomechanics of yoga postures, learning to use anatomical cueing for proper alignment in poses, examining effective teaching techniques for a variety of settings, and exploring the history and philosophy of yoga. Upon successful completion of the Yoga Teacher Training Occupational Skills Award, students will be eligible to apply for their Yoga Alliance 200-hour instructor certification and will be prepared for employment as a trained yoga teacher in public and private settings. Yoga Alliance is the largest and most influential governing body in the yoga field, thus providing our Yoga Teacher Training students with a prestigious certification. A minimum grade of "C" in all courses is required to receive this award, and 10 additional hours of practice teaching hours and feedback forms are mandated for those students applying for the Yoga Alliance credential.

Course ID	Title	Units
KNES 160*	Anatomy and Fundamentals of Yoga	3
KNES 161*	Teaching of Yoga	3
KNES 162	Philosophy of Yoga	3
	Select 2 courses from Restricted Electives	2
Total Units for the Award		11-11.5

Restricted Electives:

KNES 28	Beginning Yoga	1
KNES 39*	Intermediate Yoga	1
KNES 40*	Advanced Yoga	1
DANC 128	Yoga for Dancers	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Landscape Design

Landscape Design Certificate and Degree Program

This program is designed to train students for careers in landscape design and maintenance with municipal and county parks departments, industrial and commercial firms, and residential construction companies.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental skills in landscape design elements, process and techniques.
- Apply their understanding of sustainable horticultural aspects to the development of landscape design to promote green living environments.
- Demonstrate basic landscape construction and maintenance skills.
- Use a variety of computer applications relevant to landscape design, construction, and ornamental horticulture.
- Demonstrate the skills necessary for employment as a landscape designer, landscape construction and maintenance professionals, or related field.

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials — Herbaceous Plants	3
HORT 11	Plant Materials — Trees and Shrubs	3
HORT 106	Landscape CAD: AutoCAD Fundamentals	3
HORT 109	Introduction to Planting Design	3
HORT 116	Irrigation Design Fundamentals	3
HORT 130	Hardscape and Construction Materials Fundamentals	1.5
	Select one course from each Group	2.5-7
Total Units for the Certificate		21.5-26.5

Group I:

HORT 20	Introduction to Horticultural Science	4
HORT 113	Soils and Fertilizers	3
HORT 138	The Sustainable Landscape	3
HORT 140	Landscape Management and Construction	3
HORT 141*	Hardscape and Construction Details with CAD	2
HORT 145	Planting Design with Native Plants	3
HORT 166	Ornamental Native Plants Identification	3
CWE 180*†	Cooperative Work Experience: Horticulture and Landscape	1

Group II:

HORT 115	History of Landscape Design: Ancient through 19 th Century	3
HORT 201*	Professional Practices in Design Professions	3
HORT 216*	Irrigation Plans and Details with CAD	3
HORT 139	Contemporary Landscape Design Trends	3
HORT 142	Introduction to Design Technology	1
HORT 143*	Landscape CAD Management with Design Projects	3
HORT 144	Licensure for the Landscape Contractor	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Landscape Design Certificate Program.

Suggested coursework not required for the major: BUS 1, 120, 137; HORT 113, 115; SPAN 1*.

Associate in Science Degree

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental skills in landscape design elements, process and techniques.
- Apply their understanding of sustainable horticultural aspects to the development of landscape design to promote green living environments.
- Demonstrate basic landscape construction and maintenance skills.
- Use a variety of computer applications relevant to landscape design, construction, and ornamental horticulture.
- Demonstrate the skills necessary for employment as a landscape designer, landscape construction and maintenance professionals, or related field.

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials – Herbaceous Plants	3
HORT 11	Plant Materials – Trees and Shrubs	3
HORT 106	Landscape CADD	3
HORT 109	Introduction to Planting Design	3
HORT 116	Irrigation Systems	3
HORT 130	Hardscape and Construction Materials	3
	Select one course from each Group	2.5-7
Total Units for the Major		23.5-28

Group I:

CWE 180*†	Cooperative Work Experience: Horticulture	1
HORT 20	Introduction to Horticulture	4
HORT 113	Soils and Fertilizers	3
HORT 166	Ornamental Native Plants	1.5

Group II:

HORT 115	History of Landscape Design	3
HORT 201*	Professional Practices of Residential Landscape Design	3
HORT 216*	Advanced Irrigation Design	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†CWE 180* should be taken after completing at least 9 units of the Landscape Design Certificate Program.

Completion of the above courses and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 1, 120, 137; HORT 113, 115; SPAN 1*.

General Landscape Design Occupational Skills Award

The General Landscape Design OSA encourages students to acquire a comprehensive overview of the drawing, design, and construction materials used by the landscape designer. The skills acquired will enhance the ability to provide landscaping assistance to customers of retail and wholesale nurseries as well as residential landscape design industries.

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 109	Introduction to Planting Design	3
HORT 130	Hardscape and Construction Materials Fundamentals	1.5
Total Units for the Award		7.5

Liberal Studies Associate Degree

The curriculum in the Liberal Studies Associate Degree program is designed for students transferring to a four-year college or university intending to pursue a Liberal Studies Major.

Students planning to transfer to California State University (CSU), the University of California (UC), or an institution which accepts certification should complete general education requirements for the associate degree by completing CSU General Education (CSU-GE) certification requirements or the Intersegmental General Education Transfer Curriculum (IGETC) (37-39 units).

Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the values of a culture as expressed through its art or language.
- Demonstrate effective expository and persuasive writing skills.
- Develop a reasoned solution to a problem.
- Evaluate new and accepted ideas about the natural universe using testable methodology.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.

Please consult with a counselor to ensure that the courses you select from the options listed below are appropriate for your particular school of transfer.

Complete 18 units as described below:

ENG 1A*	4
SP 1 or 5	3
PS 1	3

Select one of the following:

ENG 1B*, 170; PHIL 12*; SP 2*, 3*	3
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Select one of the following:

HIST 7, 8, 16, 17, 22	3
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Select one of the following:

MATH 2*, 3A*, 3B*, 3C* 7*, 8*, 10*, 11*, 24*, 26*, 124*	3-5
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*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Marine Science Technology

The Marine Science Technology program is designed to provide technician training for several ocean-related careers. Two program options are outlined below to orient students to the different emphases necessary for individual interest and career goals.

Marine Science Technician Certificate and Degree Program

Rapid growth of the field of marine environmental management in Southern California brings demand for marine science technicians having the practical seamanship skills of navigation, vessel operation, marine systems and equipment maintenance, as well as scientific expertise. Flexibility in study areas of concentration allows for tailoring coursework to specific employment opportunities.

Classroom work in oceanographic disciplines is combined with seagoing laboratory experience aboard marine research vessels, both sail and power. The program is designed to develop a solid educational foundation so that graduates will be prepared to work closely with scientists, researchers, engineers, and marine survey and operations personnel as they endeavor to manage this enormous resource for the good of mankind.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Develop piloting and navigational skills required to properly navigate vessels in harbors, near shore, and open waters.
- Perform advanced seamanship techniques using current technology and electronic navigational instruments.
- Demonstrate spatial analysis of data and identify problems with acquisition and accuracy of data in marine ecological surveys.

Course ID	Title	Units
ENV 18	Intro to Ecology	4
or BIO 19*	Marine Biology	
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	
	Select from Restricted Electives	
Total Units for the Certificate		23

Restricted Electives:

MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
MST 219*	Marine Ecological Survey/GIS	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: CHEM 1A, 106; CIM 1; DR 100; PHYS 2A.

Seamanship Certificate and Degree Program

This program is designed to prepare individuals as boat operators and to take Coast Guard licensing examinations, as well as train marine technicians in the seagoing disciplines. Fieldwork is conducted throughout Southern California and the Channel Islands from Dana Point and Newport harbors. Boats include 28 to 48-foot sailing and power vessels, as well as safety sail training and introductory boating experience on Saddleback's fleet of 14-foot Capri sailboats.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate intermediate sailing skills, including basic maneuvers, navigational strategies, marlinspike seamanship techniques, anchoring techniques, and line handling.
- Demonstrate understanding of nautical terms, marine weather, points of sail and maneuvers, and demonstrate proficiency in their practical use.
- Demonstrate understanding of basic emergency and proper boating safety techniques and procedures.

Course ID	Title	Units
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select from Restricted Electives	9
Total Units for the Certificate		23

Restricted Electives:

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
MST 219*	Marine Ecological Survey/GIS	3
MST 224	Channel Islands	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ET 101; DR 100, PHYS 2A.

Mathematics

Associate in Science Degree in Mathematics for Transfer

The curriculum in the Mathematics program is designed to provide the transfer student the opportunity to achieve an Associate in Science in Mathematics for Transfer degree by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework along with courses required for general education. Students who complete the Associate in Science Degree in Mathematics for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate computational skills at a variety of levels.
- Apply critical thinking skills.
- Demonstrate proficiency in graphing.

Course ID	Title	Units
Required Courses		
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
MATH 3C*	Analytic Geometry and Calculus	5
List A: Select one of the following courses (4 units)		
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
List B: Select one of the following courses (3-5 units)		
PHYS 4A*	General Physics	5
MATH 10*	Introduction to Statistics	3
Total Units for the Major		22-24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Mathematics Associate Degree Program

The curriculum in the Mathematics Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate computational skills at a variety of levels.
- Apply critical thinking skills.
- Demonstrate proficiency in graphing.

Course ID	Title	Units
First Year		
CS 1B*	Introduction to Programming	3
or		
CS 4A*	Introduction to Java for Computer Science	
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5

Second Year

MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
Total Units for the Major		26

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Medical Assistant

This program prepares students for employment as a medical assistant in a physician's office or clinic. The curriculum is designed to provide training in administrative (front office) and clinical (back office) medical assisting skills. Instruction is given in basic medical office procedures (including appointment scheduling, billing, and insurance), assisting with examinations, surgical and laboratory procedures (including venipuncture, pharmacology, and injections), electrocardiography, electronic health records, public relations, supervision, and practice-building techniques. An externship experience helps provide the student with the skills necessary to enter this field.

Successful completion of courses will require that a grade of "C" or better be achieved. When a student fails to achieve a "C" or better in any course, the student will be given the opportunity to repeat the failed course once on a space available basis. If a student receives a second grade of less than a "C" in any Medical Assistant course, that student will be dropped from the Medical Assistant Program and will not be eligible for re-entry into the Saddleback College Medical Assistant program. A student may not enter Clinical Experience (MA 217) until all courses are completed with a grade of "C" or better.

Administrative Medical Assistant Certificate Program

This program prepares the student for employment as an administrative (front office) medical assistant in a physician's office or clinic. The Administrative Medical Assistant program prepares the student to schedule appointments, perform medical reception duties, handle financial matters (including medical collection), manage electronic health records and other medical records, and do insurance billing. The externship in the front office of a physician's office will help provide the student with the administrative experience necessary to enter the workforce. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217*.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate administrative medical skills
- Describe legal and ethical practices related to medical care
- Demonstrate medical office employability skills

A minimum grade of "C" in all courses is required to receive the certificate.

Course ID	Title	Units
HSC 201	Medical Terminology	3
INSR 260	Computer Applications/EHR in Health Care	3
INSR 224A	Reimbursement Methodologies	3
INSR 226A	CPT/Ambulatory Care Coding	3
INSR 228A	Fundamentals of ICD Coding	3
MA 206	Introduction to Healthcare Systems and Delivery	3
MA 211A	Medical Reception Techniques	2.5
MA 212A	Medical Office Financial Procedures	2.5
MA 213A	Medical Records Management	2.5
MA 217A*	Medical Assisting Clinical Experience Administrative	3
MA 222	Legal and Ethical Aspects of Health Information	3
Total Units for the Certificate		31.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: EMT 207, 207C; PHLB 240; MA 211B, 212B, 213B, 214B, 218B.

Clinical Medical Assistant Certificate Program

This program prepares the student for employment as a clinical (back office) medical assistant in a physician's office or clinic. The program is designed to prepare the student to aid the physician by assisting with examinations and treatments, performing venipunctures and collecting other routine laboratory procedures, assisting with office surgery, giving medications including by injection, performing electrocardiograms, practicing medical and surgical asepsis, and working with electronic health records and other medical records. An externship in the back office of a physician's office will help provide the student with the clinical experience necessary to enter the workforce. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217B*.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate clinical patient skills
- Describe legal and ethical practices related to medical care
- Demonstrate medical office employability skills

A minimum grade of "C" in all courses is required to receive the certificate.

Course ID	Title	Units
HSC 201	Medical Terminology	3
MA 206	Introduction to Medical Assisting	3
MA 211B	Physical – Examination Procedures	3
MA 212B	Medical Office Laboratory Procedures	3
MA 213B	Medical Asepsis and Surgical Procedures	3
MA 214B	Medication Administration for Medical Assistants	3
MA 218B	Electrocardiography for the Medical Assistant	2
MA 260	Computer Applications/EHR in Health Care	3
HSC 233	Legal and Ethical Aspects of Health Information	3
MA 217B*	Medical Assisting Clinical Experience Clinical	3
Total Units for the Certificate		29

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: BIO 113; EMT 207*, 207C*; INSR 200; MA 211A, 212A, 213A, 224A, 226A*, 228A*

Comprehensive Medical Assistant Certificate Program

This program prepares the student for employment as a medical assistant in a physician's office or clinic. The curriculum is designed to provide training in both administrative and clinical procedures and practices. Instruction is given in basic medical office procedures, including appointment scheduling, billing, insurance, medical reception, medical records management, surgical and laboratory procedures, electronic health records and other medical records management, surgical and laboratory procedures, venipuncture, pharmacology, injections, electrocardiography, public relations, and practice-building techniques. An externship in a physician's office combining administrative and clinical experience helps provide the student with the clinical experience necessary to enter the workforce. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217C*.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe legal and ethical practices related to medical care
- Demonstrate clinical patient skills
- Demonstrate medical office employability skills
- Demonstrate administrative medical skills

A minimum grade of "C" in all courses is required to receive the certificate.

Course ID	Title	Units
HSC 201	Medical Terminology	3
MA 206	Introduction to Medical Assisting	3
MA 224A	Basic Medical Insurance	3
MA 211A	Medical Reception Techniques	2.5
MA 213A	Medical Records Management	2.5
MA 226A	Fundamentals of CPT/Ambulatory Care Coding for Medical Assistants	3
MA 212A	Medical Office Financial Procedures	2.5
MA 212B	Medical Office Laboratory Procedures	3
MA 214B	Medication Administration for Medical Assistants	3
MA 218B	Electrocardiography for the Medical Assistant	2
MA 260	Computer Applications/EHR in Health Care	3
HSC 233	Legal and Ethical Aspects of Health Information	3
MA 228A*	Fundamentals of ICD Coding	3
MA 211B	Physical – Examination Procedures	3
MA 213B	Medical Asepsis and Surgical Procedures	3
MA 217C*	Medical – Assisting Clinical Experience Comprehensive	3
Total Units for the Certificate		45.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: BIO 113; EMT 207*, 207C*; INSR 200.

Medical Insurance Billing Occupational Skills Award

Completion of the occupational skills award in Medical Insurance Billing provides entry level skills for employment in a medical office or as an independent consultant/contractor in medical insurance billing.

Course ID	Title	Units
HSC 201	Medical Terminology	3
MA 260	Computer Applications/EHR in Health Care	3
MA 224A	Basic Medical Insurance	3
MA 226A	Fundamentals of CPT/Ambulatory Coding for Medical Assistants	3
MA 228A*	Fundamentals of ICD Coding	3
Total Units for the Award		15

Medical Lab Technology Certificate and Degree Program

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

The MLT program is a two-year curriculum leading to the Associate in Science degree in Medical Laboratory Technology. Completion of prerequisite courses will be required prior to entering the program. The program course of study is a combination of instruction in principles of laboratory theory and techniques as well as clinical experience at affiliated medical laboratories. Students learn to perform routine laboratory procedures in phlebotomy, microbiology, clinical chemistry, hematology, coagulation, immunology, and urinalysis. They also will learn to operate and maintain clinical laboratory equipment.

Graduates of the program qualify for national certification examinations sponsored by the American Society of Clinical Pathologists (ASCP) Board of Registry or by the American Association of Bioanalysts (ABB) Board of Registry to become state licensed medical laboratory technicians.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Perform analytical testing in various areas of the clinical laboratory including clinical chemistry, microbiology, hematology, immunology, coagulation, and urinalysis, and related areas.
- Practice established safety procedures and communicate effectively and professionally with patients, laboratory personnel, and other members of the health care team.
- Participate in continuing education activities to maintain and improve professional competencies within the community as defined by the California Laboratory Field Services.
- Demonstrate preparation for applicable State of California approved certification exam.

Successful completion of courses will require that a grade of "C" or better be achieved. When a student fails to achieve a "C" or better in any course, the student will be given the opportunity to repeat the failed course once on a space available basis. If a student receives a second grade of less than a "C" in any Medical Laboratory Technology course, that student will be dropped from the Medical Laboratory Technology Program and will not be eligible for re-entry into the Saddleback College Medical Laboratory Technology program. A student may not enter Clinical Experience until all courses are completed with a grade of "C" or better.

Required pre-requisites prior to Medical Lab Technician Sequence:

Course ID	Title	Units
BIO 15*	General Microbiology	5
BIO 113	Human Anatomy and Physiology	4
CHEM 108	Introduction to General, Organic, and Biochemistry	4
MATH 253*	Intermediate Algebra	5
MLT 210	Introduction to the Clinical Lab Profession	1
MLT 211*	Basic Laboratory Procedures	1
PHLB 240*	Phlebotomy	4
and		
CWE 180*	Cooperative Work Experience: Phlebotomy	2

Required Courses:

MLT 230*	Clinical Chemistry	5
MLT 232*	Clinical Microbiology	3
MLT 235*	Clinical Urinalysis	1
MLT 236*	Clinical Hematology and Coagulation	3
MLT 242*	Clinical Chemistry Practicum	4
MLT 243*	Clinical Immunology/Immunohematology	3
MLT 244*	Clinical Hematology, Coagulation, Urinalysis Practicum	4

MLT 252*	Clinical Microbiology Practicum	4
MLT 253*	Clinical Immunology/Immunohematology Practicum	3
Total Units for the Certificate		56

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Music

Music Associate Degree Program

The curriculum in Music is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree will demonstrate commitment to the major, and attainment of a degree which can support attempts to gain entry-level employment.

Program Student Learning Outcomes

Students who complete this program will be able to:

- analyze musical scores and compositions
- critique personal music performances and those of other musicians
- analyze and perform the elements of music (rhythm, melody, harmony, and form)
- create derivative or original music at a level appropriate to the area of specialization
- compare and contrast the characteristics of various musical cultures and historical periods from the origin of music history to the present

The following course of study must be completed to fulfill major requirements for the Associate Degree in Music:

Course ID	Title	Units
MUS 10*	Harmony I	3
MUS 11*	Harmony II	3
MUS 50*	Applied Music: Instrumental	2.5, 2.5
or		
MUS 51*	Applied Music: Keyboard	2.5, 2.5
or		
MUS 52*	Applied Music: Voice	2.5, 2.5
	Select from: MUS 31*, 32*, 33*, 34*, 35*, 40*, 41*, 42*, 47*, 62*, 63, 64*, 66*, 75*, 148 or 297*	3-6
MUS 54A	Beginning Piano I (or proficiency exam)	(2)
MUS 54B*	Beginning Piano II (or proficiency exam)	(2)
MUS 55A*	Intermediate Piano I (or proficiency exam)	(2)
MUS 55B*	Intermediate Piano II (or proficiency exam)	(2)
MUS 92*	Musicianship I	2
MUS 93*	Musicianship II	2
	Select two courses from: MUS 20, 23, 24, 25, 26, 27, 28, 29	6
Total Units for the Major		24-27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Refer to Graduation Requirements for specific information regarding unit, scholarship, residence, and general education requirements.

Associate in Arts Degree

Completion of the required courses in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate in Arts Degree in Music for Transfer

The curriculum in the Music program is designed to provide the transfer student an opportunity to achieve the Associate in Arts in Music for Transfer. Students who complete the Associate in Arts in Music for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. The courses required in this program provide students with a minimum foundation of knowledge to pursue advanced study in vocal, instrumental or jazz music performance. Most transfer institutions require that applicants pass a competitive audition before being accepted into the program. Transfer students should consult their transfer institutions of choice for further information on specific lower-division music major requirements.

While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer. The following is a list of possible career paths for the music major, some requiring additional education and experience: performer, choral director, instrumental conductor, music teacher, music director, music therapist, music librarian, composer/arranger, copyist, music repair technician, music instrument sales representative, music critic, music editor, performing arts manager.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- analyze musical scores and compositions
- critique personal music performances and those of other musicians
- analyze and perform the elements of music (rhythm, melody, harmony, and form)
- create derivative or original music at a level appropriate to the area of specialization
- compare and contrast the characteristics of various musical cultures and historical periods from the origin of music history to the present

The following is required for all AA-T or AS-T degrees:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required in the major or area of emphasis.

Course ID	Title	Units
Required Core (15 units)		
MUS 1♦	The Basics of Music	3
MUS 10*	Harmony I	3
MUS 11*	Harmony II	3
MUS 12*	Harmony III	3
MUS 92*	Musicianship I	1
MUS 93*	Musicianship II	1
MUS 94*	Musicianship III	1

Applied Music: Four semesters required (4 units)

MUS 50*	Applied Music	1
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Large Ensemble: Four semesters required (8 units) Two semesters must be selected from either of the following courses (4 units):

MUS 35* ♦	Contemporary Choir	2
or		

MUS 47*♦	Saddleback College Big Band	2
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Two additional semesters may be selected from any of the following courses (4 units):

MUS 35*	Contemporary Choir	2
MUS 41*	Symphonic Wind Ensemble	2
MUS 42*	Symphonic Orchestra	2
MUS 47*	Saddleback College Big Band	2

Total Units for the Major **27**

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

♦ Students must complete the California State University General Education – Breadth Requirements for this degree. Six units from the following courses must be applied towards the student's general education requirements in order to complete this degree within the prescribed 60 unit requirement for Associate Degrees for Transfer: MUS 1, MUS 35 and/or MUS 47.

Music Production Occupational Skills Award

Provides students with entry-level skills for employment in the fields of music production, film/tv/game composition, live performance, sound design, music editing, and music recording. Students will use industry-recognized software to create, edit and perform music. The OSA also provides students with the music business knowledge necessary to promote their work.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Operate a digital audio workstation and setup software and hardware.
- Use midi and virtual instruments.
- Create music using Ableton Live.
- Edit music using Ableton Live.
- Perform music using Ableton Live and a midi controller.
- Describe various roles in the music industry.
- Explain how to publish, market and promote musical compositions.

Course ID	Title	Units
MUS 130	Music Production I	2.5
MUS 132	Introduction to Music Technology	2
MUS 120	Introduction to the Music Industry	3
Total Units for the Award		7.5

Natural Sciences Associate Degree Programs

(SEE ASTRONOMY, BIOLOGY, CHEMISTRY, GEOLOGY, OCEANOGRAPHY, PHYSICAL SCIENCE, and PHYSICS)

Nursing

The purposes of this program in Nursing are to provide the education necessary to develop competent practitioners in nursing and to provide a base for the continuing development of the student as an individual.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate sufficient preparation to pass the NCLEX upon first attempt.

- Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
- Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Registered Nurse Certificate and Associate Degree Program

Every required prerequisite and core class must be completed with a "C" or better.

Course ID	Title	Units
Required prerequisites prior to Nursing Clinical Sequence:		
BIO 11*	Human Anatomy	4
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
ENG 1A*	Principles of Composition I	4
Total Prerequisite Units		17

Eligible for Entry into Nursing Clinical Sequence

Semester I

N 165	Lifecycle I: Fundamentals of Aging	1.5
N 160*	Pharmacology for Nursing	2.5
N 170*#	Nursing Process	3.25
N 170*#	Nursing Process Lab	4.50
N 171*#	Mental Health Nursing	2
N 171*#	Mental Health Nursing Lab	1
Total Units for the Semester		14.75

Semester II:

N 161	Lifecycle 2: Growth and Development	1.5
N 172*#	Medical-Surgical Nursing	3.5
N 172*#	Medical-Surgical Nursing Lab	5.25
PSYC 1	Introduction to Psychology	3
Total Units for the Semester		13.25

Semester III:

N 173*#	Nursing Care of Children and Families	1.5
N 173*#	Nursing Care of Children and Families Lab	2
N 174*#	Women's Health Nursing	1.5
N 174*#	Women's Health Nursing Lab	2
Total Units for the Semester		7

Semester IV:

N 176*#	Advanced Nursing	3
N 176*#	Advanced Nursing Lab	5
SP 1	Communication Fundamentals	3
or		
SP 5	Interpersonal Communication	3
Total Units for the Semester		11
Total Units for the Certificate		63

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#Clinical course.

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing Program.

Upon completion of the Registered Nurse Certificate Students are eligible for RN Licensure Exam

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

ENROLLMENT PROCEDURES

Procedures for applying to the Nursing program and application packets are available in the Health Sciences and Human Services division office and on the division website. Prospective nursing students are encouraged to attend an RN Information Session. (See the Nursing website).

In order to apply, a student must complete BIO 11* (Anatomy), BIO 12* (Physiology), BIO 15* (Microbiology), and ENG 1A* (Principles of Composition 1) or their equivalents with a grade of "C" or better. BIO 12* (Physiology) must have been completed within the past seven years.

Note: Students will be admitted based on the total number of points they receive on the admission criteria. See the Nursing website for details about the point distribution. The admission criteria includes: previous academic degrees, work experience/certificates, GPA in the science prerequisites, completion of relevant course work towards the ADN degree, life experience, proficiency/course work in a second language, ATI-TEAS testing scores.

Applications will be taken each semester for approximately a two week period at the end of June (for Spring admission) and a two week period at the end of February (for Fall admission).

Students qualified for application will be ranked according to their total points achieved on all of the admission criteria. Those with the highest scores will be admitted.

The Nursing Program at Saddleback College is an impacted program, therefore students who hold F-1 (student visas) will not be considered for admission to the Nursing Program.

Students may use the following resources to obtain information or to seek clarification regarding nursing issues:

California Board of Registered Nursing
P. O. Box 944210
Sacramento, CA 94244
916-322-3350

Accrediting Commission for Education in Nursing, Inc.
3343 Peachtree Road, NE, Suite 850
Atlanta, Georgia 30326
404-975-5000

Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option

The Nursing program is designed to provide a system by which vocational nurses can continue their education and become eligible to write the State Board Exam. Procedures for application and admission packets are available in the offices of the Division of Health Sciences and Human Services. Students are admitted from a wait list.

Admission of LVNs to the Nursing program is on a space-available basis. To be placed on the wait list requires:

1. Proof of satisfactory completion of an accredited VN program or a current California VN license.
2. Completion of all the core science courses: BIO 11*, 12*, 15*, and ENG 1A* or equivalent, with a grade of "C" or better.
3. Completion of N 162* (lecture), N 162* (lab), and N 164* with a grade of "C" or better within a maximum of two years of program entry.

4. Completion of matriculation testing.
5. Attendance at "LVN to RN" guidance session.
6. Overall GPA of 2.5 in prerequisite courses.
7. Application submitted with Director/Assistant Director of Nursing.
8. Completion of standardized Pre Admission test validates by CCCC at or above designated cut scores.
9. Proof of completion of a minimum of one (1) year of direct patient care.

Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challengeable. Every required prerequisite and core class must be completed with a "C" or better.

Students admitted under the Advanced Placement Option are eligible for either the Registered Nurse Certificate or Associate in Science Degree upon completion of program requirements.

Licensed Vocational Nurse (LVN) to Registered Nurse (RN) 30-Unit Option Certificate

BRN Rules and Regulations

Section 1429 — Preparation Required for Licensed Vocational Nurses

- (a) An applicant who is licensed in California as a vocational nurse is eligible to apply for licensure as a registered nurse if such applicant has successfully completed the courses prescribed below and meets all the other requirements set forth in Section 2736 of the code. Such applicant shall submit evidence to the board, including a transcript, of successful completion of the requirements set forth in subsection (c) and of successful completion or challenge of courses in physiology and microbiology comparable to such courses required for licensure as a registered nurse.
- (b) The school shall offer objective counseling of this option and evaluate each licensed vocational nurse applicant for admission to its registered nursing program on an individual basis. A school's determination of the prerequisite courses required of a licensed vocational nurse applicant shall be based on an analysis of each applicant's academic deficiencies, irrespective of the time such courses were taken.
- (c) The additional education required of licensed vocational nurse applicants shall not exceed a maximum of thirty (30) semester or forty-five (45) quarter units. Courses required for vocational nurse licensure do not count toward fulfillment of the additional education requirement. However, other courses comparable to those required for licensure as a registered nurse, as specified in Section 1426, may be counted toward fulfillment of the additional education requirement.

Nursing courses shall be taken in an accredited school and shall be beyond courses equivalent to the first year of professional nursing courses. The nursing content shall include nursing intervention in acute, preventive, remedial, supportive, rehabilitative, and teaching aspects of nursing. Theory and courses with concurrent clinical practice shall include advanced medical-surgical, mental health, psychiatric nursing, and geriatric nursing. The nursing content shall include the basic standards for competent performance prescribed in Section 1443.5 of these regulations.

Admission of LVNs to the Nursing program is on a space-available basis. To be placed on the wait list requires:

1. Proof of satisfactory completion of an accredited VN program or a current California VN license.
2. Completion of BIO 12*, BIO 15*, and N 162* with grades of "C" or better and with a GPA of 2.5 or greater.

3. Attendance at "LVN to RN" guidance session.
4. Completion of N 162*(lecture) and N162* (lab) with a grade of "C" or better within a maximum of 3 semesters of program entry.
5. Applicant must commit, in writing, to the 30-unit status prior to or during application.
6. Application submitted with the Director/Assistant Director of Nursing.
7. Completion of standardized Assessment Technology Institute (ATI) tests at or above designated cut scores.
8. Proof of completion of a minimum of one (1) year of direct patient care as an LVN.

Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challengeable. Every required prerequisite and core class must be completed with a "C" or better.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
- Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
- Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Courses Required for the 30-Unit Option:

Required Prerequisites:

Course ID	Title	Units
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
N 162*	Successful Transition to Professional Nursing	1.5
N 162*	Successful Transition to Professional Nursing Lab	.5

Required Core Classes:

N 165	Lifecycle I: Fundamentals of Aging	1.5
N 171*	Mental Health Nursing	2
N 171*	Mental Health Nursing Lab	1
N 173*#	Nursing Care of Children and Families	1.5
N 173*#	Nursing Care of Children and Families Lab	2
N 174*#	Women's Health Nursing	1.5
N 174*#	Women's Health Nursing Lab	2
N 176*#¥	Advanced Nursing	3
N 176*#¥	Advanced Nursing Lab	5
Total Units for the Certificate		30

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#Clinical course.

¥Fulfills the Management & Leadership and Advanced Medical-Surgical requirement.

Nutrition Certificate and Degree Program

The Nutrition program prepares students for a wide variety of employment opportunities involving the applications of fundamentals of normal nutrition. Employment possibilities include public agencies, day-care centers for the young and the elderly, food co-ops, recreation work, pregnancy clinics, education (such as preschool and elementary school), health clubs, gym and figure salons, health food stores and nutritional supplement sales, and drug abuse clinics. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a Bachelor's degree. Refer to the Family and Consumer Sciences/Home Economics transfer section of the Saddleback College Catalog, as well as the catalog of the intended college of transfer.

Program Student Learning Outcomes

Students who complete this program will be able to

- Determine and translate nutrient needs into menus for individuals and groups across the lifespan, in diverse cultures and religions, and for different income levels.
- Demonstrate skills in basic food safety and preparation.
- Differentiate between various requirements for careers in nutrition.

Please see a counselor for assistance in planning a transfer program.

Course ID	Title	Units
FCS 115	Consumer Issues	3
or		
FCS 142	Life Management	
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
FN 50†	Fundamentals of Nutrition	3
FN 64	Nutrition Issues and Controversies	3
FN 110*	Food Preparation Essentials Contemporary	3
FN 120*	Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 164	Sports Nutrition	2
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 230*	Vegetarian Cuisine	2
or		
FN 232*	Techniques of Healthy Cooking	
Total Units for the Certificate		25-26

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

† FN 50 recommended prior to CWE 180*.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 125, 137; FN 140, 171; HLTH 1; KNES 107; PSYC 33; SP 1.

Oceanography Associate Degree Program

The curriculum in the Oceanography Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors such as marine biology, environmental science or geological sciences, the Associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to

- Explain the origins and history of oceanography and current developments and trends in the discipline
- Discuss how plate tectonics shapes the continental margin, the oceanic basin and its sediments; explain the distribution of pelagic and benthic communities in the oceanic environment
- Explain the directions and causes of atmospheric and oceanic

circulation patterns and assess their impact on marine life and productivity; relate these to waves, tides and coastal characteristics

- Discuss various types of marine resources and assess the various environmental concerns related to the use and abuse of marine resources

Course ID	Title	Units
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
GEOL 1	Introduction to Physical Geology	4
MATH 3A*	Analytic Geometry and Calculus	5
MS 20	Introduction to Oceanography	4
Second Year		
MATH 3B*	Analytic Geometry and Calculus	5
MATH 3C*	Analytic Geometry and Calculus	5
MATH 10*	Introduction to Statistics	3
PHYS 4A*	General Physics	5
PHYS 4B*	General Physics	5
Total Units for the Major		46

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BIO 3A or 20, 19; GEOL 2, 7, 20; PHYS 4C.

Paramedic Certificate and Degree Program

The Paramedic program is designed to prepare the student for licensure as a Paramedic. It is an intense, full-time program consisting of lecture, skills lab, clinical practice, and field internship. Students must possess a current CPR-Health Care Provider Card and are also required to have a current EMT license and one-year recent work experience. Students must have or purchase malpractice insurance prior to taking PM 230*.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate entry level skills for a variety of roles at the entry-level as a Paramedic.
- Demonstrate sufficient preparation to pass the NREMT-P.
- Apply skills in didactic, psycho-motor, and affective domains needed to perform the duties as a Paramedic in the community.
- Complete the FSDAP Paramedic National Registry of Emergency Medical Technicians Advanced Level Paramedic Exam preparation.

Course ID	Title	Units
PM 220*†	Paramedicine Theory	14
PM 230*†	Paramedic Clinical Experience	7.5
PM 240*†	Paramedic Field Internship	12
Total Units for the Certificate		33.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†A minimum grade of "B" is required.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: EMT 219*; HSC 217*, 226*.

Philosophy

Philosophy Associate Degree Program

The curriculum in the Philosophy Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree would support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and evaluate the main philosophical theories in metaphysics, epistemology, and ethics in the Western tradition.
- Use logical principles (i.e. formal and/or informal logic) and apply them to everyday examples.
- Recognize and understand the universalizing, structuring, and metaphorical power of language as it affects thinking and theorizing.

Course ID	Title	Units
Required courses:		
PHIL 1*	Introduction to Philosophy	3
PHIL 10*	World Religions	3
PHIL 12*	Introduction to Logic	3
Select a minimum of 9 units from the following:		
ENG 15A*	Survey of American Literature: 1620-1860	3
ENG 15B*	Survey of American Literature: 1860-Contemporary	3
<i>or</i>		
ENG 17A*	Survey of English Literature: Beowulf to Romantic Movement	3
ENG 17B*	Survey of English Literature: Romantic Movement to the Present	3
<i>or</i>		
ENG 21A*	World Literature: Ancient to the 17th Century	3
ENG 21B*	World Literature: 17th Century to Modern	3
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HUM 1*	Introduction to Humanities	3
PHIL 15*	Introduction to Ethics	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: Four college semesters, or the equivalent, of a foreign language are strongly recommended. Art history, English literature, history, interdisciplinary studies courses, and psychology or other social sciences are also recommended.

Associate in Arts Degree in Philosophy for Transfer

The curriculum in the Philosophy program is designed to provide the transfer student an Associate in Arts in Philosophy for Transfer degree by providing the necessary breadth in the field and the ability to complete both preparatory coursework for philosophy along with courses required for general education. Students who complete the Associate in Arts in Philosophy for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer. Majoring in Philosophy is an excellent way of preparing for law school or preparing careers that involve facility in writing skills, reasoning, analysis, and information processing.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and evaluate the main philosophical theories in metaphysics, epistemology, and ethics in the Western tradition.
- Use logical principles (i.e. formal and/or informal logic) and apply them to everyday examples.
- Recognize and understand the universalizing, structuring, and metaphorical power of language as it affects thinking and theorizing.

Course ID	Title	Units
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REQUIRED CORE: Select two (6 units)

PHIL 12*	Introduction to Logic AND	3
PHIL 1*	Introduction to Philosophy	3
OR		
PHIL 15*	Introduction to Ethics	3

GROUP A: Select one of the following courses or any course from the REQUIRED CORE not already used (3 units)

PHIL 103*	History of Ancient Philosophy	3
PHIL 104*	History of Modern Philosophy	3

GROUP B: Select two of the following courses or any course from GROUP A not already used (6 units)

HIST 62	European History to 1650	3
HIST 63	European History since 1650	3
PHIL 14*	Philosophy of Religion	3
PHIL 10*	World Religions	3

GROUP C: Select the following course or any one course from GROUP A or B not already used (3 units)

HUM 1*	Introduction to Humanities	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

Phlebotomist/Laboratory Assistant Occupational Skills Award

This curriculum prepares the student for employment as a Phlebotomist/Laboratory Assistant in a hospital, laboratory, or clinic. The training is designed to prepare students to collect specimens, do venipunctures, and clean and maintain medical laboratory equipment. Enrollment in CWE 180* (two units) will provide the necessary 120 hours of clinical experience required to complete this program. Successful completion of PHLB 240* and CWE 180* will lead to certification as a Phlebotomist/Laboratory Assistant.

Course ID	Title	Units
PHLB 240*	Phlebotomist/Laboratory Assistant Procedures	4
CWE 180*	Cooperative Work Experience: Phlebotomist	2
Total Units for the Award		6

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Photography Associate Degree Program

The curriculum in the Photography Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills in using camera controls to create an intended image.
- Produce imagery that exhibits an understanding of the principles of design and composition.
- Demonstrate an understanding of new photographic techniques and processes.

Course ID	Title	Units
Required Courses		
PHOT 25	History of Photography	3
PHOT 50	Digital Photography I	3
PHOT 51*	Introduction to Photoshop and Digital Imaging	3
PHOT 55*	Digital Photography II	3
PHOT 156*	Digital Photography III	3
PHOT 152*	Intermediate Photoshop and Digital Imaging	3
or		3
PHOT 190*	Special Problems in Photography	3
	Select one course from Restricted Electives	3
Total Units for the Major		21

Restricted Electives

PHOT 154*	Alternative Digital Processes	3
PHOT 157*	Studio Lighting	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ART 80; JRN 1/CTVR 1.

Physical Education Associate Degree Program

SEE KINESIOLOGY

Physical Science Associate Degree

The associate degree in Physical Science may be appropriate for transfer students who are planning to major in one of the physical sciences such as astronomy, biochemistry, chemistry, environmental sciences, geological sciences, or physics or a pre-professional program requiring completion of physical science courses such as prechiropractic, pre dental, premedicine, preoptometry, and prepharmacy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Analyze and interpret data, charts and graphs using quantitative and qualitative methods.
- Recognize and construct valid arguments using deductive and inductive reasoning.
- Evaluate new and accepted ideas about the natural universe using testable methodology.

Students planning to transfer to California State University (CSU), the University of California (UC), or an institution which accepts certification should complete general education requirements for the associate degree by completing CSU General Education (CSU-GE) certification requirements or the Intersegmental General Education Transfer Curriculum (IGETC) (37-39 units).

Please consult with a counselor for assistance in selecting courses appropriate for transfer majors and/or preprofessional programs.

Select 18 units from the following courses:

ASTR 20, 21, 25*
 CHEM 1A*, 1B*, 3*, 12A*, 12B*, 108
 ENV 23, 25, 30, 105*, 106
 GEOG 1, 1L*, 2, 3, 38, 102, 110*
 GEOL 1, 2*, 3, 4, 7, 20, 21, 23
 MATH 3A*, 3B*
 MS 4, 20
 PHYS 2A*, 2B*, 4A*, 4B*, 4C*, 20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Physics

Associate in Science Degree in Physics for Transfer

The Associate in Science in Physics for Transfer degree provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. This background should provide students with the tools to successfully complete a bachelor's degree.

Students who complete the Associate in Science in Physics for Transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate understanding of classical (or Newtonian) and fluid dynamics.
- Demonstrate understanding of classical electricity and magnetism.
- Demonstrate understanding of quantum mechanics, nuclear physics, optics and the special theory of relativity.

Course ID	Title	Units
Required Courses		
PHYS 4A*	General Physics	5
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
MATH 3C*	Analytic Geometry and Calculus	5
Total Units for the Major		30

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Physics Associate Degree Program

The curriculum in the Physics Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors in engineering, biological sciences, or physics, earning the associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate understanding of classical (or Newtonian) and fluid dynamics.
- Demonstrate understanding of classical electricity and magnetism.
- Demonstrate understanding of quantum mechanics, nuclear physics, optics and the special theory of relativity.

Course ID	Title	Units
First Year		
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
Total Units for the Major		41

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of all the courses listed and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: CHEM 1A, 1B.

Political Science

Associate in Arts Degree in Political Science for Transfer

The curriculum in the Political Science program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Political Science for Transfer degree by providing the necessary breadth in the field and, an introduction to the methods used. Students who complete the Associate in Arts in Political Science for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate an understanding of the principles and problems of politics in the United States and globally.
- Demonstrate an understanding of the basic systems, theories, ideologies, and models of political analysis.
- Explore specialized fields of study, including international relations, comparative politics, and political philosophy and theory.

Required Core

PS 1	American Government	3
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Group A: Select three of the following courses (9 units)

PS 10	Introduction to Political Theory	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
MATH 10*	Introduction to Statistics	3

Group B: Select two of the following courses or any course from Group A not already used (6 units)

ECON 2*	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
ES 1	Multicultural Experiences in the United States	3
ES 2	Multicultural Identities in the United States	3
ES 3	Introduction to Chicana/o and Latina/o Cultures	3
HIST 75	Introduction to the Contemporary Middle East	3
HIST 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
SOC 1	Introduction to Sociology	3
WS 10	Introduction to Women's Studies	3
ANTH 2	Cultural Anthropology	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Political Science Associate Degree Program

The curriculum in the Political Science Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recom-

mended for those considering majors related to this field, earning the associate degree may support attempts to gain entry-level employment in public administration or social services.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate an understanding of the principles and problems of politics in the United States and globally.
- Demonstrate an understanding of the basic systems, theories, ideologies, and models of political analysis.
- Explore specialized fields of study, including international relations, comparative politics, and political philosophy and theory.

It is recommended that PS 1 be taken prior to or concurrently with a combination of courses to be selected from those listed below.

Course ID	Title	Units
PS 1	American Government	3
PS 4	Introduction to Political Science	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
	Select from Restricted Electives	6
Total Units for the Major		18

Restricted Electives:

ECON 2*, 4*, 11; HIST 16, 17; MATH 10*, PS 10, 11, 80, SOC 1.

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate of Arts Degree in Psychology for Transfer

The curriculum in the Psychology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Psychology for Transfer by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework for psychology along with courses required for general education. Students who complete the Associate in Arts in Psychology for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Compare and contrast the major theoretical perspectives in psychology.
- Differentiate psychology from pseudoscience.
- Demonstrate knowledge of basic research methods for gathering and evaluating data.
- Apply the principles of psychology to the diverse world in which they live.

Course ID	Title	Units
Required Courses:		
PSYC 44*	Statistics for the Behavioral Sciences	3
<i>or</i>		
MATH 10*	Introduction to Statistics	3
PSYC 1	Introduction to Psychology	3
PSYC 2*	Research Methods in Psychology	3
Group A: Select one of the following courses (4 Units)		
BIO 20	Introduction to Biology	4
PSYC 3*	Biological Psychology	4
Group B: Select one of the following courses or any course from Group A not already used (3-4 Units)		
PSYC 7*	Developmental Psychology: Childhood through Adolescence	3
PSYC 30*	Social Psychology	3
SOC 1	Introduction to Sociology	3
ENG 1A*	Principles of Composition I	4
ENG 1B*	Principles of Composition II	3
PHIL 12	Introduction to Logic	3
Group C: Select one of the following courses or any course from Group A or B not already used (3-4 Units)		
PSYC 5*	Psychological Aspects of Human Sexuality	3
PSYC 16*	Introduction to Cross-Cultural Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 33	Psychology of Adjustment	3
PSYC 37*	Abnormal Behavior	3
PSYC 125*	Psychology of Aging	3
ANTH 1	Biological Anthropology	3
ANTH 2	Cultural Anthropology	3
ANTH 3*	Culture and Language	3
ECON 2*	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
GEOG 1	Physical Geography	3
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
PHIL 1*	Introduction to Philosophy	3
PHIL 15*	Introduction to Ethics	3
Total Units for the Major		19-21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Radio/Television/Film

See Cinema/Television/Radio

Rapid Digital Manufacturing Certificate and Degree Program

Rapid Digital Manufacturing addresses the competencies required by technical, engineering, and management professionals working in industry where products are designed and developed, with specific emphasis on mechanical/manufacturing, art/animation, medical imagery, geographic information systems, and architecture.

The program is designed to develop a solid educational foundation for graduates to work closely with engineers, designers, and professionals in multiple industries, using additive processes for product development, 3D visualization, art, entertainment, architecture, medical modeling, and geographic information systems.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in at least one of the languages of mechanical drafting used in manufacturing design: AutoCAD and/or Solidworks.
- Use machines commonly found in manufacturing and in rapid prototyping.
- Demonstrate a working knowledge of model making, mold making, and casting processes used in manufacturing.

Course ID	Title	Units
CIM 221	Managing Projects with Microsoft Project	3
DR 51*/ARCH 51*	Computer-Aided Drafting	3
DR 152*/ARCH 152*	Advanced Computer-Aided Design	3
MFG 200*	Introduction to Rapid Prototyping Technology	3
MFG 201*	Advanced CAD Model Making and Tooling	2
MFG 202*	Industrial Materials	2
MFG 203	Introduction to Manufacturing Processes	2
MFG 204*	3D Computer-aided Design - Solidworks	3
MFG 205	Silicone and Urethane Mold Making	3
MFG 206*	Resin and Foam Casting	3
Total Units for the Certificate		27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Real Estate

The Real Estate programs are designed to educate the student to become an effective real estate professional. The three programs are: Real Estate Appraisal, Real Estate Escrow, and Real Estate Sales/Broker.

Real Estate Appraisal Certificate and Degree Program

The Real Estate Appraisal program is designed to prepare students with educational courses needed for positions within the real estate appraisal profession and to meet the California State requirements under the Department of Business, Transportation and Housing Agency for the real estate licenses of State Licensed Real Estate Property Appraiser.

REAL ESTATE APPRAISAL LICENSE and/or CERTIFICATE: Please contact the California Office of Real Estate Appraisers.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Meet their career preparation goals as well as qualify for a state licensing exam for State Real Estate Appraiser.
- Meet personal or consumer education goals. (Examples: Students will indicate better preparation for making home purchase or sale decisions; students will indicate better preparation for completing real estate finance transactions.)
- Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
- Demonstrate mastery of the skills necessary to become a State Real Estate Appraiser.

Course ID	Title	Units
RE 170	Real Estate Principles	3
RE 176A*	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 176C*	Real Estate Appraisal III	3
RE 200	Uniform Standards of Professional Appraisal Practice (USPAP)	1.5
	Select from Specialty Courses	6
Total Units for the Certificate		19.5

Specialty Courses:

RE 174*	Legal Aspects of Real Estate	3
RE 175*	Real Estate Finance	3
RE 178*	Real Estate Economics	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 1, 135, 137.

Real Estate Escrow Certificate and Degree Program

The Escrow program is designed to educate the student to become an effective escrow professional. Activities related to this field are escrow principles, practice, and professionalism. Associated courses in real estate, management, and office procedures are provided.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Meet their career preparation goals as well as qualify for a state licensing exam to become an Escrow Agent.
- Meet personal or consumer education goals. (Examples: Students will indicate better preparation for making home purchase or sale decisions; students will indicate better preparation for completing real estate finance transactions.)
- Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
- Mastery of the skills necessary to become an Escrow Agent.

Course ID	Title	Units
CIM 120	Computer Literacy	1.5
CIM 121A	Keyboarding for Computers: Beginning	1.5
RE 170	Real Estate Principles	3
RE 172*	Real Estate Practice	3
RE 174*	Legal Aspects of Real Estate	3
RE 175*	Real Estate Finance	3
RE 190	Escrow	3
Total Units for the Certificate		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: (Select two courses to meet the Educational Achievement Award requirements of the California Escrow Association): ACCT 1A, 214; BUS 12, 104, 125, 160; RE 176A, 178.

Real Estate Sales/Broker Certificate and Degree Program

This Real Estate program is designed to educate the student to become an effective Real Estate professional. Activities related to the program are real estate practice, law, appraisal, finance, computations, escrow, investment, exchanging, and taxation.

REAL ESTATE SALESPERSON LICENSE: RE 170, 172, and one additional elective must be completed before enrolling for the State exam. Electives list: BUS 12, RE 174*, 175*, 176A* 178*, 190, 195, 280. Please check with the California Department of Real Estate for any changes.

REAL ESTATE BROKER LICENSE: Five courses are required: RE 172*, 174*, 175*, 176A*, and 178*. In addition, three more courses must be taken from the following list: BUS 12, RE 170, 176B, 190, 195*, 280. Please check with the California Department of Real Estate for any changes. The 30-unit Certificate meets the Broker License examination course requirements.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Meet their career preparation goals as well as qualify for a state licensing exam to become a Real Estate Salesman or Broker.
- Meet personal or consumer education goals. (Examples: Students will indicate better preparation for making home purchase or sale decisions; students will indicate better preparation for completing real estate finance transactions.)
- Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
- Demonstrate mastery of the skills necessary to become a Real Estate Salesman or Broker.

Course ID	Title	Units
RE 170	Real Estate Principles	3
RE 172*	Real Estate Practice	3
RE 174*	Legal Aspects of Real Estate	3
RE 175*	Real Estate Finance	3
RE 176A*	Real Estate Appraisal I	3
RE 178*	Real Estate Economics	3
	Select from Restricted Electives	9
	Select from Specialty Courses	3
Total Units for the Certificate		30

Restricted Electives:

RE 176B	Real Estate Appraisal II	3
RE 190	Escrow	3
RE 195*	Property Management	3
RE 280	Mortgage Loan Brokering and Lending	3

Specialty Courses:

BUS 137	Professional Selling Fundamentals	3
RE 202*	Computer Applications in Real Estate	3
RE 250*	Real Estate License Preparation	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: ACCT 214; BUS 12, 120, 125, 135; CIM 121A; ECON 2, 4; RE 176B, 195.

Social Sciences Associate Degree

The curriculum in the Social Sciences Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the associate degree may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and apply methods, such as observation, hypothesis development, experimentation, evaluation of evidence, or measurement and data collection, used by social scientists to study human behavior.
- Identify and analyze theories explaining the individual, social, historical, political, or economic activities of men and women research and analyze topics from an interdisciplinary perspective.
- Integrate various social-scientific perspectives into the understanding of the subject matter.
- Develop a personal interpretation about issues and matters under study.

Select twelve units within a single area of emphasis which include only courses applicable to the major as noted below. 12

Areas of Emphasis:

ECON 2*, 4*
GEOG 1, 2, 3
HIST 4, 5, 16, 17
PS 1, 4, 12, 14
PSYC 1, 2*, 3*, 7*, 30*
SOC 1, 2, 15*, 30*

Select 6 additional units in a second area of emphasis as listed above

Total Units for the Major	<u>6</u>
	18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete 18 units as described above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate of Arts Degree in Sociology for Transfer

The curriculum in the Associate in Arts in Sociology for Transfer is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree may support attempts to gain entry-level employment in social services or promotion.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify the current goals of sociology.

- Compare and contrast the three main sociological theories in sociology.
- Apply social theories to analyze current or historical topics or events.
- Differentiate social research and social research methods from other research models.
- Evaluate current social research.
- Describe the role that culture plays in affecting group as well as individual behaviors.
- Differentiate between Sociology and the other social sciences.
- Define and apply the sociological imagination/sociological perspective.
- Identify and apply specific sociological terms and concepts.
- Explain how various social locations such as class, race, gender, age and sexuality are vital to the study of sociology and apply them to specific sociological topics.
- Identify specific social problems and their cause-effect patterns.
- Critically evaluate the proposed ways to alleviate the major social problems facing society today.
- Identify and analyze social change and the impact on society.
- Examine and analyze institutional influences on individuals, groups, and society.
- Identify and evaluate community support services and agencies.

Course ID	Title	Units
Required Courses:		
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
MATH 10*	Introduction to Statistics	3
Select two of the following courses (6 Units)		
SOC 15*	Socialization of the Child	3
SOC 20	Ethnic Cultures of the United States	3
SOC 21	Women in Contemporary Society	3
SOC 25*	Social Stratification	3
SOC 30*	Social Psychology	3
Select one of the following courses or any of the courses not selected above (3 Units)		
ANTH 2	Cultural Anthropology	3
ECON 2*	Principles of Economics (Macro)	3
ECON 4*	Principles (Micro)	3
PHIL 12*	Introduction to Logic	3
PS 1	American Government	3
PSYC 1	Introduction to Psychology	3
PSYC 2*	Research Methods in Psychology	3
SOC 6	Introduction to Asian Cultures in the United States	3
SOC 10	Introduction to Marriage and the Family	3
SOC 125*	Sociology of Aging	3
SOC 126*	Death and Dying	3
SOC 180	Introduction to Gerontology	3
Total Units for the Major		18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Spanish

Spanish Associate Degree Program

The Spanish Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Spanish. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Spanish vocabulary.
- Use proficient conversational skills in Spanish.

- Read and write in Spanish.
- Demonstrate introductory cultural and historic knowledge of Spanish speaking people.

Course ID	Title	Units
SPAN 1*	Elementary Spanish	5
SPAN 2*	Elementary Spanish	5
SPAN 3*	Intermediate Spanish	5
SPAN 4*	Intermediate Spanish	5
SPAN 901*	Spanish Language Lab	.25
SPAN 902*	Spanish Language Lab	.25
SPAN 903*	Spanish Language Lab	.25
SPAN 904*	Spanish Language Lab	.25
Select one course from Restricted Electives:		3
Total Units for the Major		24
Restricted Electives		
ARAB 21*	Introduction to Arabic Culture	3
CHI 21*	Introduction to Chinese Culture and Influence in the United States	3
FR 10*	Intermediate Conversational French	3
FR 21*	Introduction to French Language and Culture	3
GER 10*	Intermediate Conversational German	3
ITA 21*	Introduction to Italian Culture	3
JA 21*	Introduction to Japanese Culture	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America Through 1900	3
SPAN 21B*	Civilization of Latin American 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate in Arts Degree in Spanish for Transfer

The curriculum in the Spanish program is designed to provide the transfer student an Associate in Arts in Spanish for Transfer degree by providing the necessary breadth in the field and the ability to complete both preparatory coursework for Spanish along with courses required for general education. Students who complete the Associate in Arts in Spanish for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Spanish vocabulary.
- Use proficient conversational skills in Spanish.
- Read and write in Spanish.
- Demonstrate introductory cultural and historic knowledge of Spanish speaking people.

Course ID	Title	Units
Required Courses		
SPAN 1	Elementary Spanish	5
SPAN 2*	Elementary Spanish	5
SPAN 3*	Intermediate Spanish	5
SPAN 4*	Intermediate Spanish	5

Substitution Courses:

If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units to compensate for the course/units required to reach at least 18 total units in the major (per Title 5 regulations). Course substitutions must be selected below.

SPAN 6*	Intermediate Spanish Grammar & Composition	3
SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America through 1900	3
SPAN 21B*	Civilization of Latin America 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

GROUP A: Select one of the following courses (3 units)

SPAN 10*	Intermediate Conversational Spanish	3
SPAN 20A*	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A*	Civilization of Latin America through 1900	3
SPAN 21B*	Civilization of Latin America 1900-Present	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3

Total Units for the Major 21-23

*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

Theatre Arts

Associate in Arts Degree in Theatre Arts for Transfer

The Associate in Arts in Theatre Arts for Transfer degree will provide the student a broad introduction to making theatre. This degree is designed for the student with an interest in pursuing theatre as a profession who has not yet decided where to specialize. As such the student will receive a broad overview of the many aspects of theatre, including performance, design, theatre history, lighting, costumes, and stagecraft. Students who complete the Associate in Arts in Theatre Arts for transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to page 49 for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to

- Recognize standard practices of ensemble playing in a rehearsal/performance environment.
- Compare and analyze the theories and techniques of acting from a historical perspective.
- Analyze texts and scripts as they pertain to performance.
- Demonstrate skill for technical aspects of acting, including physical, vocal, imaginative, analytical and emotional elements.
- Compare and contrast theatrical periods and styles in terms of acting, directing, playwriting, and technical elements.

- Apply imagination and character analysis to identify and describe the personality and motivations of a given character.
- Apply technical processes, including lighting, set, costume, and/or stage make-up design, as they pertain to a given dramatic script.

Course ID	Title	Units
Required Core Courses: (9-10 units)		
TA 20	Theatre Appreciation	3
TA 1	Fundamentals of Acting	3

Select 3-4 units Rehearsal and Performance Production; courses may be repeated:

TA 15*	Rehearsal and Performance: Drama	2
TA 16*	Rehearsal and Performance: Comedy	2
TA 17*	Rehearsal and Performance: Mixed Genres	2
TA 18*	Rehearsal and Performance: Dance	1
TA 113*	Rehearsal and Performance: Children's Theatre	2

OR

Select a maximum of 3 units in Technical Theatre in Production

ETT 142*	Theatre Production	1
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List A: Select three courses (9 units)

TA 2*	Scene Study I	3
ETT 41*	Stage Lighting	3
ETT 42	Costume Design	3
ETT 40	Stagecraft	4
TA 15*•	Rehearsal and Performance: Drama	2
TA 16*•	Rehearsal and Performance: Comedy	2
TA 17*•	Rehearsal and Performance: Mixed Genres	2
TA 18*•	Rehearsal and Performance: Dance	1
TA 113*•	Rehearsal and Performance: Children's Theatre	2
ETT 142*•	Theatre Production	1

Total Units for the Major 18-19

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

- A maximum of three units may be taken in Rehearsal and Performance Production (TA 15, 16, 17,18, 113) OR Technical Theatre in Production (ETT 142) to be counted toward List A requirements. Courses taken to fulfill core requirements may not be taken again to meet List A requirements.

Theatre Arts Entertainment and Theatre Technology Certificate Program

The Saddleback College Entertainment and Theatre Technology certificate program provides the student with a career preparation for entry-level positions in the professional entertainment industry. A comprehensive and intensive two-year program offers students the opportunity to explore fundamentals of a wide variety of practical career opportunities. Technical theatre students participate in the hands-on experience of creating all of the technical elements of Theatre Arts Department productions as well as other live events on the Saddleback College campus.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for entry level positions in the professional entertainment industry.
- Demonstrate technical skills in a wide variety of applications related to theatrical production.
- Demonstrate competence in the production of live events.

Course ID	Title	Units
ETT 40	Stagecraft	4
ETT 100*	Applied Technical Theatre Production	3
ETT 103	Entertainment Internship	1
ETT 142	Theatre Production	.5, .5, .5, 1
ETT 240*	Advanced Stagecraft	3
TA 1	Fundamentals of Acting	3
TA 20	Theatre Appreciation	3
	Select from Appreciation & History	3
	Select from Restricted Electives	4-7

Total Units for the Certificate 26.5-29.5

Appreciation and History:

ART 20	Art Appreciation	3
CTVR 3	The History and Appreciation of American Cinema	3
DANC 64	History of Dance	3
MUS 20	Music Appreciation	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
TA 22	Musical Theatre History and Appreciation	3

Restricted Electives:

ETT 41*	Stage Lighting	3
ETT 42	Costume Design	3
ETT 101*	Fundamentals of Design and Graphics for Theatre	3
ETT 130	Theatre Management	3
ETT 144*	Theatre Scenery Painting	2
ETT 201*	Entertainment Computer Aided Drafting	2
ETT 246 *	Theatre Audio Techniques	3
MUS 118/CTVR 118	Sound Recording	4
TA 102*	Stage Management	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Theatre Arts Performance and Acting Associate Degree Program

The curriculum in the Theatre Arts, Performing/Acting Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. A baccalaureate degree or higher is recommended for those considering professional career related to this field. An Associate Degree would demonstrate commitment to the major for those transferring to other institutes of higher learning and may support attempts to gain employment in the field.

Program Student Learning Outcomes

Students who complete this program will be able to

- Recognize standard practices of ensemble playing in a rehearsal/performance environment
- Compare and analyze the theories and techniques of acting from a historical perspective
- Analyze texts and scripts as they pertain to performance
- Demonstrate skill for technical aspects of acting, including physical, vocal, imaginative, analytical and emotional elements
- Compare and contrast theatrical periods and styles in terms of acting, directing, playwrighting, and technical elements
- Apply imagination and character analysis to identify and describe the personality and motivations of a given character
- Apply technical processes, including lighting, set, costume, and/or stage make-up design, as they pertain to a given dramatic script

Course ID	Title	Units
ETT 40	Stagecraft	4
TA 1	Fundamentals of Acting	3
TA 2*	Scene Study I	3
TA 11	Stage Movement	3
TA 43	Stage Make-up	1
	Select from Appreciation and History	3
	Select from Rehearsal and Performance	.5-2
	Select from Acting	6
	Select from Restricted Electives	3
Total Units for the Major		26.5-28

Appreciation and History:

TA 25	Theatre History: Primitive to Renaissance	3
TA 26	Theatre History: Renaissance to Contemporary	3

Rehearsal and Performance:

ETT 142	Theatre Production	.5 or 1
TA 15	Rehearsal and Performance: Drama	1
TA 16	Rehearsal and Performance: Comedy	1
TA 17	Rehearsal and Performance: Mixed Genres	1
TA 18	Rehearsal and Performance: Dance	2
TA 19	Rehearsal and Performance: Musical Theatre	1

Acting

TA 3*	Scene Study II	3
TA 4*	Acting Styles I	3
TA 5*	Acting Styles II	3
TA 10	Musical Theatre Techniques	3
TA 290*	Acting for Television and Film	3

Restricted Electives:

ETT 41*	Stage Lighting	3
ETT 42	Costume Design	3
ETT 45*	Scene Design	3
ETT 101*	Fundamentals of Design and Graphics for Theatre	3
TA 102*	Stage Management	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: TA 12, 20, 22, 30, 32, 108, 110, 113, 130.

Theatre Arts Technical Theatre Associate Degree Program

The Entertainment and Theatre Technology program prepares students with the necessary skills to obtain entry level positions in the technical fields of the entertainment industries.

The Associate degree is designed to prepare students to transfer to a baccalaureate or higher degree program.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for entry level positions in the professional entertainment industry.
- Demonstrate the basic components of stagecraft.
- Demonstrate a variety of acting techniques.

ETT 240* is a non-transferable course required by the Theatre Arts Department for this degree.

Course ID	Title	Units
ETT 40	Stagecraft	4
ETT 100*	Applied Technical Theatre Production	3
ETT 142	Theatre Production	1
ETT 240 *	Advanced Stagecraft	3
TA 1	Fundamentals of Acting	3
	Select from Appreciation & History	3
	Select from Restricted Electives	3-6
Total Units for the Major		18-23

Appreciation and History:

TA 20	Theatre Appreciation	3
TA 25	Theatre History: Primitive to Renaissance	3
TA 26	Theatre History: Renaissance to Contemporary	3

Restricted Electives:

ETT 41*	Stage Lighting	3
ETT 42	Costume Design	3
ETT 45*	Scene Design	3
ETT 101*	Fundamentals of Design and Graphics for Theatre	3

ETT 104	Costume Crafts	3
ETT 130	Theatre Management	3
ETT 144*	Theatre Scenery Painting	2
TA 102*	Stage Management	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree

Complete units as described above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Scenic Art and Painting Occupational Skills Award

The Entertainment and Theatre Technology, Scenic Artist and Painting Occupational Skills Award is designed to prepare the student for employment as a scenic artist and painter in the entertainment industry; including theatre, theme parks, television, movies, corporate events, trade shows, sporting events, faith-based events, and all other forms of live entertainment. The program is designed to develop a solid foundation of skills so students can work closely with Designers, art directors and other professionals in the various areas that make up the Entertainment Industry as well as other industries that utilize the skills of a scenic artist. Students are required to participate as paint crew on the Department of Theatre Arts productions as well as other field work.

Course ID	Title	Units
First Semester		
ETT 142	Theatre Production	1
ETT 144*	Theatre Scenery Painting	2
ETT 244*	Advanced Scenery Painting	3
Second Semester		
ETT 142	Theatre Production	1
ETT 242*	Styles of Paint for the Entertainment Industry	3
CWE 180	Cooperative Work Experience: ETT	2
Total Units for the Award		12

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Travel and Tourism Certificate and Degree Program

The Travel and Tourism program is designed to prepare students for careers in the travel agency industry. The program stresses the following: ticketing and reservations, major tourist areas and resorts, fares and routes, tour promotion, and planning. The program covers all aspects of travel including air, cruise ships, rail, and car.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Support their choice of cruise itineraries presented in a written form based on the standards of the industry, use a pre-determined criteria checklist and compare cruise features and benefits, both tangible and intangible, as well as price, value and individual preference.
- Build a Passenger Name Record (PNR) in the airline computer training strand of the program.
- Identify geographic locations.

Course ID	Title	Units
CWE 180*	Cooperative Work Experience: Travel Agency	1
TOUR 250	Introduction to Travel and Tourism	3
TOUR 252	World Destinations/Resorts — Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa	3
TOUR 255	Selling Dreams – The Travel Industry	3
TOUR 257	Tours and Cruises	3

TOUR 259*†	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training Operation	2

Total Units for the Certificate **23**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Recommended to be taken in last semester of program.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: BUS 1, 102, 125, 135, 137, 138; CIM 121A, 121B.

Women's and Gender Studies Associate Degree Program

The curriculum in the Women's and Gender Studies Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate commitment to the major. Attainment of an Associate degree may support attempts to gain entry-level employment.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Articulate an interdisciplinary understanding of gender and gender dynamics.
- Explain diversity and difference gender, race, class, sexual orientation, nationality, religion, and ability.
- Analyze social problems as they relate to gender and inequality.
- Evaluate various career options related to women's and gender studies.

Core Requirement

Course ID	Title	Units
WS 10	Introduction to Women's Studies	3
Majors must also select a minimum of 17 units from the following courses:		
ANTH 21	Women and Culture: Cross-Cultural Perspectives	3
ART 21	Women and Art	3
CTVR 9	Women in Cinema and Television	3
HIST 21	Women in United States History: A Multicultural Perspective	3
HLTH 3	Women's Health Issues	3
MUS 29	Women, Music, and Society	3
PSYC 21	The Psychology of Women	3
SOC 21	Women in Contemporary Society	3
SP 8	Gender Communication	3
WS 120	Women and Careers	3
Total Units for the Major		20

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.