

ASSOCIATE DEGREE PROGRAMS



ASSOCIATE DEGREE PROGRAMS CERTIFICATES OF ACHIEVEMENT CERTIFICATES OF PROFICIENCY

Department-issued certificate which does not appear on a student's transcript.

Courses that satisfy a degree or certificate requirement must be completed with a letter grade of "C" or higher.

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* A.S. Degree • Certificate of Achievement
+ A.A. Degree ◆ Certificate of Proficiency
(Department-issued certificate which does not appear on a student's transcript.)

Course choices for transfer and the associate degree may differ between Cuyamaca and Grossmont College. Each college strongly recommends that students visit the Counseling Centers for specific information if they plan to attend both campuses.



Associate Degree
for Transfer™

ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER (A.S.-T)

The Associate in Science in Administration of Justice for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18-19 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Administration of Justice for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Associate in Science in Administration of Justice for Transfer degree is designed for students who are planning a career in Administration of Justice and wish to transfer to a CSU to complete a bachelor's degree in Criminal Justice. A student may apply for this degree in conjunction with an Associate in Science in Administration of Justice with an emphasis in Law Enforcement, Corrections, or Forensic Technology, provided the required courses are met for those emphasis degrees. Many of the required courses for the emphasis degrees meet the requirements for the transfer degree. A student should speak with a counselor to verify if requirements for the degree have been met.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing the specific degree requirements in this program. Students will:

1. Demonstrate knowledge, skills, and attitudes relevant to the AOJ degree program completed.
2. Demonstrate ethical and professional behavior.
3. Communicate effectively, in written, verbal and non-verbal forms.
4. Demonstrate excellent human relations and workplace skills.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Adm. of Justice 110*	Introduction to Administration of Justice	3
Adm. of Justice 200	Criminal Law	3
	Total	6

List A

Select TWO (2) of the following courses:

Adm. of Justice 125	Introduction to Corrections	3
Adm. of Justice 202	Criminal Evidence	3
Adm. of Justice 204	Criminal Trial Process	3
Adm. of Justice 206	Criminal Investigation	3
Adm. of Justice 208	Juvenile Procedures	3
Adm. of Justice 240	Community and the Justice System	3
	Total	6

List B

Select TWO (2) of the following courses:

(minimum 6 units):		
Any List A course not used above or		
Mathematics 160*	Elementary Statistics	4
or		
Anthropology / Psychology / Sociology 215*	Statistics for the Behavioral Sciences	(4)
Political Science 121*	Introduction to U.S. Government and Politics	3
Sociology 120*	Introductory Sociology	3
Sociology 130*	Contemporary Social Problems	3
	Total	6-7
Units for the major		18-19
Units for CSU GE or IGETC-CSU GE		37-39
Total units required for the degree		60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

ADMINISTRATION OF JUSTICE

Students planning careers in Administration of Justice may elect a program from the five options that follow: Law Enforcement, Corrections, Forensic Technology or Security Management. The programs are designed to meet lower division university transfer, job entry, or promotion requirements, depending on student need.

Students seeking employment with local, state or federal law enforcement agencies specialize in Law Enforcement. Students seeking careers in a jail or prison system, parole, probation or certain aspects of social work may specialize in Corrections. Students who desire a career in scientific criminal investigation and in crime laboratories may specialize in Forensic Technology. Students interested in government, homeland defense, or corporate security, should pursue the Security Management area of emphasis.

The Administration of Justice Department also offers a Police Academy, Corrections Academy, Security Academy, and an Emergency Dispatch course.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Adjudicator/Judge*
 Arson Investigator
 Bar Examiner*
 Correctional Officer
 Crime Lab/Forensic Technician
 Dispatcher
 District Attorney*
 Lawyer/Prosecutor/Public Defender*
 Evidence Technician/Specialist
 Federal Law Enforcement*
 Border Patrol Agent*
 FBI*
 Immigration and Customs Enforcement
 Postal Inspector
 Transportation Security Administration Officer
 Treasury Agent*
 Secret Service*
 U.S. Marshall*
 Fingerprint Examiner
 Forensic Scientist*
 Forensic Specialist
 Fraud/Forgery Investigator
 Latent Print Examiner
 Parole/Probation Officer
 Police Officer/Deputy Sheriff/Highway Patrol
 Security Director*
 Security Manager
 Security Officer
 Traffic Officer
 *Bachelor's Degree or higher is usually required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate knowledge, skills, and attitudes relevant to the AOJ certificate/degree program completed.
2. Demonstrate ethical and professional behavior.
3. Communicate effectively, in written, verbal and non-verbal forms.
4. Demonstrate excellent human relations and workplace skills.

Associate Degree Major Requirements Core Curriculum

For Law Enforcement and Corrections areas of emphasis only.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Adm. of Justice 110	Introduction to Administration of Justice	3
Adm. of Justice 200	Criminal Law	3
Adm. of Justice 202	Criminal Evidence	3
Adm. of Justice 204	Criminal Trial Process	3
Adm. of Justice 230	Public Safety Communications	3
Adm. of Justice 240	Communication and the Justice System	3
	Total	18

Area of Emphasis Law Enforcement

Requires TWELVE (12) additional units to be selected from the list of courses below:

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Adm. of Justice 111	Introduction to Security Management	3
Adm. of Justice 120	Community Policing and Patrol Procedures	3
Adm. of Justice 122	Traffic Law & Enforcement	3
Adm. of Justice 128	Arrest and Control	1
Adm. of Justice 142	Legal Systems & Court Management	3
Adm. of Justice 155	Mobile Forensics	3
Adm. of Justice 206	Criminal Investigation	3
Adm. of Justice 208	Juvenile Procedures	3
Adm. of Justice 210	Public Safety Administration	3
Adm. of Justice 214	Public Service Internship	2
Adm. of Justice 215	Public Service Internship	2
	Total	12
	Total Required	30
	Plus General Education and Elective Requirements	

Area of Emphasis Corrections

Requires ELEVEN (11) additional units to be selected from the list of courses below:

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Adm. of Justice 111	Introduction to Security Management	3
Adm. of Justice 125	Introduction to Corrections	3
Adm. of Justice 126	Control and Supervision in Corrections	3
Adm. of Justice 128	Arrest and Control	1
Adm. of Justice 140	Correctional Counseling and Interviewing	3
Adm. of Justice 208	Juvenile Procedures	3
Adm. of Justice 210	Public Safety Administration	3
Adm. of Justice 214	Public Service Internship	2
Adm. of Justice 215	Public Service Internship	2
	Total	11
	Total Required	29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the Administration of Justice core curriculum plus one of the areas of emphasis qualifies for a Certificate of Achievement in that area. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Forensic Technology

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Adm. of Justice 110	Introduction to Administration of Justice	3
Adm. of Justice 148	Fingerprint Identification	3
Adm. of Justice 150	Forensic Photography	4
Adm. of Justice 155	Mobile Forensics	3
Adm. of Justice 200	Criminal Law	3
Adm. of Justice 202	Criminal Evidence	3
Adm. of Justice 206	Criminal Investigation	3
Adm. of Justice 218	Forensic Technology	4
Adm. of Justice 220	Advanced Forensic Technology	4
Adm. of Justice 252	Advanced Forensic Photography	4
Adm. of Justice 254	Advanced Fingerprint Identification	3
Biology 120	Principles of Biology	4
Chemistry 113	Forensic Chemistry	4
	Total	45
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Adm. of Justice 224	Forensic Public Service Internship	2
Adm. of Justice 225	Forensic Public Service Internship	2
Biology 140	Human Anatomy	5

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Forensics Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Security Management

The Security Management program leads to a Certificate of Achievement and/or Associate Degree and is designed to prepare individuals for entry level management positions in loss prevention and asset protection in government and business. Security management is one of the fastest growing public safety and business-related occupations. Career opportunities exist in a wide variety of public and private organizations including contract service, government, healthcare, homeland defense, industrial, entertainment, sports, retail, and transportation environments. Salaries for security managers are competitive with those found in public law enforcement and business management occupations.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Adm. of Justice 110	Introduction to Administration of Justice	3
Adm. of Justice 111	Introduction to Security Management	3
Adm. of Justice 201	Legal Aspects of Security Management	3
Adm. of Justice 207	Investigative Techniques for Security Management	3
Adm. of Justice 210	Public Safety Administration	3
Adm. of Justice 230	Public Safety Communications	3
Adm. of Justice 260	Information Security	3
Adm. of Justice 264	Terrorism and Homeland Security	3
	Total Required	24
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Security Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Certificate of Proficiency

The following Certificate of Proficiency is designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. This certificate will not appear on a student's transcript.

Corrections Academy

This course addresses specific instructional and performance objectives for those seeking employment as corrections officers in local or county jails, adult probation, and community correctional facilities in California.

Note: This course must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
AOJ 107	Corrections Academy	10.5
	Total	10.5

AMERICAN SIGN LANGUAGE

The ASL degree is designed for students to acquire advanced expressive and receptive signing skills. It also gives students greater awareness of the Deaf culture and Deaf community. This degree is meant for the student who wants to work with Deaf people. Communicating in sign language and understanding Deafness is critical in any career where one works with Deaf and hard of hearing people. The emphasis is on paraprofessional vocations such as teacher's aid, child care worker, etc. Students completing the ASL degree may wish to transfer to a four year institution or continue their studies in interpreting.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Case Worker
 Certified Translator
 Certified Terminologist
 Education Counselor
 Interpreter
 ASL (American Sign Language)
 Certified
 Conference
 Court
 Educational
 Foreign Broadcast
 Legal
 Literacy
 Medical
 Program Coordinator
 Rehabilitation Counselor
 Teacher

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Converse fluently in ASL with peers both hearing and Deaf by applying the language in conversations, ASL storytelling, or narratives.
2. Understand the grammar structures of ASL and apply them in dialogues.
3. Demonstrate knowledge of the Deaf culture heritage and Deaf values through presentations, papers, and written exams.
4. Demonstrate knowledge of local and national resources for Deaf, hard of hearing, and late Deafened adults through presentations, papers, exams, or group demonstrations.
5. Demonstrate an awareness how to work with Deaf people in a variety of settings through community service learning.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
American Sign Language 120	American Sign Language I	4
American Sign Language 121	American Sign Language II	4
American Sign Language 122	Conversation Lab I	1
American Sign Language 130	American Sign Language: Fingerspelling	3
American Sign Language 131	American Sign Language: Fingerspelling II	3
American Sign Language 140	Inside Deaf Culture	3
American Sign Language 220	American Sign Language III	4
American Sign Language 221	American Sign Language IV	4
American Sign Language 222	Conversation Lab II	1
Psychology 120	Introduction to Psychology	3
Total		30
Plus General Education and Elective Requirements		

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a certificate of Achievement in American Sign Language. An official request from the student must be filed with the Admissions and Records Office prior to the deadline stated in the yearly calendar which is listed in the class schedule and catalog.

Note: All courses must be completed with a letter grade of "C" or higher.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER (A.A.-T)

The Associate in Arts in Anthropology for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB1440. A total of 19-21 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Anthropology for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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) Obtaining of a minimum grade point average of 2.0. Students are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis. A "Pass" grade is not an acceptable grade for courses in the major.

Anthropology is the study of all aspects of humans, from the time of the earliest human ancestors to contemporary societies. Students of anthropology learn to develop a broad perspective on humanity, apply scientific research methods, and work effectively in a multi-cultural environment. These competencies can help students succeed in a global society.

A major in anthropology offers a solid foundation for students planning undergraduate and graduate work in anthropology, archaeology, or related fields in the social sciences or life sciences. Anthropology is an excellent background for professional training in medicine, education, law, business or social work, and for careers in the private sector, government and non-profit organizations.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Define and demonstrate an anthropological perspective built upon a holistic understanding of cultural and biological systems.
2. Explain the process of evolution by natural selection, with an emphasis on human and primate evolution.
3. Demonstrate awareness of cultural variation and the diversity of perspectives, practices, and beliefs found within and across cultures.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Anthropology 120*	Cultural Anthropology	3
Anthropology 130*	Introduction to Physical Anthropology	3
Anthropology 140*	Introduction to Archaeology	3
	Total	9

List A (a minimum of 3 units)

Select ONE (1) of the following:

Subject & Number	Title	Units
Anthropology 215*	Statistics for the Behavioral Sciences	4
or		
Mathematics 160*	Elementary Statistics	(4)
	Total	4

List B (3-5 units)

Select ONE (1) to TWO (2) of the following:

Biology 140*	Human Anatomy	5
Geography 104*	Introduction to Geographic Information Systems	3
Geology 110*	Planet Earth	3
and		
Geology 111*	Planet Earth Laboratory	1
Psychology 205	Research Methods for Psychology	3
Science 110*	Introduction to Scientific Thought	3
	Total	3-5

List C (3 units)

Select ONE (1) of the following OR any course from List B not already used or:

Anthropology 131*	Physical Anthropology Laboratory	1
Communication 124*	Intercultural Communication	3
Cross Cultural Studies 114	Introduction to the Sociology of Minority Group Relations	3
or		
Sociology 114	Introduction to the Sociology of Minority Group Relations (3)	
Cross Cultural Studies 115*	Cross Cultural Awareness	3
Cross Cultural Studies 125*	Cross Cultural Psychology	3
or		
Psychology 125*	Cross Cultural Psychology	(3)
Cross Cultural Studies 144*	Communication Studies: Race and Ethnicity	3
Geography 130*	Human Geography: The Cultural Landscape	3
History 114*	Comparative History of the Early Americas	3
History 115*	Comparative History of the Modern Americas	3
Religion 120*	World Religions	3
Sociology 120*	Introductory Sociology	3
	Total	3
Units for the major		19-21
Units for CSU GE or IGETC – CSU GE		37-39
Total units required for the degree		60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

ARABIC

This program is designed to provide students with skills in understanding, speaking, reading, and writing Arabic. It also gives students a greater understanding of Arabic culture and civilization and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken, and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of Foreign Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising
Bilingual Aide
Foreign Correspondent*
Foreign Broadcast Specialist*
Import-Export Agent
In-Country Representative
Intelligence Specialist
Journalist*
Manufacturer's Representative
Sales Person
Scientist Linguist
Teacher/Professor*
Translator/Interpreter*
Travel Agent
United Nations Guide

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health and well-being, professions and occupations, the arts, current events, and politics
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city, life, health and well-being, professions and occupations, the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Arabic 120	Arabic I	5
Arabic 121	Arabic II	5
Arabic 148	Language, Culture, and Literature of the Arab World	3
Arabic 220	Arabic III	5
or		
Arabic 122	Arabic for the Native Arabic Speaker I	(5)
Arabic 221	Arabic IV	5
or		
Arabic 123	Arabic for the Native Arabic Speaker II	(5)
Arabic 250	Conversational Arabic I	3
Arabic 251	Conversational Arabic II	3
	Total Required	29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Arabic. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER (A.A.-T)

The Associate in Arts in Art History for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Art History for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The A.A.-T degree in Art History offers an engaged approach towards artistic practice and critical discourse through a variety and breadth of studio arts and art history courses, including two- and three-dimensional design, ceramics, digital art, drawing and painting, photography and sculpture.

The Visual Arts and Humanities Department fosters appreciation of culture through intellectual and practical engagement with the visual arts and humanities. Its mission is to teach artistic and critical thinking skills and an understanding of culture and history for degree, transfer and career-seeking students. The Department values excellence and empowerment through creative expression, community engagement, and respect for the diversity of culture and the human experience.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Describe the important elements in the medium of art they are studying.
2. Interpret art in the medium they are studying.
3. Evaluate art in the medium they are studying.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Art 124	Drawing I	3
Art 140*	History of Western Art I: Pre-Historic to 1250 A.D.	3
Art 141*	History of Western Art II: Circa 1250 A.D. to Present Time	3
	Total	9

List A

Select ONE (1) of the following courses:

Art 142*	Art of Africa, Oceania and the Americas	3
Art 146*	Asian Art	3
	Total	3

List B

Select ONE (1) of the following courses:

Art 120*	Two Dimensional Design	3
Art 129	Three-Dimensional Design	3
	Total	3

List C

Select ONE (1) of the following:

Any List A or List B course not used above or Art 142*	Art of Africa, Oceania and the Americas	3
Art 143*	Modern Art	3
Art 145*	Contemporary Art History: 1945-Present	3
Art 146*	Asian Art	3
Art 147*	American Art	3
	Total	3
	Units for the major	18
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.



ASSOCIATE IN ARTS IN STUDIO ART FOR TRANSFER (A.A.-T)

The Associate in Arts in Studio Art for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 24 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Studio Art for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The A.A.-T degree in Studio Art offers an engaged approach towards artistic practice and critical discourse through a variety and breadth of studio arts and art history courses, including two- and three-dimensional design, ceramics, digital art, drawing and painting, photography and sculpture.

The Visual Arts and Humanities Department fosters appreciation of culture through intellectual and practical engagement with the visual arts and humanities. Its mission is to teach artistic and critical thinking skills and an understanding of culture and history for degree, transfer and career-seeking students. The Department values excellence and empowerment through creative expression, community engagement, and respect for the diversity of culture and the human experience.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Describe the important elements in the medium of art they are studying.
2. Interpret art in the medium they are studying.
3. Evaluate art in the medium they are studying.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Art 120*	Two Dimensional Design	3
Art 124	Drawing I	3
Art 129	Three-Dimensional Design	3
Art 141*	History of Western Art II: Circa 1250 A.D. to Present Time	3
	Total	12

List A

Select ONE (1) of the following courses:

Art 140*	History of Western Art I: Pre-Historic to 1250 A.D. (Recommended)	3
Art 142*	Art of Africa, Oceania and the Americas	3
Art 143*	Modern Art	3
Art 145*	Contemporary Art History: 1945 - Present	3
Art 146*	Asian Art	3
	Total	3

List B

Select THREE (3) of the following courses:

Art 121	Painting I	3
Art 125	Drawing II	3
Art 126*	Ceramics I	3
Art 130*	Sculpture I	3
Art 131	Jewelry Design I	3
Art 171	Introduction to Digital Art	3
Art 230	Figure Drawing I	3
Photography 150	Introduction to Photography	3
	Total	9
	Units for the major	24
	Units for CSU GE or IGETC-CSU GE	37 - 39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE.

ART

The AA – Art degree offers an engaged approach towards artistic practice and critical discourse through a variety and breadth of studio arts and art history courses, including two- and three-dimensional design, ceramics, digital art, drawing and painting, photography and sculpture. In addition to the core requirements, students can further pursue an emphasis of studio practice specific to their area of interest, including Ceramics, Digital Art, Drawing and Painting as well as Sculpture/Public Art.

Students planning to transfer to SDSU or any other four-year institution should consult with a counselor as well as with the Visual Arts and Humanities department chair.

The Visual Arts and Humanities Department fosters appreciation of culture through intellectual and practical engagement with the visual arts and humanities. Its mission is to teach artistic and critical thinking skills and an understanding of culture and history for degree,

transfer and career-seeking students. The department values excellence and empowerment through creative expression, community engagement, and respect for the diversity of culture and the human experience.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising Manager*

Antique Dealer

Architect*

Art Therapist*

Ceramist

Curator*

Cartoonist+

Designer+

Fashion

Floral

Graphic

Interior

Display Manager

Layout Artist

Museum Technician

Painter/Sculptor

Photographer

Police Artist

Set Designer

Teacher/Professor*

Technical Illustrator

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Describe the important elements in the medium of art they are studying.
2. Interpret art in the medium they are studying.
3. Evaluate art in the medium they are studying.

Associate Degree Major Requirements Core Curriculum

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 120	Two Dimensional Design	3
Art 124	Drawing I	3
Art 129	Three-Dimensional Design	3
Art 140	History of Western Art I: Pre-Historic to 1250 A.D.	3
or		
Art 141	History of Western Art II: Circa 1250 A.D. to Present Time	(3)
	Total Core	12
	Plus General Education and Elective Requirements	

Area of Emphasis**Ceramics**

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 126	Ceramics I	3
Art 127	Ceramics II	3
Art 128	Ceramics III	3

Select ONE (1) of the following:

Art 136	Glaze Formation	3
Art 226	Ceramics IV	3
Art 227	Ceramics Exhibition and Portfolio	3
	Total	12
	Plus Core	12
	Total Required	24
	Plus General Education and Elective Requirements	

Area of Emphasis**Digital Art**

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 171	Introduction to Digital Art	3
Art 175	Digital Imaging and Art	3

Select TWO (2) of the following:

Art 172	Interactive Media Art	3
Art 177	Digital Drawing and Painting	3
Art 184	Drawing for Animation	3
Photography 150	Introduction to Photography	3
	Total	12
	Plus Core	12
	Total Required	24
	Plus General Education and Elective Requirements	

Area of Emphasis**Drawing and Painting**

Note: All courses must be completed with a "C" grade or higher.

Subject & Number	Title	Units
Art 121	Painting I	3
Art 125	Drawing II	3
Art 230	Figure Drawing I	3

Select ONE (1) of the following:

Art 220	Painting II	3
Art 231	Figure Drawing II	3
Art 240	Drawing the Human Head	3
	Total	12
	Plus Core	12
	Total Required	24
	Plus General Education and Elective Requirements	

Area of Emphasis**Sculpture - Public Art**

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 130	Sculpture I	3
Art 229	Sculpture II	3

Select TWO (2) of the following:

Art 280	Sculpture III: The Structure of Sculpture	3
Art 281	Studio Workshop in Public Sculpture	3
Art 282	Public Art Fabrication and Installation	3
	Total	12
	Plus Core	12
	Total Required	24
	Plus General Education and Elective Requirements	

Photography

The Associate of Arts in Photography provides students an in-depth study into the practice and critical discourse of photography, photographic seeing and lens-based culture as a visual document of creative expression and communication. The fundamentals of analog and digital photography are set within a series of foundation, intermediate and advanced courses which reference the rich history of the medium as well as contemporary practice, providing students the opportunity to define his or her path whether it is transfer, career development and/or personal enrichment.

The Program-level Student Learning Outcomes (PSLOs)

(**PSLOs**) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Recognize and recall the characteristics and application of photographic tools, materials and processes in the production of photographs that apply to such photographic genres as art, commercial, fashion, editorial, photojournalism and documentary.
2. Recognize, recall and demonstrate proper laboratory procedures and practices to produce photographs of optimum technical craft.
3. Recognize, discuss and appraise/analyze/criticize visual themes and concepts, aesthetic and technical considerations within photography's historical and contemporary contexts.
4. Create photographs that demonstrate the comprehension, knowledge and application of photography's visual and technical attributes in developing a personal photographic vision.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 120	Two Dimensional Design	3
Art 124	Drawing I	3
Art 129	Three Dimensional Design	3
Art 140	History of Western Art I: Pre-Historic to 1250A.D.	3
or		
Art 141	History of Western Art II: Circa 1250A.D. to Present Time	3
Photography 150	Introduction to Photography	3
Photography 151	Personal Photographic Vision	3
Photography 152	Contemporary Photographic Practice	3
Photography 154	History of Photography	3
Photography 166	Image and Idea	3
Photography 252	Photographer's Portfolio	3
	Total required	30
	Plus General Education and Elective Requirements	

Certificate of Achievement

Photography

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Photography 150	Introduction to Photography	3
Photography 151	Personal Photographic Vision	3
Photography 152	Contemporary Photographic Practice	3
Photography 154	History of Photography	3
Photography 166	Image and Idea	3
Photography 252	Photographer's Portfolio	3
	Total	18

Certificate of Achievement

Any student who chooses to complete only the courses listed above qualifies for a Certificate of Achievement in Photography. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

BIOLOGICAL SCIENCES

The Biological Sciences Department offers a solid academic foundation for further study in life sciences. The primary emphasis of the biological sciences major program is to prepare students for successful transfer to baccalaureate (four-year) institutions. This course package for majors is modeled on the transfer requirements of San Diego State University and will satisfy requirements of most other California State University and University of California campuses. Students should check the catalog of the transfer school being considered for its specific requirements.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Aquatic Biologist*
 Biologist*
 Biotechnology Lab Technician*
 Cytotechnologist
 Ecologist*
 Environmental Engineer*
 Forensic Pathologist*
 Geneticist*
 Hydrologist*
 Laboratory Assistant
 Microbiologist*
 Nuclear Medical Technician+
 Physical Therapist*
 Sanitarian*

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate an understanding of Evolution by Natural Selection.
2. Analyze and interpret (evaluate) experimental data in order to determine relationships between biological processes.
3. Apply the Scientific Method to experimental design and data analysis.
4. Examine the homeostatic processes within living cells and organisms.
5. Demonstrate an understanding of modern systematic principles.
6. Predict how changes in biotic and abiotic components affect ecosystem dynamics.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Biology 215	Statistics for Life Sciences	3
Biology 230	Principles of Cellular, Molecular and Evolutionary Biology	4
Biology 240	Principles of Ecology, Evolution and Organismal Biology	5
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Chemistry 231	Organic Chemistry I	5
Mathematics 180	Analytical Geometry & Calculus	5
Physics 130	Fundamentals of Physics	4
Physics 131	Fundamentals of Physics	4
	Total Required	40
	Plus General Education and Elective Requirements	



Associate Degree
for Transfer™

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER (A.S.-T)

The Associate in Science in Business Administration for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 28-29 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Business Administration for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Associate in Science in Business Administration for Transfer (A.S.-T) degree is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. The Associate in Science in Business Administration for Transfer degree aligns with the CSU Bachelor of Science in Business Administration.

The Business Administration Department strives to impart the following **Program-level Student Learning Outcomes (PSLOs)** through the successful completion of the specific degree requirements in this program. Students will:

1. Demonstrate In-depth knowledge and understanding of fundamental business concepts.
2. Demonstrate the ability to identify, apply, and integrate functional business knowledge to solve problems in practical business situations involving accounting, law, and general business.
3. Demonstrate effective written and oral skills in these areas.
4. Demonstrate the ability to identify and resolve moral and ethical business issues.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Associate Degree Major Requirements

Required Core

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 121	Managerial Accounting	4
Business 125	Business Law: Legal Environment of Business	3
Economics 120*	Principles of Macroeconomics	3
Economics 121*	Principles of Microeconomics	3
	Total	17

List A:

Select ONE (1) of the following courses:

Math 160*	Elementary Statistics	4
Math 178*	Calculus for Business	4
	Total	4

List B:

Select TWO (2) of the following courses:

Any List A course not used above or		
Business 128	Business Communication	3
Computer Science	Principles of Information	
Information Systems 110	Systems	4
	Total	7-8
Units for the major		28-29
Units for CSU GE or		37-39
IGETC-CSU GE		
Total units required		60
for the degree		

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

BUSINESS ADMINISTRATION

The Business Administration curriculum is designed to give students who choose to work toward a bachelor's degree a well-balanced introduction to a professional career in business.

The program outlined below fulfills the lower division requirements for most majors in the School of Business Administration at San Diego State University and is typical of requirements at other four-year schools. For specific requirements, transfer students should consult the four-year college or university catalog.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Accountant*
Administrative Assistant
Advertising/Marketing*
Banking
Budget Analyst*
Business Publications
Claim Agent
Computer Operations
Controller*
Financial Manager*
Insurance Agent+
Lawyer*
*Bachelor's Degree or higher required.
+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate in-depth knowledge and understanding of fundamental business concepts.
2. Demonstrate the ability to identify, apply, and integrate functional business knowledge to solve problems in practical business situations involving accounting, law, and general business.
3. Demonstrate effective written and oral skills in these areas.
4. Demonstrate the ability to identify and resolve moral and ethical business issues.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 121	Managerial Accounting	4
Business 125	Business Law: Legal Environment of Business	3
Business 128	Business Communication	3
Computer Science Info. Systems 110	Principles of Information Systems	4
Economics 120	Principles of Macroeconomics	3
Economics 121	Principles of Microeconomics	3
Mathematics 160	Elementary Statistics	4
Mathematics 178	Calculus for Business, Social and Behavioral Sciences	4
	Total Required	32
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Business Administration. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

BUSINESS – GENERAL

The Business-General curriculum is designed to develop and foster those skills and understandings which can be utilized for employment in an increasingly challenging business environment. This major will provide the student with a broad preparation for a career in business. Business courses are included which will provide a solid background for future promotion in a chosen occupational area. This program is designed for students who do not plan to transfer to a four-year college or university.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Administrative Assistant
Bookkeeper
Budget Consultant*
Buyer
Conciliator+
Credit Analyst*
Employment Interviewer
Hospital Administrator*
Sales Agent+
Trust Officer*

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate In-depth knowledge and understanding of fundamental business concepts.
2. Demonstrate the ability to identify, apply, and integrate functional business knowledge to solve problems in practical business situations involving accounting, law, and general business.
3. Demonstrate effective written and oral skills in these areas.
4. Demonstrate the ability to identify and resolve moral and ethical business issues.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 109 or	Elementary Accounting	3
Business 120	Financial Accounting	(4)
Business 110	Introduction to Business	3
Business 115	Human Relations in Business	3
Business 125	Business Law: Legal Environment of Business	3
Business 128 or	Business Communication	(3)
Business Office Technology 110	Business English and Communications	3
Business 146	Marketing	3
Business 152	Business Mathematics	2
Business 195	Personal Finance	3
Business Office Technology 172	Microcomputer Software Packages	2
Economics 120	Principles of Macroeconomics	3
	Total Required	28-29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Business-General. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Certificate of Proficiency

The following Certificate of Proficiency is designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. This certificate will not appear on a student's transcript.

Insurance Services

The Insurance Services Certificate of Proficiency provides students with the skills necessary to gain employment in a variety of insurance office environments. Students may choose to begin a career or update existing skills. Students successfully completing the certificate will be qualified for mid-level positions at both the company and agency level.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
BUS 228	Legal Office Procedures I	3
BUS 233	Personal Insurance	3
BUS 234	Commercial Insurance	3
BUS 235	Delivering Insurance Services	3
	Total	12

BUSINESS OFFICE TECHNOLOGY

The Business Office Technology curriculum prepares students for employment and advancement in today's technology intensive office. The curriculum has been planned to accommodate a variety of needs and career paths. In addition to traditional office skills, students will acquire proficiency in using computers and current software to perform a variety of essential administrative functions. Graduates of the program will be prepared to work with management in all types of business environments.

Students wishing to earn a certificate or degree in Business Office Technology select an area of emphasis in either Administrative Assistant or Executive Assistant. The Administrative Assistant curriculum is designed for students who wish to acquire the skills necessary for entry to mid-level administrative support position. The Executive Assistant curriculum is designed for students who wish to prepare themselves for a mid to upper level administrative support position. The Executive Assistant curriculum also prepares students to take the Microsoft Office User Specialist (MOUS) certification examination. With additional training at a baccalaureate level college or university, students may prepare for a position in business education or business management. Note: If certain required proficiencies can be demonstrated, alternate courses may be substituted subject to department approval.

Students wishing to earn a certificate of achievement should complete all courses listed in their chosen area of emphasis. Students wishing to earn a degree should complete all courses listed in their chosen area of emphasis plus 30 units of general education courses and electives to total a minimum of sixty units.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Office Coordinator
Budget Manager
Event Coordinator
Quality Controller
Account Assistant
Human Resources Analyst
Legal Assistant
Word Processor
Desktop Publishing Specialist
Secretary: Executive, Medical, Educational, Financial, Government, Technical, Insurance, Small Business

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate knowledge, skills, and abilities relevant to BOT certificates / degree programs completed.
2. Demonstrate ethical and professional behavior.
3. Demonstrate appropriate human relations and workplace skills.

Associate Degree Major Requirements

Area of Emphasis

Administrative Assistant

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 102	Intermediate Keyboarding/ Document Processing	3
or		
Business Office Technology 102A	Intermediate Keyboarding/ Document Processing I	(1.5)
and		
Business Office Technology 102B	Intermediate Keyboarding/ Document Processing II	(1.5)
Business Office Technology 104	Filing and Records Management	1
Business Office Technology 106	Effective Job Search	1
Business Office Technology 107	Office Systems and Procedures	2
Business Office Technology 108	Using Calculators to Solve Business Problems	1
Business Office Technology 110	Business English and Communication	3
Business Office Technology 120 and 121 and 122	Comprehensive Word, Levels I and II and III	3
Business Office Technology 115	Essential Excel	1
or		
Business Office Technology 123 and 124 and 125	Comprehensive Excel, Levels I and II and III	(3)
Business Office Technology 116	Essential Access	1
or		
Business Office Technology 126 and 127 and 128	Comprehensive Access, Levels I and II and III	(3)

Business Office Technology 117 or	Essential PowerPoint	1
Business Office Technology 129 and 130 and 131	Comprehensive PowerPoint, Levels I and II and III	(3)
Business Office Technology 118	Integrated Office Projects	1
	Total	18-24

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Business Office Technology 223 or	Office Work Experience	1
Business Office Technology 224 or	Office Work Experience	(2)
Business Office Technology 225	Office Work Experience	(3)
	Total	1-3

Select a minimum of THREE (3) units from the following courses:

Subject & Number	Title	Units
Business Office Technology 103 A or B or C	Building Keyboarding Skills I or II or III	.5 - 1.5
Business Office Technology 105	Data Entry Skills	1
Business Office Technology 109	Elementary Accounting	3
Business Office Technology 132	Google Applications for Business	3
Business Office Technology 150	Using Microsoft Publisher	1
Business Office Technology 151	Using Microsoft Outlook	1
	Total	3
	Total Required	22-30
	Plus General Education and Elective Requirements	

Area of Emphasis Executive Assistant

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 110 or	Business English and Communication	3
Business 128	Business Communication	(3)
Business Office Technology 120	Comprehensive Word, Level I	1
Business Office Technology 121	Comprehensive Word, Level II	1
Business Office Technology 122	Comprehensive Word, Level III	1
Business Office Technology 123	Comprehensive Excel, Level I	1
Business Office Technology 124	Comprehensive Excel, Level II	1
Business Office Technology 125	Comprehensive Excel, Level III	1
Business Office Technology 126	Comprehensive Access, Level I	1

Business Office Technology 127	Comprehensive Access, Level II	1
Business Office Technology 128	Comprehensive Access, Level III	1
Business Office Technology 129	Comprehensive PowerPoint, Level I	1
Business Office Technology 130	Comprehensive PowerPoint, Level II	1
Business Office Technology 131	Comprehensive PowerPoint, Level III	1
Business Office Technology 151	Using Microsoft Outlook	1
Business Office Technology 201	Advanced Keyboarding/ Document Processing	3
Business Office Technology 203	Office Project Coordination	1
	Total	20

Select a minimum of THREE (3) units from the following courses:

Subject & Number	Title	Units
Business 110	Introduction to Business	3
Business 115	Human Relations in Business	3
Business 120	Financial Accounting	4
Business 125	Business Law	3
Business 250	Introduction to International Business	3
Business Office Technology 132	Google Applications for Business	3
	Total	3

Select a minimum of ONE (1) unit from the following courses:

Subject & Number	Title	Units
Business Office Technology 103B	Building Keyboarding Skills II	.5
Business Office Technology 103C	Building Keyboarding Skills III	.5
Business Office Technology 150	Using Microsoft Publisher	1
Business Office Technology 280 A-B-C	Preparing for Performance Examinations in Microsoft Word	.5
Business Office Technology 281 A-B-C	Preparing for Performance Examinations in Microsoft Excel	.5
Business Office Technology 282 A-B-C	Preparing for Performance Examinations in Microsoft Access	.5
Business Office Technology 283 A-B-C	Preparing for Performance Examinations in Microsoft PowerPoint	.5
	Total	1
	Total Required	24
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who completes the preceding major requirements for Administrative Assistant or Executive Assistant qualifies for a Certificate of Achievement in Business Office Technology. An official request must be filed with the Admissions and Record Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Certificate of Achievement

Business Information Worker

The Business Information Worker Certificate of Achievement is a job readiness pathway or certificate for office workers, developed in conjunction with local employers. Enrolled students are prepared in a broad range of entry-level office skills and applications, which promote success in a variety of office environments. Essential components of the curriculum include a solid foundation in Microsoft Windows and Office, as well as critical thinking, problem solving, and interpersonal skills.

Certificate of Achievement Requirements

Subject & Number	Title	Units
Business Office Technology 100	Basic Keyboarding	1
Business Office Technology 114	Essential Word	1
Business Office Technology 115	Essential Excel	1
Business Office Technology 119	Windows for the Information Worker	2
Business Office Technology 151	Using Microsoft Outlook	1
Business 115	Human Relations in Business	3
Business 128	Business Communications	3
Computer Science Information Systems 110	Principles of Information Systems	4
	Total	16

Any student who chooses to complete only the courses required for the above major qualifies for a certificate in Business Information Worker. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Certificate of Proficiency

The following Certificates of Proficiency are designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. These certificates will not appear on a student's transcript.

Note: All courses must be completed with a letter grade of "C" or higher.

Account Clerk

This certificate prepares a beginning student to work in a job that requires bookkeeping skills as well as an ability to provide account clerk support using accounting software. Many jobs at the entry level are available for someone who has training in these two areas.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 101 or Business Office Technology 101A	Keyboarding/ Document Processing	3
Business Office Technology 101B	Keyboarding/ Document Processing II	(1.5)
Business Office Technology 109	Elementary Accounting	3
Business Office Technology 176	Computerized Accounting Applications	2
Business Office Technology 179	Microcomputer Accounting Lab	1
	Total	9

Front Office/ Receptionist

The BOT Front Office/ Receptionist certificate would provide an entry-level employment opportunity for a completer that finishes the courses below. These skills are aimed at a student who is seeking a front office/receptionist related position in an office. This Certificate of Proficiency prepares a beginning student to work in a job that requires basic keyboarding skills, a basic knowledge of filing, and basic office procedures necessary for meeting and greeting the public in person, by telephone, and electronically.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject and Number	Title	Units
Business Office Technology 100 or Business Office Technology 103A	Basic Keyboarding	1
Business Office Technology 103B	Building Keyboarding Skill I (.5)	
Business Office Technology 104	Building Keyboarding Skill II (.5)	
Business Office Technology 107	Filing and Records Management	1
Business Office Technology 113	Office Systems and Procedures	2
Business Office Technology 151	Social Media Basics for the Job Seeker	.5
Business Office Technology 172	Using Microsoft Outlook Introduction to Microcomputer Application	1
	Total	7.5

Medical Office Assistant

The Medical Office Assistant Certificate of Proficiency provides students with the skills necessary to gain employment in a variety of medical office environments. Students may choose to begin a new career or update existing job skills. Students successfully completing the certificate will be qualified to seek employment as: medical office receptionists, assistants, medical clerical workers, hospital admitting clerks, medical insurance billers, medical insurance coders, and insurance claims processors.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 161	Medical Terminology	3
Business Office Technology 165	Medical Insurance Billing	4.5
Business Office Technology 167	Medical Coding	4
Business Office Technology 170	Medical Office Procedures	6
	Total	17.5

Office Assistant, Level I

This Certificate of Proficiency prepares a beginning student to work in a job that requires keyboarding skills, a basic knowledge of filing, and basic computer skills. It is designed for a student who has not had any computer training and lacks general office background and experience. Students who complete this program would qualify for positions as data entry clerks or entry level office clerical positions.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 101 or	Keyboarding/ Document Processing	3
Business Office Technology 101A and	Keyboarding/ Document Processing I (1.5)	
Business Office Technology 101B	Keyboarding/ Document Processing II (1.5)	
Business Office Technology 104	Filing and Records Management	1
Business Office Technology 105	Data Entry Skills	1
Business Office Technology 106	Effective Job Search	1
Business Office Technology 132	Google Applications for Business	3
	Total	9

Office Assistant, Level II

This Certificate of Proficiency is designed for the student who has completed the Office Assistant, Level I Certificate of Proficiency or has the equivalent in keyboarding and computer skills. It prepares students to advance in an office career ladder in which knowledge of Microsoft Office applications is necessary. It is a certificate that leads to the full college certificate for the Administrative Assistant certificate and degree.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 102 or	Intermediate Keyboarding/ Document Processing	3
Business Office Technology 102A and	Intermediate Keyboarding/ Document Processing I (1.5)	
Business Office Technology 102B	Intermediate Keyboarding/ Document Processing II (1.5)	
Business Office Technology 107	Office Systems and Procedures	2
Business Office Technology 114	Essential Word	1
Business Office Technology 115	Essential Excel	1
Business Office Technology 116	Essential Access	1
Business Office Technology 117	Essential PowerPoint	1
	Total	9

Office Professional

This Certificate of Proficiency is designed for the first level position in a broad spectrum of office environments. The program provides the basic skills necessary to be a productive employee. It provides the foundation for further study and advancement in the clerical field, which is one of the largest employment areas in our information processing society.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 100 or	Basic Keyboarding	1
Business Office Technology 101 or	Keyboarding/ Document Processing	(3)
Business Office Technology 101A and	Keyboarding/ Document Processing I (1.5)	
Business Office Technology 101B or	Keyboarding/ Document Processing II (1.5)	
Business Office Technology 102 or	Intermediate Keyboarding/ Document Processing	(3)
Business Office Technology 102A and	Intermediate Keyboarding/ Document Processing I (1.5)	
Business Office Technology 102B	Intermediate Keyboarding/ Document Processing II (1.5)	
Business Office Technology 106	Effective Job Search	1
Business Office Technology 107	Office Systems and Procedures	2

Business Office Technology 110 or	Business English and Communication	3
Business Office Technology 112	Business Office Correspondence and Office Professionalism (3)	
Business Office Technology 114	Essential Word	1
Business Office Technology 115	Essential Excel	1
	Total	9-11

Office Software Specialist, Level I

This certificate of Proficiency is designed for the student who is interested in working in an administrative support capacity and needs working knowledge of word processing, electronic spreadsheet, database, and presentation software. These courses may also be applied to the Office Assistant Level II Certificate of Proficiency.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 100	Basic Keyboarding	1
Business Office Technology 114 or	Essential Word	1
Business Office Technology 120 and	Comprehensive Word, Level I	(1)
Business Office Technology 121	Comprehensive Word, Level II	(1)
Business Office Technology 115 or	Essential Excel	1
Business Office Technology 123 and	Comprehensive Excel, Level I	(1)
Business Office Technology 124	Comprehensive Excel, Level II	(1)
Business Office Technology 116 or	Essential Access	1
Business Office Technology 126 and	Comprehensive Access, Level I	(1)
Business Office Technology 127	Comprehensive Access, Level II	(1)
Business Office Technology 117 or	Essential PowerPoint	1
Business Office Technology 129 and	Comprehensive PowerPoint, Level I	(1)
Business Office Technology 130	Comprehensive PowerPoint, Level II	(1)
	Total	5 - 9

Office Software Specialist, Level II

This Certificate of Proficiency is designed for the student who is interested in working in an administrative support capacity and needs thorough knowledge of word processing, electronic spreadsheet, database, and presentation software as well as software integration techniques. Students who complete this proficiency certificate may continue taking courses and earn the Executive Assistant Certificate of Proficiency.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 100	Basic Keyboarding	1
Business Office Technology 118	Integrated Office Projects	1
Business Office Technology 120 or	Comprehensive Word, Level I	1
Business Office Technology 114	Essential Word	(1)
Business Office Technology 121	Comprehensive Word, Level II	1
Business Office Technology 122	Comprehensive Word, Level III	1
Business Office Technology 123 or	Comprehensive Excel, Level I	1
Business Office Technology 115	Essential Excel	(1)
Business Office Technology 124	Comprehensive Excel, Level II	1
Business Office Technology 125	Comprehensive Excel, Level III	1
Business Office Technology 126 or	Comprehensive Access, Level I	1
Business Office Technology 116	Essential Access	(1)
Business Office Technology 127	Comprehensive Access, Level II	1
Business Office Technology 129 or	Comprehensive PowerPoint, Level I	1
Business Office Technology 117	Essential PowerPoint	(1)
Business Office Technology 130	Comprehensive PowerPoint, Level II	1
	Total	12

Virtual Office Assistant

This Certificate of Proficiency prepares students to create and run a virtual office business. More specifically, the certificate prepares a student to act as an entrepreneur specializing in administrative services provided to clients in a virtual environment.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business Office Technology 100	Basic Keyboarding	1
Business Office Technology 103A	Building Keyboarding Skill I	.5
Business Office Technology 103B	Building Keyboarding Skill II	.5
Business Office Technology 111	Virtual Assistant	2
Business Office Technology 115	Essential Excel	1
Business Office Technology 120	Comprehensive Word, Level I	1
Business Office Technology 121	Comprehensive Word, Level II	1
Business Office Technology 150	Using Microsoft Publisher	1
Business 141	Entrepreneurship: Managing a New Business	3
Business 146	Marketing	3
	Total	14

CARDIOVASCULAR TECHNOLOGY (CVTE)

See page 15 for special admission procedures and criteria.

In addition to the college application, a special application for Cardiovascular Technology (CVTE) is required. Applications and instructions are available at the CVTE website: <http://www.grossmont.edu/cvt/>

The Cardiovascular Technology Program at Grossmont College is a two-year course of study leading to an Associate in Science Degree. Graduates of the program enter the health care profession as Cardiovascular Technologists.

Cardiovascular Technology students are educated in the theory and clinical application of diagnostic tests used in the diagnosis and treatment of cardiovascular disease.

The first year of the program is composed of a core curriculum of courses which encompass physics, mathematics, cardiovascular anatomy, physiology and pathophysiology, medical instrumentation, and the application of clinical cardiovascular techniques.

After the first semester, students select one of three subspecialties for concentrated study, which includes lecture, laboratory and clinical experience courses.

Subspecialties include:

Invasive Cardiovascular Technology

Invasive Cardiovascular Technologists work in cardiac catheterization laboratories where they assist the invasive cardiologist in performing diagnostic and interventional procedures such as cardiac catheterization, balloon angioplasty, electrocardiographic monitoring, and stent and pacemaker placement. The technologist assists the physician during the catheterization, providing the appropriate instruments, operates various pieces of electronic medical equipment and calculates clinical information for interpretation by the physician.

Adult Echocardiography

Adult Echocardiographers perform cardiac ultrasound studies and specialized electrocardiographic procedures. The information obtained from these clinical studies is used by the cardiologist to evaluate patients for cardiovascular disease and designing comprehensive treatment plans. These technologists perform the studies, operate various electronic instruments, prepare preliminary reports and calculate clinical information for interpretation by the physician.

Vascular Technology

Vascular Technologists perform ultrasound and other diagnostic studies to evaluate arterial and venous obstructions, malformations, or diseases which may put the patient at risk for a stroke, or for loss of circulation in their extremities. The information obtained from these clinical studies is used by vascular surgeons and neurologists to establish a diagnosis, assess the severity of existing disease, and to design comprehensive treatment plans. The vascular technologist performs the studies, operates various medical instruments, prepares preliminary reports and calculates clinical information for interpretation by the physician.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Coronary Interventional Specialist

Cath Lab Specialist

Echocardiographer

Echosonographer

Vascular Technologist

Peripheral Vascular Specialist

Department Lead, Supervisor, or Manager

Equipment Sales Representative

Pacemaker Representative

Surgical and Endovascular Equipment Sales

With additional training, Nursing, Physicians Assistant or Surgical Assistant

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree requirements in this program. Students will:

1. All graduates will develop and maintain a professional attitude as a Cardiovascular Technologist, striving for excellence in skills and knowledge, sharing knowledge and skills with others, caring for self, caring for and supporting patients, and protecting patients' rights, privacy and dignity. Continue life-long learning habits and professional growth.
2. Students of INVASIVE CARDIOLOGY will apply principles of cardiovascular anatomy, physiology, pathophysiology and medical instrumentation to perform and interpret diagnostic and interventional studies in the cardiac catheterization laboratory.
3. Students of INVASIVE CARDIOLOGY will set up, calibrate and operate diagnostic and interventional instrumentation in the Cardiac Catheterization Laboratory: hemodynamic monitoring systems, electrocardiographs, contrast dye injectors, oximeters, cardiac pacemakers, cardiac output computers and electrophysiology simulators.
4. Students of ADULT ECHOCARDIOGRAPHY will apply principles of cardiovascular anatomy, physiology, pathophysiology and medical instrumentation to perform, analyze and interpret diagnostic studies: M-Mode, Two-Dimensional, Doppler and Transesophageal cardiac ultrasound studies. Students of ADULT ECHOCARDIOGRAPHY will perform diagnostic cardiac ultrasound studies using standard and Doppler ultrasound instruments equipped with surface and transesophageal transducers. Calculate prescribed hemodynamic function indices for interpretation by the physician.
6. Students of VASCULAR TECHNOLOGY will apply principles of vascular anatomy, physiology, pathophysiology and medical instrumentation to perform and interpret diagnostic studies: cerebrovascular, peripheral vascular and abdominal vascular.
7. Students of VASCULAR TECHNOLOGY will perform vascular diagnostic studies using duplex ultrasound, continuous-wave Doppler, arterial and venous plethysmography and photoplethysmography, for testing of cerebrovascular, peripheral vascular and abdominal vascular systems.

General Education Requirements for Cardiovascular Technology Majors

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

Competency Requirement

- A. Competency in reading, writing, expression shown by achieving a "C" grade or higher or "Pass" in courses listed under Area A, Section 1 – Written Communication.
- B. Competency in Mathematics shown by either
 1. Earning a grade of "C" or better or "Pass" in Math 103 or a higher numbered mathematics course or
 2. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)

Area A - Language and Rationality

Three courses (a minimum of nine units) are required in written communication, oral communication, and analytical thinking. At least ONE course must be taken from EACH of the following three sections:

1. **Written Communication**
Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.
English 120, 124
2. **Oral Communication**
Communication 120, 122, 130
3. **Analytical Thinking**
Competency in Mathematics shown by either
 - a. Earning a grade of "C" or better or "Pass" in Math 103 or a higher numbered mathematics course or*
 - b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)*

Anthropology 215
Biology 215
Economics 215
Geography 104
Mathematics 103, 110, 120, 125, 126, 150, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285
Philosophy 125, 130
Physical Science 120
Psychology 215
Sociology 215

Area B - Natural Sciences

Two natural science courses (a minimum of seven units) are required. One course must contain a laboratory.

Courses with an asterisk are laboratory only. Courses not containing a laboratory component are underlined.

Anthropology 130, 131*
Astronomy 110, 112*, 120
Biology 105, 110, 112, 114, 118, 120, 140, 141, 141L*, 144, 145, 152, 230, 240
Chemistry 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241, 241L*, 242, 242*
Geography 120, 121*, 140
Geology 104, 110, 111*, 121, 210, 220, 230
Oceanography 112, 113*
Physical Science 100, 110, 111*
Physics 110, 130, 131, 140, 240, 241
Science 110

Area C - Humanities

One humanities course (a minimum of three units) is required.

American Sign Language 120, 121, 140, 220, 221, 250
Arabic 120, 121, 122, 123, 148, 220, 221, 250, 251
Art 100, 120, 124, 126, 129, 140, 141, 142, 143, 145, 146, 147, 171, 189
Chinese 120, 121, 220, 221, 250, 251
Communication 135, 137, 144, 145
Cross-Cultural Studies 122, 123, 126, 127, 134, 144, 147, 149, 152, 236, 237, 238
Dance 110, 120
English 112, 118, 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 241, 242, 275, 276, 277
French 120, 121, 152, 220, 221, 250, 251
German 120, 121, 220, 221, 250, 251
History 100, 101, 103, 105, 106, 113, 126, 135, 140, 136, 137, 148
Humanities 110, 120, 125, 130, 135, 140, 160, 170
Italian 120, 121, 220, 221, 250, 251
Japanese 120, 121, 149, 220, 221, 250, 251

Media Communications 111, 189
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155
 Photography 150, 154
 Religious Studies 120, 130, 140, 150, 170
 Russian 120, 121, 220, 221, 250, 251
 Spanish 120, 121, 122, 123, 141, 145, 220, 221, 250, 251
 Theatre Arts 101, 110, 130, 143, 144, 189

Area D - Social Sciences

One social science course (a minimum of three units) is required.

Administration of Justice 110
 Anthropology 120, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 128
 Cross-Cultural Studies 114, 115, 116, 118, 119, 124, 125, 128, 130, 131, 132, 133, 135, 145, 153, 154, 155, 180, 181
 Economics 110, 120, 121
 Family Studies 115, 120
 Geography 100, 101, 106, 130, 170
 Health Education 120, 155, 158, 159, 201
 Health Science 110
 History 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181
 Media Communications 110
 Political Science 120, 121, 124, 130, 140, 150, 160
 Psychology 120, 125, 132, 134, 138, 140, 170, 220
 Sociology 114, 120, 125, 130, 138, 140

Area E - Fitness/Wellness

Two courses involving physical exercise and/or dance are required. They can be chosen from the exercise science and/or dance courses listed below:

Dance 068, 071A, 071B, 072A, 072B, 074A, 074B, 078 A, 078B, 080A, 080B, 080C, 080D, 081A, 081B, 081C, 081D, 082A, 082B, 084A, 084B, 084C, 084D, 088A, 088B, 088C, 088D, 094A, 094B, 094C, 094D, 099A, 099B, 099C, 116, 118A, 118B, 118C, 118D

Exercise Science 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 027, 028A, 028B, 028C, 029, 030, 035, 037A, 037B, 037C, 039, 040A, 040B, 040C, 041, 043A, 043B, 043C, 044A, 044B, 044C, 060A, 060B, 060C, 076A, 076B, 076C, 121, 125A, 125B, 125C, 130A, 130B, 130C, 155A, 155B, 155C, 170A, 170B, 170C, 171A, 171B, 171C, 172A, 172B, 172C, 175A, 175B, 175C, 176A, 176B, 176C, 180, 185A, 185B, 185C

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Core Curriculum

All students complete the following core courses in the first year of the program:

Subject & Number	Title	Units
Cardiovascular Technology 100	Physical Principles of Medicine I	2
Cardiovascular Technology 101	Cardiovascular Physiology I	4
Cardiovascular Technology 102	Medical Instrumentation I	3
Cardiovascular Technology 103	Laboratory Practicum and Proficiency Testing I	2
Cardiovascular Technology 111	Cardiovascular Physiology II	4
Cardiovascular Technology 113	Introduction to Clinical Practicum II	1
Cardiovascular Technology 114	Cardiovascular Pharmacology	2
	Total	18

Area of Emphasis Invasive

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cardiovascular Technology 109	X-Ray Physics and Radiation Safety	3
Cardiovascular Technology 116	Introduction to Invasive Cardiology	4
Cardiovascular Technology 122	Clinical Practicum I: Invasive Cardiology	2
Cardiovascular Technology 222	Diagnostic Procedures, Invasive Cardiology	5
Cardiovascular Technology 232	Clinical Practicum II: Invasive Cardiology	5
Cardiovascular Technology 252	Interventional Procedures II: Invasive Cardiology	5
Cardiovascular Technology 262	Clinical Practicum III: Invasive Cardiology	5
	Total	29
	Total Required	47
	Plus General Education and Elective Requirements	

Area of Emphasis**Adult Echocardiography**

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cardiovascular Technology 110	Physical Principles of Medicine II	3
Cardiovascular Technology 115	Introduction to Adult Echocardiography	4
Cardiovascular Technology 121	Clinical Practicum I: Adult Echocardiography	2
Cardiovascular Technology 221	Diagnostic Procedures I: Adult Echocardiography	5
Cardiovascular Technology 231	Clinical Practicum II: Adult Echocardiography	5
Cardiovascular Technology 251	Diagnostic Procedures II: Adult Echocardiography	5
Cardiovascular Technology 261	Clinical Practicum III: Adult Echocardiography	5
	Total	29
	Total Required	47
	Plus General Education and Elective Requirements	

Area of Emphasis**Vascular Technology**

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cardiovascular Technology 110	Physical Principles of Medicine II	3
Cardiovascular Technology 117	Introduction to Vascular Technology	4
Cardiovascular Technology 123	Clinical Practicum I: Vascular Technology	2
Cardiovascular Technology 223	Diagnostic Procedures I: Vascular Technology	5
Cardiovascular Technology 233	Clinical Practicum II: Vascular Technology	5
Cardiovascular Technology 253	Diagnostic Procedures II: Vascular Technology	5
Cardiovascular Technology 263	Clinical Practicum III: Vascular Technology	5
	Total	29
	Total Required	47
	Plus General Education and Elective Requirements	

Telemetry / ECG Technician Certificate of Achievement

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

The Telemetry/ECG Technician Certificate of Achievement is awarded to students who complete both the ECG Technician and Telemetry Technician track courses. Completion of both topics will prepare students with the skills necessary to gain employment as an ECG Technician, Exercise Treadmill Technician, Holter Monitor Technician, Pacemaker Technician, or Telemetry Technician. Students successfully completing the certificate are employable to hospitals and healthcare facilities throughout the country and are encouraged to sit for their national registry exams through Cardiovascular Credentialing International.

All classes must be completed with a "C" grade or higher.

Subject & Number	Title	Units
Cardiovascular Technology 104	Electrocardiographic Theory	3
Cardiovascular Technology 105	Electrocardiographic Technique	2
Cardiovascular Technology 106	Advanced Electrocardiographic Studies	5
Cardiovascular Technology 108	Advanced Cardiac Monitoring	2
	Total	12

CHEMISTRY

The chemistry major prepares students to transfer to four-year institutions for continued study in the field of chemistry. The program outlined below fulfills the lower division requirements recommended by the American Chemical Society and is typical of requirements at four-year transfer institutions. Students should consult the catalog of the transfer institution for specific requirements. Assistance in planning a course of study is available at the Counseling Center or from the Department of Chemistry faculty. The department recommends that students take one year of Russian or German (or high school equivalency) for credit under Humanities Area C, Section 2 of the associate degree general education requirements.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Analytical Chemist*
 Biochemist*
 Biotechnologist*
 Chemistry Teacher*
 Dentist*
 Environmental Technician+
 Forensic Specialist*
 Industrial Health Engineer*
 Laboratory Technician
 Pharmacist*
 Physician*
 Research Chemist*
 Safety Manager
 Sanitarian+
 Veterinarian*
 Water-quality Analyst

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Analyze and interpret (evaluate) experimental data in order to identify trends and communicate results in a laboratory report.
2. Predict physical and chemical properties and changes of matter.
3. Analyze relationships between equilibrium, kinetics and the flow of energy.
4. Employ a microscopic view of matter to explain macroscopic phenomena.
5. Identify substances from qualitative analyses and spectroscopic methods.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Chemistry 231 or Chemistry 241 and Chemistry 241L	Organic Chemistry I Lecture (3)	5
Chemistry 232 or Chemistry 242 and Chemistry 242L	Organic Chemistry I Laboratory (2)	5
	Organic Chemistry II Lecture (3)	
	Organic Chemistry II Laboratory (2)	
	Total	20

Select SIXTEEN (16) units from the following courses:

Subject & Number	Title	Units
Mathematics 180	Analytic Geometry & Calculus I	5
Mathematics 280	Analytic Geometry & Calculus II	4
Mathematics 281	Multivariable Calculus	4
Mathematics 285	Differential Equations	3
Physics 140	Mechanics of Solids	4
Physics 240	Electricity, Magnetism & Heat	4
Physics 241	Light, Wave Motion and Modern Physics	4
	Total	16
	Total Required	36
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in Chemistry. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

CHILD DEVELOPMENT

These courses are also appropriate for family child care providers, parents, administrators, health care professionals, and others working with children. Courses are designed to partially meet lower division course preparation for students planning a bachelor's degree in Child Development.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Adoption Counselor*
 Child Psychologist*
 Childcare Specialist
 Day Camp Counselor*
 Development Specialist*
 Family Child Care Provider
 Infant/Toddler Teacher+
 Parent Educator*
 Planned Parenthood Worker
 School Age Child Care Teacher/Site Supervisor
 Preschool Teacher/Director+
 Recreation Specialist*

Social Service Specialist*

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

- Analyze and apply principles of scientific research to the study of human development; integrate and apply current theory and research to the observation, documentation and unbiased analysis of human behaviors.
- Formulate practical applications of theory and research to developmentally appropriate practice in varying contexts: personal, classroom, agency and community.
- Critically examine societal and personal attitudes, beliefs, values and assumptions towards the diverse contexts of child and human development including: ethnicity, gender, language, family structure, socio-economic status, age and ability.
- Compare and examine differing social, economic, political, historical, cultural and family contexts and their effect on human development; demonstrate effective advocacy techniques related to current social issues pertaining to children, adults, and families.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Child Development Master Teacher

Subject & Number	Title	Units
Child Development 106	Practicum: Beginning Observation and Experience	1
Child Development 121	The Arts and Creativity for Young Children	3
Child Development 123	Principles and Practices of Programs and Curriculum For Young Children	3
Child Development 125	Child Growth and Development	3
Child Development 127	Science and Mathematics for Child Development	3
Child Development 129	Language and Literature for Child Development	3
Child Development 130	Curriculum: Design and Implementation	3
Child Development 131	Child, Family and Community	3
Child Development 132	Observation and Assessment: Field Experience Seminar	3
Child Development 133	Practicum - Field Experience: Student Teaching	2
Child Development 134	Health, Safety & Nutrition of Young Children	3
Child Development 141	Working with Children with Special Needs	3
Child Development/ Cross Cultural Studies 153	Teaching in a Diverse Society	3
Child Development/ Family Studies 115 or Child Development 136	Changing American Family	*3
	Adult Supervision	**3
	Total Required	39
	Plus General Education and Elective Requirements	

*CD/FS 115 is required for transfer to SDSU

**CD 136 is required for the Master Teacher Permit through California Teacher Credentialing

Certificate of Achievement

Any student who completes the Child Development major requirement for Master Teacher qualifies for a Certificate of Achievement in Child Development. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses in the certificate must be completed with a letter grade of "C" or higher.

California Commission on Teacher Credentialing Child Development Permit

Any student who completes the above requirements and 16 units of GE from English/Communication, Humanities, Social Sciences and Math or Science may apply for a permit from the California Commission on Teacher Credentialing (CTC). There is an added work experience component. For full requirements go to www.ctc.ca.gov to contact the Child Development Department.

Child Development Site Supervisor

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Child Development 106	Practicum: Beginning Observation and Experience	1
Child Development 121	The Arts and Creativity for Young Children	3
Child Development 123	Principles and Practices of Programs and Curriculum for Young Children	3
Child Development 125	Child Growth and Development	3
Child Development 127	Science and Mathematics for Child Development	3
Child Development 129	Language and Literature for Child Development	3
Child Development 130	Curriculum: Design and Implementation	3
Child Development 131	Child, Family and Community	3
Child Development 132	Observation and Assessment: Field Experience Seminar	3
Child Development 133	Practicum - Field Experience: Student Teaching	2
Child Development 134	Health, Safety & Nutrition of Young Children	3
Child Development 136	Adult Supervision	**3
Child Development 137	Administration of Child Development Programs I	3
Child Development 138	Administration of Child Development Programs II	3
Child Development 141	Working with Children with Special Needs	3
Child Development 153	Teaching in a Diverse Society	3
Child Development/ Family Studies 115	Changing American Family	*3
	Total Required	48
	Plus General Education and Elective Requirements	

*CD/FS 115 is required for transfer to SDSU

**CD 136 is required for the Master Teacher Permit through California Teacher Credentialing

Certificate of Achievement

Any student who completes the Child Development major requirements for Master Teacher or Site Supervisor qualifies for a Certificate of Achievement in Child Development. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses in the certificate must be completed with a letter grade of "C" or higher.

California Commission on Teacher Credentialing Child Development Permit

Any student who completes the above requirements and 16 units of GE from English/Communication, Humanities, Social Sciences and Math or Science may apply for a permit from the California Commission on Teacher Credentialing (CTC). There is an added work experience component. For full requirements go to www.ctc.ca.gov to contact the Child Development Department.

Certificate of Proficiency

The following Certificate of Proficiency is designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. These certificates will not appear on a student's transcript.

Note: All courses must be completed with a letter grade of "C" or higher.

Associate Teacher Certificate of Proficiency

The Associate Teacher is an entry level position in the child care and early education field. This certificate meets the educational requirements for a teacher for the State of California, Community Care Licensing and the California Commission on Teacher Credentialing Associate Teacher level Permit. The course includes approximately 15 days of the 50 day experience requirements for these positions.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Child Development 106	Practicum: Beginning Observation and Experience	1
Child Development 123	Principles and Practices of Programs and Curriculum for Young Children	3
Child Development 125	Child Growth and Development	3
Child Development 131	Child, Family and Community	3
Total		10

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Child Development 121	The Arts and Creativity for Young Children	3
Child Development 127	Science and Mathematics for Child Development	3
Child Development 129	Language and Literature for Child Development	3
Child Development 143	Responsive Planning for Infant/Toddler Care	3
Total		3
Total Required		13

Any student who completes this Certificate of Proficiency and 50 days of experience in an early childhood program may apply to the California Teachers Credentialing Office for an Associate Teacher Permit. For further information contact the Child Development department and www.ctc.ca.gov.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER (A.A.-T)

The Associate in Arts in Communication Studies for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Communication Studies for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Communication Studies degree is designed to provide the student with a broad base of communication classes that will provide training for entry into occupations in which verbal skills are important.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Exhibit the ability to listen actively.
2. Critically evaluate oral and written messages in order to assess credibility and validity.
3. Practice perspective-taking so as to display other-centered communication within and across diverse communities.
4. Appraise the strengths, limitations, and consequences of the use of various communication methods.
5. Demonstrate confident and competent use of language and nonverbal communication.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Communication 122*	Public Speaking	3

List A

Select TWO (2) of the following courses:	
Communication 120*	Interpersonal Communication
Communication 137*	Critical Thinking in Group Communication
Communication 145*	Argumentation
Total	6

List B

Select TWO (2) of the following courses:	
Any List A course not used above or	
Communication 123*	Advanced Public Speaking
Communication 124*	Intercultural Communication
Communication 135	Oral Interpretation of Literature
Communication 240	Speech and Debate Competition III
Total	6

List C

Select ONE (1) of the following courses:	
Any List A or List B course not used above or	
Communication 128*	Global Communication
Communication 136*	Readers Theatre
Communication 144*	Communication Studies: Race and Ethnicity
Total	3
Units for the major	18
Units for CSU GE or IGETC-CSU GE	37-39
Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

COMMUNICATION

(Formerly Speech Communications)

This program is designed to provide the student with a broad base of communication classes that will provide training for entry into occupations in which verbal skills are important. Major requirements for the four-year degree in Communication vary from institution to institution. Students should consult the catalog of the transfer institution for specific requirements.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising Assistant

Announcer

Arts Administrator*

College Professor*

Journalist*

Lawyer*

Lobbyist*

Narrator

Politician

Proofreader

Public Relations Assistant

Researcher*

Sales Manager

Teacher/Instructor*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Exhibit the ability to listen actively.
2. Critically evaluate oral and written messages in order to assess credibility and validity.
3. Practice perspective-taking so as to display other-centered communication within and across diverse communities.
4. Appraise the strengths, limitations and consequences of the use of the various communication methods.
5. Demonstrate confident and competent use of language and nonverbal communication.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Communication 120	Interpersonal Communication	3
Communication 122	Public Speaking	3
Communication 137	Critical Thinking in Group Communication	3
Communication 145	Argumentation	3
	Total	12

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Communication 124	Intercultural Communication	3
Communication 128	Global Communication	3
Communication 144/ Cross Cultural Studies 144	Communication Studies: Race and Ethnicity	3
Media		
Communication 110	Mass Media and Society	3
	Total	6

Select THREE (3) units of the following courses:

Subject & Number	Title	Units
Communication 123	Advanced Public Speaking	3
Communication 135	Oral Interpretation of Literature	3
Communication 136	Readers Theatre	3
Communication 238	Speech and Debate Competition I	1
Communication 239	Speech and Debate Competition II	2
Communication 240	Speech and Debate Competition III	3
Communication 241	Speech and Debate Competition IV	3
	Total	3
	Total Required	21
	Plus General Education and Elective Requirements	

All courses are not offered each semester. Check the class schedule for current offerings.

COMPUTER SCIENCE INFORMATION SYSTEMS

The Computer Science Information Systems curricula provides a foundation in computing and information systems serving the diverse goals of the Grossmont community: employment in various phases of the computing industry, transfer to a baccalaureate institution for continued study in the computer and information sciences, training in selected topics for application in other professions or for personal enrichment, and advanced study for returning computing professionals. Throughout, emphasis is placed on blending fundamental theory and technique with practical applications in business, scientific and academic computing. A guiding principle is the use of intense hands-on instruction with state-of-the-art computer technology.

Five related but distinct areas of emphasis designed to provide corresponding job entry points are available as two-year curricula: Computer Programming, Local-Area Network (LAN) Support Specialist and Web Design. Completion of the Computer Science Information Systems core courses or their equivalent plus any one area of emphasis satisfies the major requirements for the Associate Degree.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Computer Support Specialist
Communications Technician
Computer Maintenance Technician
Computer Systems Analysts*
Database Administrators*
Information Specialist*
LAN (Local Area Network) Administrator
Network Systems & Data Communication Analysts
Office Administrators
Programmer
Software Engineers*
Software Technician
Systems Analyst*
Technical Support Representative
*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs)

below is an outcome that students will achieve after completing specific degree/certificate requirements in this program.

Students will perform computer end user support including identifying and implementing solutions to user requests.

Equivalent Course List

The following Grossmont and Cuyamaca College courses are considered similar enough to be treated as equivalent. No Modification of Major forms will be required for the departments to accept these courses from Cuyamaca College.

Grossmont Course

CSIS 110	CIS 110
CSIS 112	CIS 190
CSIS 113	CIS 191
CSIS 114	CIS 120
CSIS 119	CS 119
CSIS 132	CIS 211
CSIS 133	CIS 213
CSIS 135	CIS 215
CSIS 172	CIS 105
CSIS 180	CIS 140
CSIS 213	CIS 291
CSIS 276	CIS 240
CSIS 281	CIS 267
CSIS 282	CIS 267
CSIS 293	CS 182
CSIS 294	CS 282
CSIS 296	CS 181
CSIS 297	CS 281

Similar Cuyamaca Course**Computer Science****Info. Systems 294**

or

Computer Science**Info. Systems 296**

and

Computer Science**Info. Systems 297****Intermediate Java****Programming and****Fundamental Data****Structures**

(4)

Introduction to C++**Programming**

(4)

Intermediate C++**Programming**

(4)

Total

16

Select ONE (1) of the following courses (the course cannot be part of the prior sequence):

Subject & Number**Computer Science****Info. Systems 165****Computer Science****Info. Systems 220****Computer Science****Info. Systems 270****Computer Science****Info. Systems 276****Computer Science****Info. Systems 288****Computer Science****Info. Systems 290****Computer Science****Info. Systems 293****Computer Science****Info. Systems 295****Computer Science****Info. Systems 296****Units****Assembly Language and****Machine Architecture**

4

Software Engineering I**Advanced Computer****Programming**

3

Introduction to SQL**Introduction to Visual****Basic Programming**

4

Introduction to C#**Programming**

4

Introduction to Java**Programming**

4

Android Application**Development with Java**

4

Introduction to C++**Programming**

4

Total

3-4

Total Required

29-31

Plus General Education and

Elective Requirements

Associate Degree Major Requirements**Area of Emphasis****Computer Programming**

An area of emphasis intended for the two-year vocational student who plans to gain entry level employment as a programmer for systems. Students who complete the sequence successfully are able to write or maintain code for program modules from design documents and specifications prepared by senior programmers or analysts.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number**Title****Units**

Computer Science		
Info. Systems 112	Windows Operating Systems	3
or		
Computer Science		
Info. Systems 113	Introduction to Linux	(3)
Computer Science		
Info. Systems 119	Introduction to Computer	
	Programming	3
Computer Science		
Info. Systems 280	Job Search Assistance and	
	Retention	2
Computer Science		
Info. Systems 281	Directed Work Experience	2
or		
Computer Science		
Info. Systems 282	Directed Work Experience	(3)
	Total	10-11

Select TWO (2) of the following sequences:

Subject & Number**Title****Units**

Computer Science		
Info. Systems 288	Introduction to	
and	Visual Basic Programming	(4)
Computer Science		
Info. Systems 289	Intermediate Visual	
	Basic Programming	(4)
or		
Computer Science		
Info. Systems 290	Introduction to C#	
and	Programming	(4)
Computer Science		
Info. Systems 291	Intermediate C#	
or	Programming	(4)
Computer Science		
Info. Systems 293	Introduction to Java	
and	Programming	(4)

Area of Emphasis**Local Area Network (LAN) Support****Specialist**

An area of emphasis leading to an entry level position which specializes in the planning, installation, development, operation and maintenance of local area networks (LANs). Students completing this sequence will be expected to assist LAN managers in large and medium-sized organizations. Advanced students may be assigned as the sole LAN support person in a smaller firm.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number**Title****Units**

Computer Science	Principles of Information	
Info. Systems 110	Systems	4
Computer Science		
Info. Systems 112	Windows Operating System	3
Computer Science		
Info. Systems 113	Introduction to Linux	3
Computer Science		
Info. Systems 114	Small Computer Systems	3
Computer Science		
Info. Systems 119	Introduction to Computer	
	Programming	3
Computer Science		
Info. Systems 140	Introduction to Local Area	
	Network (LAN) Management	4
Computer Science		
Info. Systems 142	Introduction to Networking	2
Computer Science		
Info. Systems 143	Local Area Networks	2

Computer Science	Wide Area Networks	2
Info. Systems 144		
Computer Science	Introduction to TCP/IP	2
Info. Systems 145		
Computer Science	Job Search Assistance	2
Info. Systems 280	and Retention	
Computer Science	Directed Work Experience	2
Info. Systems 281		
or		
Computer Science	Directed Work Experience	(3)
Info. Systems 282		
	Total	32-33

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 128	Business Communication	3
Computer Science		
Info. Systems 146	Network Security	3
Computer Science	Social Media and Internet	
Info. Systems 147	Marketing	3
Computer Science	Introduction to SQL	3
Info. Systems 276		
	Total	3-4
	Total Required	35-36
	Plus General Education and Elective Requirements	

Area of Emphasis

Web Design

An area of emphasis in preparing students for entry-level positions creating websites. The curriculum provides the student with practical experience using state of the art software and hardware typically found in the field of professional web design.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Computer Science	Principles of Information Systems	
Info. Systems 110		4
or		
Computer Science	Introduction to Computing	
Info. Systems 105	(3)	
Computer Science	Windows Operating Systems	
Info. Systems 112		3
Computer Science	Introduction to Web Development	
Info. Systems 132		3
	Total	9-10

Select THREE (3) of the following courses:

Subject & Number	Title	Units
Computer Science	Intermediate Web Development	3
Info. Systems 133		
Computer Science	JavaScript Programming	3
Info. Systems 135		
Computer Science	Social Media and Internet Marketing	3
Info. Systems 147		
Computer Science	Introduction to Photoshop	3
Info. Systems 151		
or		
Computer Science	Introduction to Java Programming	4
Info. Systems 293		
	Total	9-10
	Total Required	18-20
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements for one of the areas of emphasis in Computer Science Information Systems qualifies for a Certificate of Achievement in:

- Computer Science Information Systems – Computer Programming
- Computer Science Information Systems – Local Area Network (LAN) Support Specialist
- Computer Science Information Systems – Web Design

An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Certificate of Proficiency

Certificates of Proficiency are designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. This certificate will not appear on a student's transcript.

Information Technology Technician

This certificate prepares a student with the basic skills to enter a position in industry as an Information Technology Technician. The skills to be gained with this certificate include familiarity with the two most popular desktop computer operating systems as well as with hands-on experience with the associated hardware.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Computer Science		
Info. Systems 112	Windows Operating System	3
And any TWO (2) of the following:		
Computer Science		
Info. Systems 113	Introduction to Linux	3
Computer Science		
Info. Systems 114	Small Computer Systems	3
Computer Science		
Info. Systems 142	Introduction to Networking	2
	Total	8-9

CROSS-CULTURAL STUDIES

The Cross-Cultural Studies major prepares students to transfer to four-year institutions for continued study in African American Studies, Mexican American/Latino Studies, Asian American Studies, American Indian Studies, or Women's Studies. The program outlined below partially fulfills lower division requirements in those areas. For special requirements, transfer students should consult the catalog of the transfer institution for specific requirements. Cross-cultural classes in general are helpful for further studies in such diverse fields as history, sociology, ethnic studies, third world studies and political science.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Curator*

Diplomat Corps*

Foreign Officer*

Import/Export Agent+

Lawyer*
 Law Enforcement*
 Museum Technician
 Sociologist*
 Social Worker*
 Teacher*
 Travel Agent
 Writer

*Bachelor's Degree or higher required.
 +Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Define and appreciate cultural diversity.
2. Contrast past forms of history with the history of inclusiveness.
3. Analyze the sources/causes of inequality and discrimination.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cross-Cultural Studies 114/ Sociology 114	Introduction to the Sociology of Minority Group Relations	3
Cross-Cultural Studies 115	Cross-Cultural Competence	3
	Total	6

Select SIX (6) units consisting of ONE (1) complete sequence from the following:

Subject & Number	Title	Units
Cross-Cultural Studies 118/ History 118	U.S. History: Chicano/ Chicana Perspectives I	3
and		
Cross-Cultural Studies 119/ History 119	U.S. History: Chicano/ Chicana Perspectives II	3
or		
Cross-Cultural Studies 130/ History 130	U.S. History and Cultures: Native American Perspectives I	(3)
and		
Cross-Cultural Studies 131/ History 131	U.S. History and Cultures: Native American Perspectives II	(3)
or		
Cross-Cultural Studies 180/ History 180	U.S. History: Black Perspectives I	(3)
and		
Cross-Cultural Studies 181/ History 181	U.S. History: Black Perspectives II	(3)
	Total	6

Select SIX (6) units from any other Cross-Cultural Studies courses.

Total	6
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Additional Requirements:

At least one semester of a college level foreign language (3 to 5 units). The department recommends exposure to a foreign language other than a student's native language.

Total	3-5
Total Required	21-23
Plus General Education and Elective Requirements	

Certificates of Proficiency

The following Certificates of Proficiency are designed for the student who needs to be prepared for effective interaction in a diverse workplace or other settings. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. These certificates will not appear on a student's transcript.

Cross Cultural Competence

This certificate accompanies the completion of Cross-Cultural Studies 115: Cross-Cultural Competence with a letter grade of "C" or higher. It prepares a student to effectively work in our 21st-century cross-cultural environments, both within organizations and in interactions with the public. It provides a framework for a life-long journey of critical reflection and improving upon best practices that move people and institutions toward practices of inclusiveness.

Program Student Learning Outcomes

Upon completion of this course, our students will be able to do the following:

- a. Assess the influence of intersectionality, culture, perception, language, and non-verbal messages in cross-cultural settings.
- b. Analyze and describe specific barriers to effective cross-cultural interaction and construct solutions.
- c. Demonstrate the ability to interact effectively in cross-cultural situations

Note: This course must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cross-Cultural Studies 115	Cross Cultural Competence	3
	Total	3

Cross Cultural Communication Skills

This certificate prepares students to work in a job requiring cross-cultural interpersonal communication skills. Cultural proficiency through these courses provides students with a worldview and ways to effectively recognize, respond to, and plan for issues that arise in diverse environments. Completion of these courses prepares a student to integrate cross-cultural knowledge and communication skills when interacting orally or in writing with people of diverse backgrounds and/or identities.

Program Student Learning Outcomes

At the end of these three classes, students will be able to:

Integrate cross-cultural knowledge and communication skills when interacting orally or in writing with people of diverse backgrounds and/or identities.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cross-Cultural Studies 115 and Communication 144 or Cross-Cultural Studies 144 or Communication 124 and English 120	Cross Cultural Competence Communication Studies: Race and Ethnicity Communication Studies: Race and Ethnicity (3) Intercultural Communication (3) College Composition and Reading	3 3 (3) 3
	Total	9

Cross-Cultural Skills, with Conversational-Level Second Language

This certificate prepares students to work in a job requiring cross-cultural interpersonal communication and multi-lingual skills. Cultural proficiency through these courses provides students with a worldview and ways to effectively recognize, respond to, and plan for issues that arise in diverse environments. Completion of these courses prepares a student to integrate cross-cultural knowledge and communication skills when conversing in English or another language with people of diverse backgrounds and/or identities.

Program Student Learning Outcomes

At the end of these three classes, students will be able to: Integrate cross-cultural knowledge and communication skills when interacting orally or in writing with people of diverse backgrounds and/or identities.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Cross Cultural Studies 115 and Communication 144 or Cross Cultural Studies 144 or Communication 124 and ONE (1) of the following (3-5 units): Arabic 251 French 251 German 251 Japanese 251 Russian 251 Spanish 251 American Sign Language 221 and American Sign Language 222	Cross Cultural Competence Communication Studies: Race and Ethnicity (3) Intercultural Communication (3) ONE (1) of the following (3-5 units): Conversational Arabic II Conversational French II Conversational German II Conversational Japanese II Conversational Russian II Conversational Spanish II American Sign Language IV Conversation Lab II	3 3 (3) 3 3 3 3 4 1
	Total	9-11

CULINARY ARTS

The Culinary Arts Associate Degree program focuses on the development of flexible skills and knowledge essential for success in a cooking career. Modern food service is evolving rapidly thus providing a tremendous variety of workplaces from the exclusive dining room to the school cafeteria, from small intimate restaurants to the large hotel restaurants and catering facilities. Other opportunities include catering and personal chef. The associate degree will enable the student to understand the workings of food and the interplay among ingredients, cooking methods, cost factors, nutrition and a satisfying dining experience.

This program is also offered for Barona Resort and Casino employees participating in the Barona Institute Apprenticeship Program.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Baker
Banquet Chef
Boucher
Breakfast Cook
Cafeteria Manager
Cake Decorator
Catering Manager
Cook
Cook's Assistant
Cookbook Author
Dining Room Manager
Executive Chef
Food and Beverage Manager
Food Researcher
Food Server/Wait Person
Food Stylist
Garde Manager Chef
Kitchen Manager
Master Chef
Menu Consultant
Menu Planner
Pantry Cook
Pastry Chef
Personal Chef
Private Chef
Purchasing Steward
Recipe Developer
Recipe Tester
Restaurant Critic
Restaurant Manager
Restaurant Owner
Sous Chef

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate critical thinking in the food service environment.
2. Demonstrate appropriate behaviors in the work place environment.
3. Apply job acquisition skills.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 160	Quantity Food Preparation and Production	3
Culinary Arts 163	Food Purchasing for Culinary Arts	1
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 166	Menu Management	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 171	Intermediate Culinary Skills	3
Culinary Arts 172	Principles of Soup, Stock and Sauce Preparation	3
Culinary Arts 173	Principles of Buffet and Catering	3
Culinary Arts 174	Principles of Baking and Pastry Making	3
Culinary Arts 175	Healthy Lifestyle Cuisine	3
Culinary Arts 178	Fruits, Vegetables, Ice Carving and Competition	3
Culinary Arts 180	Advanced Food Preparation for Fine Dining	3
Culinary Arts 280	Seminar for Work Experience for Culinary Arts	1
Culinary Arts 281	Work Experience in Culinary Arts	2
Culinary Arts 282	Advanced Work Experience in Culinary Arts	2
	Total	35

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Health Education 155	Realities of Nutrition	3
Culinary Arts 164	International Cooking	3
Culinary Arts 167	Wines of the World	3
Culinary Arts 170	Introduction to Catering Management	3
Culinary Arts 176	Advanced Baking and Pastry Arts	3
Culinary Arts 177	Commercial Baking	3
	Total	3
	Total Required	38
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above for the major qualifies for a Certificate of Achievement in Culinary Arts. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Baking and Pastry

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 160	Quantity Food Preparation and Production	3
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 169	Essential Skills for Culinary Arts	3

Culinary Arts 171	Intermediate Culinary Skills	3
Culinary Arts 174	Principles of Baking and Pastry	3
Culinary Arts 176	Advanced Baking and Pastry	3
Culinary Arts 177	Commercial Baking	3
Culinary Arts 180	Advanced Food Preparation for Fine Dining	3
Culinary Arts 183	Pastry Skills in Bread Baking	3
Culinary Arts 184	Pastry Skills in Chocolate Preparation	3
Culinary Arts 185	Sugar Work and Decorative Centerpieces	3
Culinary Arts 186	Pastry Skills in Cake Decorating	3
Culinary Arts 280	Seminar for Work Experience for Culinary Arts	1
Culinary Arts 281	Work Experience in Culinary Arts	2
Culinary Arts 282	Advanced Work Experience in Culinary Arts	2
	Total	39

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Culinary Arts 164	International Cooking	3
Culinary Arts 175	Healthy Lifestyle Cuisine	3
	Total	3
	Total Required	42
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above for the major qualifies for the Certificate of Achievement in Baking and Pastry. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Culinary Entrepreneurship

Students who plan to prepare for a career in the culinary field as a manager or owner of a business will find that success is contingent on both expertise in culinary arts and a basic business foundation. Careers are available in a wide spectrum of enterprises such as:

- Fine dining restaurants and hotels
- Food service in the regional casinos
- Bed and breakfast enterprises
- Catering businesses
- Personal chef

This hybrid program combines the basics of culinary arts with the fundamental business skills that prepare students to enter a career that has unlimited potential for the future.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 109	Elementary Accounting	3
Business 146	Marketing	3
Business 148	Customer Relations Management	1.5
Business 156	Principles of Management	3
Business 158	Introduction to Hospitality and Tourism Management	3
Business Office Technology 172	Introduction to Microcomputer Applications	2
Culinary Arts 160	Quantity Food Preparation and Production	3
Culinary Arts 163	Food Purchasing for Culinary Arts	1
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 166	Menu Management	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 171	Intermediate Culinary Skills	3
	Total	27.5

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Business 115	Human Relations in Business	3
Business 140	Entrepreneurship: Developing a Business Plan	3
Cross-Cultural Studies 115	Cross-Cultural Awareness	3
Cross-Cultural Studies 170	American Indian Tribal Governments and Indian Sovereignty	3
Culinary Arts 170	Introduction to Catering Management	3
Culinary Arts 173	Principles of Buffet and Catering	3
	Total	3
	Total Required	30.5
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Culinary Entrepreneurship. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Line Cook

Certificate of Achievement

The Line Cook certificate prepares the student who has no exposure to the field and those with limited experience to immediately enter any Food Service operation in a line cook entry-level position with greater opportunity for advancement. The Food Service industry offers unlimited career opportunities and valuable experience. The foundation courses that can be completed in one or two semesters may lead to a Certificate of Achievement in Culinary Arts or with general education courses, an Associate of Science Degree in Culinary Arts.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 171	Intermediate Culinary Skills	3
Culinary Arts 172	Principles of Soup, Stock and Sauce Preparation	3
Culinary Arts 180	Advanced Food Preparation for Fine Dining	3
	Total	13

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Line Cook. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Banquet Cook

Certificate of Achievement

The Banquet Cook certificate prepares the student who has no exposure to the field and those with limited experience to immediately enter any Food Service banquet operation in a banquet cook entry-level position with greater opportunity for advancement. The Food Service industry offers unlimited career opportunities and valuable experience. The foundation courses that can be completed in one or two semesters may lead to a Certificate of Achievement in Culinary Arts or with general education courses, an Associate of Science Degree in Culinary Arts.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 160	Quantity Food Preparation and Production	3
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 171	Intermediate Culinary Skills	3
Culinary Arts 172	Principles of Soup, Stock and Sauce Preparation	3
	Total	13

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Banquet Cook. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Pastry Cook

Certificate of Achievement

The Pastry Cook certificate prepares the student who has no exposure to the field and those with limited experience to immediately enter any food service operation (bakery, pastry department) in a pastry cook entry-level position with greater opportunity for advancement. The food service industry offers unlimited career opportunities and valuable experience in bakery and pastry department settings. The foundation courses that can be completed in one or two semesters may lead to a Certificate of Achievement in Culinary Arts or with general education courses, an Associate of Science Degree in Culinary Arts.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 174	Principles of Baking and Pastry Making	3
Culinary Arts 176	Advanced Baking and Pastry Arts	3
Culinary Arts 177	Commercial Baking	3
Total		13

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Pastry Cook. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Prep Cook

Certificate of Achievement

The Prep Cook certificate prepares the student who has no exposure to the field and those with limited experience to immediately enter any food service operation in a prep cook entry-level position with greater opportunity for advancement. The food service industry offers unlimited career opportunities and valuable experience. The foundation courses that can be completed in one or two semesters may lead to a Certificate of Achievement in Culinary Arts or with general education courses, an Associate of Science Degree in Culinary Arts.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Culinary Arts 160	Quantity Food Preparation and Production	3
Culinary Arts 165	Sanitation for Food Service	1
Culinary Arts 169	Essential Skills for Culinary Arts	3
Culinary Arts 172	Principles of Soup, Stock and Sauce Preparation	3
Culinary Arts 180	Advanced Food Preparation for Fine Dining	3
Total		13

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Prep Cook. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

DANCE

The associate degree dance program is designed to provide a broad base of dance classes that will provide training for transfer to similar programs at four-year institutions and will prepare students for employment in a variety of areas of dance.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Choreographer*
 Dance Director
 Dance Historian*
 Dancer
 Dance Teacher*
 Dance Therapist*
 Fitness/Aerobics Instructor
 Movement Notator
 Performer
 Reconstructor
 Recreation Leader
 *Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate an awareness of the concept of artistic expression through movement.
2. Identify and practice proper body alignment for dance.
3. Demonstrate a working knowledge of vocabulary as related to dance.
4. Develop aesthetic values as they relate to dance.
 Based upon these values; will critically think about and analyze dance as an art form.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Dance 080A	Modern I	1.5
Dance 080B	Modern II	1.5
Dance 084A	Jazz I	1.5
Dance 084B	Jazz II	1.5
Dance 088A	Ballet I	1.5
Dance 088B	Ballet II	1.5
Dance 094A	Hip Hop I	1.5
Dance 110	Dance History	3
or		
Dance 120	Dance Appreciation	3
Dance 118A	Pilates I	1.5
Dance 204	Dance Improvisation	2
Dance 205	Choreography and Improvisation I	2
Total		19

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Dance 080C	Modern III	1.5
Dance 080D	Modern IV	1.5
Dance 084C	Jazz III	1.5
Dance 084D	Jazz IV	1.5
Dance 088C	Ballet III	1.5
Dance 088D	Ballet IV	1.5
Total		3

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Dance 201	Dance Theatre Performance I	1
Dance 202	Dance Theatre Performance II	2
Dance 203	Dance Theatre Performance III	3
Dance 223	Student Choreography for Production I	2.5
Dance 224	Student Choreography for Production II	2.5
Dance 225	Student Choreography for Production III	2.5
Dance 227	Performance Ensemble I	1
Dance 228	Performance Ensemble II	1.5
Dance 229	Performance Ensemble III	2
Dance 230	Performance Ensemble III	2.5
	Total	2-5.5

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Dance 068	Introduction to Dance	1
Dance 071 A or B	Studio Workshop in Tap Dance I or II	1
Dance 072 A or B	Studio Workshop in Modern Dance I or II	1
Dance 074 A or B	Studio Workshop in Jazz Dance I or II	1
Dance 078 A or B	Studio Workshop in Ballet I or II	1
Dance 081 A or B or C or D	Tap I or II or III or IV	1.5
Dance 082 A or B	Social and Ballroom Dance I or II	1.5
Dance 094 A or B or C or D	Hip Hop I or II or III or IV	1.5
Dance 095	Musical Theatre Dance	1.5
Dance 099 A or B or C	Studio Workshop in Pointe I or II or III	1
Dance 116	Stretch and Alignment	1.5
Dance 118 B or C or D	Pilates II or III or IV	1.5
Dance 200	Touring Dance Ensemble	2
Dance 206	Choreography and Improvisation II	2
	Total	2-4
	Total Required	26-31.5
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Dance. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

DISABILITY SERVICES MANAGEMENT

This program is designed to prepare the student to provide support to individuals with disabilities in a variety of home, work, school and recreation environments. Emphasis is placed on students applying their skills in increasingly complex systems of support. The program is structured to encourage transfer to four-year institutions. Health Sciences 110 and 150 plus certification in CPR and First Aid meet the minimum requirements for the California State Department of Developmental Services Residential Services Specialist (RSS) Certificate.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Counselor*
Group-Home Manager
Occupational Therapist*
Psychologist*
Recreational Therapist
Speech Pathologist*
Social Worker*
Special Education Teacher*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs)

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Apply principles of inclusion for people with disabilities in a variety of environments including home, work, school, community and recreation.
2. Gain an understanding of the factors impacting quality of life for persons with disabilities.
3. Implement a variety of training techniques that will enhance a person with a disability in daily life and independence.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 156	Principles of Management	3
Family Studies 120	Human Development	3
Health Education 120	Personal Health and Lifestyles	3
Health Sciences 110	Disability and Society	3
Health Sciences 150	Techniques for Developmental Disabilities Specialist	3
Health Sciences 205	Alternative/Augmentative Communication and Assistive Technology for People with Disabilities	3
Health Sciences 206	Behavior Management and Training Techniques	3
Psychology 120	Introductory Psychology	3
	Total	24

Select FOUR (4) units using any combination of the following courses:

Subject & Number	Title	Units
Health Sciences 152 A-B	Work Experience for Disability Services Management	2
Health Sciences 154	Work Experience for Disability Services Management	4
	Total	4

Select any TWO (2) of the following courses (minimum of 4.5 units):

Subject & Number	Title	Units
Biology 120	Principles of Biology	4
Biology 140	Human Anatomy	5
Biology 144	Human Anatomy and Physiology I	4
Business 115	Human Relations in Business	3
Child Development 141	Working with Children with Special Needs	3
Communication 120	Interpersonal Communication	3
or		
Communication 122	Public Speaking	(3)
Exercise Science 290	Teaching Techniques and Methods in Exercise Science	1.5
Health Education 155	Realities of Nutrition	3
Psychology 134	Human Sexuality	3
Sociology 120	Introductory Sociology	3
Sociology 125	Marriage, Family, and Alternate Life Styles	3
	Total	4.5-9
	Total Required	32.5-37
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major and who has CPR and First Aid certification qualifies for a Certificate of Achievement in Disability Services Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



Associate Degree
for Transfer™

ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER DEGREE

The Associate in Science in Early Childhood Education for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 24 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Early Childhood Education for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis. A "Pass" grade is not an acceptable grade for courses in the major.

The Child Development Program is designed to provide courses which lead toward an Associate Degree and/or Certificate in Child Development and meet the requirements of the California Commission on Teacher Credentialing. It emphasizes program and curriculum planning for children from infancy through school age, guidance techniques, special needs of children and families, creative learning, health and safety education, administration of child development programs and current issues in the field.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Analyze and apply principles of scientific research to the study of human development; integrate and apply current theory and research to the observation, documentation, and unbiased analysis of human behaviors.
2. Formulate practical applications of theory and research to developmentally appropriate practice in varying contexts: personal, classroom, agency and community.
3. Critically examine societal and personal attitudes, beliefs, values and assumptions towards the diverse contexts of child and human development including: ethnicity, gender, language, family structure, socio-economic status, age and ability.
4. Compare and examine differing social, economic, political, historical, cultural and family contexts and their effect on human development; demonstrate effective advocacy techniques related to current social issues pertaining to children, adults, and families.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Child Development 123	Principles and Practices of Programs and Curriculum for Young Children	3
Child Development 125*	Child Growth and Development	3
Child Development 130	Curriculum: Design and Implementation	3
Child Development 131*	Child, Family and Community	3
Child Development 134	Health, Safety and Nutrition of Young Children	3
Child Development 153	Teaching in a Diverse Society	3
Child Development 212	Practicum in Early Childhood Education	3
Child Development 213	Observation and Assessment	3
	Total	24
	Units for the major	24
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER (A.A.-T)

The Associate in Arts in Economics for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB1440. A total of 19-21 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). A student may apply for this degree in conjunction with an Associate in Arts in Economics degree provided the courses taken meet the requirements of both degrees. Students should speak with a counselor to verify that the requirements for either or both degrees have been met. In addition, students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Economics for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Associate in Arts in Economics Transfer Degree (A.A.T) will provide students with the lower division core courses required for bachelorette-level study in the discipline. A bachelor's degree in economics offers graduates a variety of career paths in such fields as management, finance, government, and general business. It also serves as an excellent foundation for post-graduate training in fields such as law, education, and health care. Furthermore, the study of economics facilitates the development of higher-level analytical reasoning skills applicable to a variety of educational and occupational endeavors.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Employ their discipline knowledge and skills to the community; for example present themselves and interact with others in a professional manner, communicate economic concepts orally, convey economic ideas in a variety of written forms.
2. Demonstrate knowledge of micro- and macroeconomic theories.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Economics 120*	Principles of Macroeconomics	3
Economics 121*	Principles of Microeconomics	3
Economics 215*	Statistics for Business & Economics (Math 160 will be accepted)	3
Math 178*	Calculus for Business, Social, & Behavioral Sciences	4
or		
Math 180*	Analytic Geometry & Calculus I	(5)
	Total	13-14

List A: Select ONE (1) course from the following:

Business 120	Financial Accounting	4
Business 121	Managerial Accounting	4
Business 128	Business Communication	3
Computer Science		
Information Systems 110	Principles of Information Systems	4
	Total	3-4

List B: Select ONE (1) course from the following:

Subject & Number	Title	Units
Any course not used in List A or:		
Economics 110*	Economic Issues & Policies	3
Economics 261*	Economic Relations of the Asian Pacific	3
	Total	3
	Total for the major	19-21
	Units for CSU GE Breadth or IGETC-CSU GE	37-39
	Total Units Required for the Degree	60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE.

ECONOMICS

Economics is the study of how a society chooses to use its limited resources to produce, exchange, and consume goods and services. The study is divided into two broad areas - macroeconomics and microeconomics.

Macroeconomics deals with broad, economy-wide issues such as economic growth, inflation, unemployment, and depression. Microeconomics focuses on choices and behavior of individual participants in the economy - producers, workers, employers and consumers - and on issues involving competition, monopoly, and inequality in income and wealth. Microeconomics can also provide insights in such areas as family relationships, crime, and discrimination of many sorts.

The associate degree program with a major in economics will prepare students to transfer to four-year institutions where they can complete baccalaureate degrees in economics and other disciplines. It is important to understand that economics is an impacted major at most University of California campuses and at several California State University campuses. It is recommended, therefore, that students consult the catalog of the transfer institution for specific requirements. By and large, jobs for economists in teaching, government, or large corporations require a graduate degree in the field, while a bachelor's degree in economics will qualify students for the same kinds of jobs available for holders of general business degrees or general liberal arts degrees.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Auditor*
 Claim Adjuster+
 Claim Examiner+
 Computer Systems Engineer*
 Credit Analyst*
 Employment Interviewer
 Financial Planner*
 Fund Raiser*
 Hospital Insurance Representative
 Market Research Analyst
 Statistician*
 Treasurer*

*Bachelor's Degree or higher required.
 +Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Employ their discipline knowledge and skills in service to the community; for example, present themselves and interact with others in a professional manner, communicate economic concepts orally, convey economic ideas in a variety of written forms.
2. Demonstrate knowledge of micro- and macroeconomic theories.

Associate Degree Major Requirements

All courses in the major must be completed with a "C" grade or higher.

Subject & Number	Title	Units
Economics 110	Economic Issues and Policies	3
Economics 120	Principles of Macroeconomics	3
Economics 121	Principles of Microeconomics	3
Economics 215	Statistics for Business & Economics	3
or		
Mathematics 160	Elementary Statistics	(4)
Business 120	Financial Accounting	4
Computer Science	Principles of Information	
Information Systems 110	Systems	4
Political Science 121	Introduction to U.S. Government and Politics	3
	Total	23-24

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Political Science 130	Introduction to International Relations	3
Sociology 120	Introductory Sociology	3
	Total	3

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Mathematics 178*	Calculus for Business, Social and Behavioral Sciences	4
Mathematics 180*	Analytic Geometry and Calculus I	5
	Total	4-5
	Total Required	30-32
	Plus General Education and Elective Requirements	

*Students planning to transfer to four-year institutions to complete a bachelor's degree in economics should be aware that the major at such institutions often requires a three-semester sequence in calculus equivalent to



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER DEGREE (A.A.-T)

The Associate in Arts in English for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in English for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The discipline of English assists students in appreciating literature and in developing skills in varied forms of communication. The ability to understand and use English effectively is necessary for success in diverse fields such as creative and technical writing, journalism and telecommunications, advertising and marketing, teaching, editing, public relations, law, politics, medicine, and business.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing the specific degree requirements in this program. Students will:

1. Understand the uses of language to express ideas in a variety of texts.
2. Develop reading efficiency and appreciation in order to critically engage, analyze, and evaluate multiple genres of texts.
3. Make effective choices that demonstrate their autonomy as expository and/or creative writing.
4. Critically analyze, assess, contextualize, and synthesize sources within their writing.
5. Recognize, appreciate, and evaluate multiple cultural perspectives.
6. Participate in various communities, such as academic, artistic, civic, and professional.

Associate Degree in English for Transfer Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
English 122*	Introduction to Literature	3
English 124*	Advanced Composition: Critical Reasoning & Writing	3
	Total	6

List A (6 units)

English 221*	British Literature I	3
English 222*	British Literature II	3
English 231*	American Literature I	3
English 232*	American Literature II	3
	Total	6

List B (3 units)

Any course from List A not already used or		
English 126	Creative Writing	3

List C (3 units)

Any course from List A or List B not already used OR any of the following courses:

Subject & Number	Title	Units
English 201*	Images of Women in Literature	3
English 215*	Mythology	3
English 218*	Shakespeare	3
English 225*	The Bible as Literature: Narratives of the Hebrew People	3
English 226*	The Bible as Literature: Old Testament History and Writings of the Prophets	3
English 227*	The Bible as Literature: The Literary Forms of the Old Testament	3
English 228*	The Bible as Literature: The Literary Forms of the New Testament	3
English 236*	Chicano/ Chicana Literature	3
English 130	Short Fiction Writing I	3
English 131	Short Fiction Writing II	3
English 132	Short Fiction Writing III	3
English 133	Short Fiction Writing IV	3
English 134	Creative Nonfiction Writing I	3
English 135	Creative Nonfiction Writing II	3
English 136	Creative Nonfiction Writing III	3

English 137	Creative Nonfiction Writing IV	3
English 140	Poetry Writing I	3
English 141	Poetry Writing II	3
English 142	Poetry Writing III	3
English 143	Poetry Writing IV	3
English 145	Acorn Review: Editing and Production I	3
English 146	Acorn Review: Editing and Production II	3
English 147	Acorn Review: Editing and Production III	3
English 148	Acorn Review: Editing and Production IV	3
English 160	Drama Writing I	3
English 161	Drama Writing II	3
English 162	Drama Writing III	3
English 163	Drama Writing IV	3
English 175	Novel Writing I	3
English 176	Novel Writing II	3
English 177	Novel Writing III	3
English 178	Novel Writing IV	3
Business 128	Business Communication	3
Communication 135	Oral Interpretation of Literature	3
Humanities 110*	Principles of the Humanities	3
Theatre 110*	Introduction to the Theatre	3
Arabic 120*	Arabic I	5
Arabic 121*	Arabic II	5
Arabic 220*	Arabic III	5
Arabic 221*	Arabic IV	5
Chinese 120*	Chinese I	5
Chinese 121*	Chinese II	5
Chinese 220*	Chinese III	5
Chinese 221*	Chinese IV	5
French 120*	French I	5
French 121*	French II	5
French 220*	French III	5
French 221*	French IV	5
German 120*	German I	5
German 121*	German II	5
German 220*	German III	5
German 221*	German IV	5
Italian 120*	Italian I	5
Italian 121*	Italian II	5
Italian 220*	Italian III	5
Italian 221*	Italian IV	5
Japanese 120*	Japanese I	5
Japanese 121*	Japanese II	5
Japanese 220*	Japanese III	5
Japanese 221*	Japanese IV	5
Russian 120*	Russian I	5
Russian 121*	Russian II	5
Russian 220*	Russian III	5
Russian 221*	Russian IV	5
Spanish 120*	Spanish I	5
Spanish 121*	Spanish II	5
Spanish 220*	Spanish III	5
Spanish 221*	Spanish IV	5
	Total	3
	Units for the major	18
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE.

ENGLISH

The English major fulfills lower division requirements at most four-year colleges and universities and thus provides a broadbased foundation for transfer. For particular requirements, transfer students should consult the catalog of the transfer institution for specific requirements.

The study of English gives life-long pleasures to students in exploring and understanding how language works to express human ideas and feelings. English course work also helps people succeed in such diverse fields as teaching, writing, editing, journalism, advertising, public relations, law, insurance, communications, film and video work, politics, business, and medicine.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising Manager*

Announcer (Radio and TV)

Clergy Member

College English Professor*

Fiction/Nonfiction Writer

Foreign Service Officer

Freelance Writer*

Fund Raiser*

Media Planner*

Reporter*

Researcher*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Understand the uses of language to express ideas in a variety of texts.
2. Develop reading efficiency and appreciation in order to critically engage, analyze, and evaluate multiple genres of texts.
3. Make effective choices that demonstrate their autonomy as expository and/or creative writers.
4. Critically analyze, assess, contextualize, and synthesize sources within their writing.
5. Recognize, appreciate, and evaluate multiple cultural perspectives.
6. Participate in various communities, such as academic, artistic, civic, and professional.

Associate Degree Major Requirements Core Curriculum

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
English 120	College Composition and Reading	3
English 122	Introduction to Literature	3
English 124	Advanced Composition: Critical Reasoning and Writing	3
English 126	Creative Writing	3
	Total	12

Select SIX (6) units from the following:

Subject & Number	Title	Units
English 221	British Literature I	3
English 222	British Literature II	3
English 231	American Literature I	3
English 232	American Literature II	3
English 241	Literature of the Western World I	3
English 242	Literature of the Western World II	3
	Total	6

Select THREE (3) units from the following:

Subject & Number	Title	Units
English 215	Mythology	3
English 236	Chicano Literature	3
or		
Cross-Cultural Studies 236	Chicano Literature	(3)
English 237	American Indian Literature	3
or		
Cross-Cultural Studies 237	American Indian Literature	(3)
English 238	Black Literature	3
or		
Cross-Cultural Studies 238	Black Literature	(3)
	Total	3

Select THREE (3) units from the following:

Subject & Number	Title	Units
History 100	Early World History	3
History 101	Modern World History	3
History 105	Early Western Civilization	3
History 106	Modern Western Civilization	3
Humanities 120	European Humanities	3
Humanities 170	World Humanities	3
Philosophy 112	The Classical Mind	3
Philosophy 114	The Medieval Mind	3
Philosophy 116	The Modern Mind	3
Philosophy 118	The Contemporary Mind	3
	Total	3
	Total Required	24
	Plus General Education and Elective Requirements	

Recommended Electives:

Students planning to transfer to four-year institutions to complete a bachelor's degree in English are STRONGLY urged to take the following courses, depending on the requirements at those schools.

TWO (2) sequential semesters of a single foreign language	Units
	10
Total	10

Certificate of Achievement

Any student who chooses to complete only those courses required for the above major (i.e., 24 units) qualifies for a Certificate of Achievement in English. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Area of Emphasis

Creative Writing

Note: All courses must be completed with a letter grade of "C" or higher.

Select SIX (6) additional units from the following:

Subject & Number	Title	Units
English 130	Short Fiction Writing I	3
English 131	Short Fiction Writing II	3
English 132	Short Fiction Writing III	3
English 133	Short Fiction Writing IV	3
English 134	Creative Nonfiction Writing I	3
English 135	Creative Nonfiction Writing II	3
English 136	Creative Nonfiction Writing III	3
English 137	Creative Nonfiction Writing IV	3
English 140	Poetry Writing I	3
English 141	Poetry Writing II	3
English 142	Poetry Writing III	3
English 143	Poetry Writing IV	3
English 145	The Acorn Review: Editing and Production I	3
English 146	The Acorn Review: Editing and Production II	3
English 147	The Acorn Review: Editing and Production III	3
English 148	The Acorn Review: Editing and Production IV	3
English 160	Drama Writing I	3
English 161	Drama Writing II	3
English 162	Drama Writing III	3
English 163	Drama Writing IV	3
English 175	Novel Writing I	3
English 176	Novel Writing II	3
English 177	Novel Writing III	3
English 178	Novel Writing IV	3
	Total	6
	Total Required	30
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only those courses required for the above major (i.e., 30 units) qualifies for a Certificate of Achievement in English – Creative Writing. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

EXERCISE SCIENCE AND WELLNESS

The Department of Exercise Science and Wellness (formerly the Department of Physical Education) offers a solid academic foundation for further study in the field of exercise science, kinesiology and/or physical education. The primary emphasis of the Exercise Science and Wellness major program is to prepare students for successful transfer to baccalaureate (four-year) institutions as well as for entry-level jobs within the fitness industry. The course package for majors is modeled on the preparation for major at San Diego State University, and allows for an emphasis either in Fitness, Nutrition and Health in line with SDSU. The package may also satisfy many requirements for most other California State University institutions as well, but students should check the catalog of the school being considered for its specific requirements.

This department also offers a Fitness Specialist Certificate program which is designed to prepare students to take nationally recognized certification examinations offered throughout the fitness industry. Courses required for the certificate are on page 97. For more details, contact the Exercise Science Department.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Athletic Trainer*

Fitness Professional (personal trainer, aerobic dance instructor, fitness club instructor, etc.)

Physical Therapy*

Recreational Sports Coach*

Secondary School Coach*

Teacher*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate knowledge, skills and appreciation of exercise science principles.
2. Identify the basic principles for maintaining an active and healthy lifestyle.

Associate Degree Major Requirements

Core Curriculum

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Exercise Science 005A or B or C	Beginning, or Intermediate or Advanced Aerobic Fitness and Weight Training	1.5
Exercise Science 250	Introduction to Kinesiology	3
Exercise Science 255	Care and Prevention of Athletic Injuries	3
Exercise Science 290	Teaching Techniques and Methods in Exercise Science	1.5
Biology 140	Human Anatomy	5
Chemistry 115 or	Fundamentals of Chemistry	4
Chemistry 120	Preparation for General Chemistry	(4)
Communication 122	Public Speaking	3
Health Education 158 or	Nutrition for Fitness and Sports	3
Health Education 255	Science of Nutrition	(3)

Psychology 120

Sociology 120

Introductory Psychology

3

Introductory Sociology

3

Total

30

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Biology 215	Statistics for Life Sciences	3
Psychology 215	Statistics for the Behavioral Sciences	4
Sociology 215	Statistics for the Behavioral Sciences	4
Mathematics 160	Elementary Statistics	4
	Total	3-4

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Exercise Science 006A or B or C	Beginning or Intermediate or Advanced Total Body Fitness	1
Exercise Science 009A or B or C	Beginning or Intermediate or Advanced Aerobic Dance Exercise	1
Exercise Science 023A or B or C	Beginning or Intermediate or Advanced Weight Training	1
Exercise Science 043A or B or C	Beginning or Intermediate or Advanced Swimming	1
Exercise Science 060A or B or C	Beginning or Intermediate or Advanced Badminton	1
Exercise Science 076A or B or C	Beginning or Intermediate or Advanced Tennis	1
Exercise Science 125A or B or C	Beginning or Intermediate or Advanced Golf	1-1.5
Exercise Science 130A or B or C	Beginning or Intermediate or Advanced Gymnastics	1-1.5
Exercise Science 171A or B or C	Beginning or Intermediate or Advanced Softball	1
Exercise Science 175A or B or C	Beginning or Intermediate or Advanced Volleyball	1
	Total	1-1.5
	Total Required	34-35.5
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only those courses required for the above major (i.e. 34 – 35.5 units) qualifies for a Certificate of Achievement in Exercise Science and Wellness. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Area of Emphasis

Athletic Training

In addition to completion of the core curriculum the following courses must be completed:

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Biology 230	Principles of Cellular, Molecular and Evolutionary Biology	4
Biology 240	Principles of Ecology, Evolution and Organismal Biology	5
Chemistry 116	Introductory Organic Chemistry	4
Chemistry 141	General Chemistry I	5
Computer Science Info. Systems 110	Principles of Information Systems	4
	Total	22
	Total Required	55.5-56
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only those courses required for the above major (i.e. 55.5 - 56 units) qualifies for a Certificate of Achievement in Exercise Science and Wellness with an emphasis in Athletic Training. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Certificate of Proficiency

Certificates of Proficiency are designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. This certificate will **not** appear on a student's transcript. The Exercise Science and Wellness Department offers a program in Fitness Specialist Certification which is designed to prepare students to take nationally recognized certification examinations offered throughout the fitness industry. For more details, contact the ES department chair at (619) 644-7402.

Fitness Specialist Certification

The Exercise Science and Wellness Department offers a Fitness Specialist Certificate. Designed as a 1-year program with sequenced courses, this certificate prepares students to successfully pass national fitness certification exams as well as work in the fitness industry. The courses for the Fitness Specialist Certification are different than those required for transfer to 4-year institutions in Exercise Science or Kinesiology; courses are intended as vocational preparation rather than a step for a baccalaureate degree. For more details, contact the ES department chair at (619) 644-7400.

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Exercise Science 255	Care and Prevention of Athletic Injuries	3
Exercise Science 291	Anatomy and Kinesiology For Fitness Specialists	3
Exercise Science 292	Exercise Physiology for Fitness Specialists	3
Exercise Science 293	Strength Training / Fitness Assessments for Fitness Specialists	2.5
Exercise Science 294	Exercise Program Design and Special Populations	3
Exercise Science 296	Internship Seminar for Fitness Specialists	.5
Exercise Science 297	Internship for Fitness Specialists	1
Health Education 158	Nutrition for Fitness and Sport	3
	Total	19

FRENCH

This program is designed to provide students with skills in understanding, speaking, reading, and writing French. It also gives students a greater understanding of French culture and civilization and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken, and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of Foreign Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Customs Agent/Inspector
 Diplomatic Officer*
 Fashion Coordinator+
 Foreign Broadcast Specialist*
 Foreign Correspondent*
 Immigration Inspector
 Journalist*
 Teacher/Professor*
 Travel Agent+
 United Nations Guide
 *Bachelor's Degree or higher required.
 +Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health, and well-being, professions and occupations, the arts, current events, and politics.
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city, life, health and well-being, professions, and occupations, the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
French 120	French I	5
French 121	French II	5
French 220	French III	5
French 221	French IV	5
French 250	Conversational French I	3
French 251	Conversational French II	3
History 106 or Humanities 120	Modern Western Civilization European Humanities	3 (3)
	Total Required	29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in French. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

General Studies AA - Humanities and Fine Arts

Minimum 18 units required. Minimum 6 units from Humanities and 6 units from Fine Arts. The remaining 6 units can be taken from either category.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Courses in this emphasis are designed to cultivate intellect, imagination, sensibility and sensitivity. Students will study great works of the human imagination and will examine their own esthetic and creative experience. Awareness and appreciation of humanistic disciplines will be explored and encouraged. Students will be exposed to the study of human culture from a variety of perspectives.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Examine their own esthetic and creative experience.
2. Develop an awareness and appreciation of humanistic disciplines.
3. Analyze the study of human culture from a variety of perspectives.

Humanities

ASL 120, 121, 130, 131, 140, 220, 221, 250
 ARBC 120, 121, 122, 123, 220, 221, 250, 251
 CHIN 120, 121, 220, 221, 250, 251
 COMM 124, 137, 144, 145
 CCS 122, 123, 144, 147, 149, 152, 236, 238
 ENGL 112, 118, 122, 201, 215, 217, 218, 219, 221, 222, 225, 226, 227, 228, 231, 232, 236, 237, 238, 241, 242
 FREN 120, 121, 152, 220, 221, 250, 251
 GERM 120, 121, 220, 221, 250, 251
 HIST 100, 101, 103, 105, 106, 126, 135, 136, 137, 148
 HUM 110, 120, 125, 130, 135, 140, 160, 170
 ITAL 120, 121, 220, 221, 250, 251
 JAPN 120, 121, 149, 220, 221, 250, 251
 PHIL 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155
 RELG 120, 130, 140, 150, 170

RUSS 120, 121, 220, 221, 250, 251

SPAN 120, 121, 122, 123, 141, 145, 220, 221, 250, 251

Fine Arts

ART 100, 120, 121, 124, 125, 126, 127, 129, 130, 131, 132, 140, 141, 142, 143, 145, 146, 147, 171, 172, 189
 CCS 126, 127, 134
 DANC 110, 120
 ENGL 126
 MCOM 111, 189
 MUS 110, 111, 115, 116, 117, 123, 189
 PHOT 150, 151, 154
 THTR 101, 110, 130, 131, 143, 144, 189

General Studies AS - Science and Quantitative Reasoning

Minimum 18 units required. Minimum 6 units from Science and 6 units from Analytical Thinking and Quantitative Reasoning. The remaining 6 units can be taken from any category.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

This emphasis is intended to involve inquiry into the physical universe and its life forms with consideration of facts and principles which form the foundations of living and non-living systems. Students will explore scientific methodologies as investigative tools, the acquisition and use of evidence, and the past and present influences of science on world civilizations. Understanding and analysis of basic mathematical and quantitative reasoning including analytical thinking concepts will be explored.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Explore scientific methodologies as investigative tools.
2. Acquire and analyze evidence.
3. Distinguish past and present influences of science on world civilizations.
4. Identify and analyze basic mathematical and quantitative reasoning concepts.

Science

ANTH 130, 131
 ASTR 110, 112, 120
 BIO 105, 110, 112, 114, 118, 120, 140, 141, 141L, 144, 145, 150, 152, 230, 240
 CHEM 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241, 241L, 242, 242L
 GEOG 120, 121, 140, 150
 GEOL 104, 110, 111, 121, 150, 210, 220, 230
 OCEA 112, 113, 150
 PSC 100, 110, 111
 PHYC 110, 130, 131, 140, 240, 241
 SCI 110

Analytical Thinking and Quantitative Reasoning

ANTH 215
 BIO 215
 CSIS 119, 165, 293, 294, 296, 297
 ECON 215
 GEOG 104
 MATH 120, 125, 126, 150, 160, 170, 175, 176, 177, 178, 180, 245, 280, 281, 284, 285
 PHIL 125, 130
 PSC 120
 PSY 215
 SOC 215

General Studies AA - Social and Behavioral Sciences

Minimum 18 units required. Minimum 6 units from Social Sciences and 6 units from Behavioral Sciences. The remaining 6 units can be taken from either category.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

These courses prepare students for a better understanding of the interrelationships of people and institutions and the complex world of cultures in which we live, a world that involves the dynamic patterns of social, political, economic and human factors by examining them in a scientific manner within their proper historical context. Students focus on people as members of society; develop an awareness of the method of inquiry used by the social and behavioral sciences. It shall be designed to stimulate critical thinking about the ways people act and have acted in response to their societies and should promote appreciation of how societies and social subgroups operate.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Identify and apply methods of inquiry used by social and behavioral sciences.
2. Critically interpret the ways people act and have acted in response to their societies.
3. Distinguish and critique how societies and social subgroups operate.

Social Sciences

AOJ 110, 200, 240
 CCS 114, 116, 118, 119, 124, 128, 130, 131, 132, 133, 135, 143, 144, 145, 153, 154, 155, 170, 180, 181
 CD 115, 145, 153
 COMM 144
 COUN 120
 ECON 110, 120, 121, 261
 FS 115
 GEOG 100, 101, 106, 130, 170
 HESC 110
 HIST 100, 101, 103, 105, 106, 108, 109, 113, 114, 115, 118, 119, 122, 123, 124, 126, 130, 131, 136, 137, 148, 154, 155, 180, 181
 MCOM 110, 210
 POSC 120, 121, 124, 130, 135, 140, 150, 160
 SOC 114

Behavioral Sciences

ANTH 120, 140
 CD 115, 125, 153
 COMM 124, 128
 CCS 115, 125, 153
 FS 115, 120
 HED 120, 155, 201
 PSY 120, 125, 132, 134, 138, 140, 150, 170, 180, 220
 SOC 120, 125, 130, 138, 140

General Studies AA - Wellness and Self-Development

Minimum 18 units required. Minimum 6 units from Wellness and 6 units from Self Development. The remaining 6 units can be taken from either category. A maximum of 3 units of credit allowed for ES/DANC activity courses.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

This emphasis is designed to equip students with information and tools for lifelong wellness and self-development as integrated beings. Students will be acquainted with the vast landscape of wellness and self-development, taking into account the psychological, biological, developmental, physical factors, and they will be able to make effective decisions about optimizing their own wellness, lifestyle, and performance.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Identify the psychological, biological, developmental and physical factors that make up wellness and self development.
2. Recognize and demonstrate effective decisions about optimizing their own wellness, lifestyle and performance.

Wellness

BIO 118
 ES 250, 255
 HED 101, 105, 120, 155, 158, 159, 201, 255
Activity: DANC 068, 071A, 071B, 072A, 072B, 074A, 074B, 080A, 080B, 080C, 080D, 081A, 081B, 081C, 081D, 082A, 082B, 084A, 084B, 084C, 084D, 088A, 088B, 088C, 088D, 094A, 094B, 094C, 094D, 099A, 099B, 099C, 116, 118A, 118B, 118C, 118D
Activity: ES 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 027, 028A, 028B, 028C, 029, 030, 035, 037A, 037B, 037C, 039, 040A, 040B, 040C, 041, 043A, 043B, 043C, 044A, 044B, 044C, 060A, 060B, 060C, 076A, 076B, 076C, 125A, 125B, 125C, 130A, 130B, 130C, 155A, 155B, 155C, 170A, 170B, 170C, 171A, 171B, 171C, 172A, 172B, 172C, 175A, 175B, 175C, 175D, 176A, 176B, 176C, 180, 185A, 185B, 185C

Self Development

BIO 112
 BUS 195
 CCS 115, 153
 CD 125, 153
 CHEM 110
 COMM 128
 COUN 110, 120, 130
 ENGL 219
 FS 110, 120, 129
 HESC 110
 LIR 110
 PSY 132, 134, 140, 150, 180, 220
 SOC 125



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER (A.A.-T)

The Associate in Arts in Geography for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 19 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Geography for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Geography is the study of spatial aspects of the physical environment, human activities and landscapes, and the nature of their interactions. Geographers draw upon theories from both the physical and social sciences. As physical scientists, they study the processes and resulting features of the earth's surface, such as vegetation, climate, soils, landforms, and resources. As social scientists, geographers explore such topics as the arrangement of societies on the earth's surface, land use patterns, urbanization, resources and energy usage, and environmental conservation. Therefore, geography includes a wide range and variety of academic disciplines in both the physical and social sciences. It is truly an

integrating discipline.

The Earth Sciences Department strives to impart the following **Program-level Student Learning Outcomes (PSLOs)** through the successful completion of the specific degree requirements in this program. Students will:

1. Apply the scientific method
2. Demonstrate spatial literacy
3. Analyze special information and patterns
4. Evaluate relationships between humans and the environment
5. Employ geoscience technology for spatial data management

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Geography 120*	Elements of Physical Geography	3
Geography 121*	Physical Geography Laboratory	1
Geography 130*	Human and Cultural Geography	3
	Total	7
List A:		
Geography 104	Introduction to Geographic Information Science	3
Geography 170*	The Geography of California	3
	Total	6
List B		
Geography 140*	Introduction to Meteorology	3
Geography 150	Field Study of the Natural History of the Greater San Diego Region	3
	Total	6
	Units for the major	19
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

GEOGRAPHY

Geography is the study of spatial aspects of the physical environment, human activities and landscapes, and the nature of their interactions. Geographers draw upon theories from both the physical and social sciences. As physical scientists, they study the processes and resulting features of the earth's surface, such as vegetation, climate, soils, landforms, and resources. As social scientists, geographers explore such topics as the arrangement of societies on the earth's surface, land use patterns, urbanization, resources and energy usage, and environmental conservation. Therefore, geography includes a wide range and variety of academic disciplines in both the physical and social sciences. It is truly an integrating discipline.

The associate degree program with a major in geography will prepare students to transfer to four-year institutions where they can complete baccalaureate degrees in geography and other disciplines. It is recommended,

however, that students consult the catalog of the transfer institution for specific requirements. Many university geography graduates enter teaching professions at all levels. Multiple federal, city, county and state governments, as well as private companies, hire geographers in the fields of resource management, geographic information systems, urban planning, and environmental planning because of their broad training. For example, the U.S. Geologic Survey traditionally hires geographers in map making, air photo interpretation, satellite image analysis, and land use mapping.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Aerial Photograph Interpreter
 Computer Mapping (G.I.S.)*
 Demographer*
 Ecologist*
 Environmental Analyst*
 Geographer*
 Land Planner*
 Meteorologist*
 Satellite Image Processor*
 Site Planner*
 Spatial Analyst*
 Surveyor
 Teacher/Professor*
 Water Resources Manager*
 *Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Apply the scientific method.
2. Demonstrate spatial literacy.
3. Analyze spatial information and patterns.
4. Evaluate relationships between humans and the environment.
5. Employ geoscience technology for spatial data management.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Geography 104	Introduction to Geographic Information Science	3
Geography 120	Elements of Physical Geography	3
Geography 121	Physical Geography Laboratory	1
Geography 130	Human and Cultural Geography	3
Geography 140	Introduction to Meteorology	3
Geography 150	Field Study of the Natural History of the Greater San Diego Region	3
Geography 170	The Geography of California	3
Geology 110	Planet Earth	3
	Total Required	22
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Geography 172	Field Exploration: Colorado Plateau	3
Geography 173	Field Exploration: Cascade Range/Modoc Plateau	3
Geography 174	Field Exploration: Basin and Range Province	3
Geography 175	Field Exploration: California Coastal Mountains	3
Geography 176	Field Exploration: Sierra Nevada	3
Mathematics 150	Introduction to Computer Programming Applications in Mathematics	3
Mathematics 160	Elementary Statistics	4
	Three semesters of a foreign language or high school equivalency	15



Associate Degree
for Transfer™

ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER (A.S.-T)

The Associate in Science in Geology for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 27 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Geology for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Geology is the scientific study of the planet earth. Geologists study the origin and evolution of the earth and various life forms, the composition of the earth, its structure, and the many processes that modify the earth's crust. Geology is an interdisciplinary science with many applied aspects including: the study of natural resources

such as water, petroleum, and minerals; the mitigation of earth's hazards such as earthquakes, landslides, and volcanoes; and land use planning. Students who are curious about our planet and its environment, and want to meet the challenges presented by the interaction of humans with the earth should consider geology as a major.

The Earth Sciences Department strives to impart the following **Program-level Student Learning Outcomes (PSLOs)** through the successful completion of the specific degree requirements in this program. Students will:

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

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Geology 110*	Planet Earth	3
Geology 111*	Planet Earth Laboratory	1
Geology 121*	Earth History	4
Chemistry 141*	General Chemistry I	5
Chemistry 142*	General Chemistry II	5
Math 180*	Analytic Geometry & Calculus I	5
Math 280*	Analytic Geometry & Calculus II	4
	Units for the major	27
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

GEOLOGY

Geology is the scientific study of the planet earth. Geologists study the origin and evolution of the earth and various life forms, the composition of the earth, its structures, and the many processes which modify the earth's crust. Geology is an interdisciplinary science with many applied aspects including: the study of natural resources such as water, petroleum, and minerals; the mitigation of earth's hazards such as earthquakes, landslides, and volcanoes; and land use planning. Students who are curious about our planet and its environment, and want to meet the challenges presented by the interaction of humans with the earth should consider geology as a major.

The curriculum leads to the Associate in Science degree in Geology and will prepare students for upper division coursework at a baccalaureate institution. However, it is recommended that students consult the catalog of the transfer institution for specific course requirements.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Engineering Geologist*
 Environmental Geologist*
 Geochemist*
 Geology Assistant
 Geophysicist*
 Hydrogeologist*
 Marine Geologist*
 Mineralogist*
 Oceanographer*
 Paleobotanist/Paleontologist*
 Petroleum Geologist*
 Petrologist*
 Seismologist*
 Soils Technician
 Teacher/Professor*
 Volcanologist*
 Waste Management Geologist*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

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

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Geology 110	Planet Earth	3
Geology 111	Planet Earth Laboratory	1
Geology 121	Earth History	4
Mathematics 180	Analytic Geometry & Calculus I	5
	Total	23

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Biology 120	Principles of Biology	4
Mathematics 280	Analytic Geometry & Calculus II	4
Physics 140	Mechanics of Solids	4
Physics 240	Electricity, Magnetism & Heat	4
	Total	8

Select a minimum of SIX (6) units from the following:

Subject & Number	Title	Units
Geography 104	Introduction to Geographic Information Science (GIS)	3
Astronomy 110	Descriptive Astronomy	3
Geography 120	Elements of Physical Geography	3
Geography 140	Introduction to Meteorology	
Geology 150	Field Study of the Natural History of the Greater San Diego Region	3
Geology 162	Geologic Field Studies: Southern California Mountain Areas	1
Geology 163	Geologic Field Studies: Mojave Desert and Adjacent Areas	1
Geology 164	Geologic Field Studies: Southern California Coastal Areas	1
Geology 165	Geologic Field Studies: Colorado Desert/Salton Trough Area	1
Geology 172	Field Exploration: Colorado Plateau	3
Geology 173	Field Exploration: Cascade Range/Modoc Plateau	3
Geology 174	Field Exploration: Basin and Range Province	3
Geology 175	Field Exploration: California Coastal Mountains	3
Geology 176	Field Exploration: Sierra Nevada	3
Geology 210	Geology of California	4
Geology 220	Geology of National Parks	4
Geology 230	Natural Disasters	3
Oceanography 112	Introduction to Oceanography	3
Oceanography 113	Oceanography Laboratory	1
	Total	6
	Total Required	37
	Plus General Education and Elective Requirements	

GERMAN

This program is designed to provide students with skills in understanding, speaking, reading, and writing German. It also gives students a greater understanding of German culture and civilization and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken, and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of Foreign Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Diplomatic Officer*
 Foreign Correspondent*
 Foreign Exchange Clerk
 Foreign Service Officer
 Intelligence Specialist*
 Interpreter/Translator*
 Immigration Inspector
 Journalist*
 Teacher/Professor*
 Public Relations Specialist*
 *Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health, and well-being, professions and occupations, the arts, current events, and politics.
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city, life, health and well-being, professions, and the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
German 120	German I	5
German 121	German II	5
German 220	German III	5
German 221	German IV	5
German 250	Conversational German I	3
German 251	Conversational German II	3
History 106 or	Modern Western Civilization	3
Humanities 120	European Humanities	(3)
	Total Required	29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in German. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER (A.A.-T)

The Associate in Arts in History for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. A total of 18-20 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog).

History is the study of the human past. As a discipline, history remains a chief foundation within the humanities and social sciences. Its broad and interdisciplinary approach offers many theoretical and practical applications for interpreting and understanding human

society. The study of history emphasizes reading, writing, critical thinking, research, thesis formulation, and debate. The history major prepares students to transfer to a four-year institution for continued and advanced study in the field of history or its related disciplines. In turn, a major in history provides knowledge and training for planning careers in history, education, law, archival work, historic sites and museums, library studies, journalism, research, documentary filmmaking, government, non-profit organizations, record and information management.

The following requirements must be met to be awarded an Associate Degree in History for Transfer (A.A.-T):

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will be able to:

1. Analyze and synthesize primary and secondary source documents in response to an historical thesis or question.
2. Explain relationships between the causes of historical events and their effects.
3. Describe historical actors and events and explain their significance in historical and historiographical context.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Associate Major Degree Requirements

Required Core

Subject & Number	Title	Units
History 108*	Early American History	3
History 109*	Modern American History	3
	Total	6
List A:		
Select TWO (2) of the following courses:		
History 100*	Early World History	3
or		
History 105*	Early Western Civilization	(3)
and		
History 101*	Modern World History	3
or		
History 106*	Modern Western Civilization	(3)
	Total	6

List B:

Select ONE (1) course from GROUP B1 and ONE (1) course from GROUP B2 for a total of 6-8 units:

Group B1 includes all of the following options:

A foreign language course which is articulated as fulfilling CSU GE Area C2 **OR** a course not already used in List A **OR** a diversity course listed below:

Subject & Number	Title	Units
History 103*	Twentieth Century World History	3
History 114*	Comparative History of the Early Americas	3
History 115*	Comparative History of the Modern Americas	3
History 118*	U.S. History: Chicano/Chicana Perspectives I	3
History 119*	U.S. History: Chicano/Chicana Perspectives II	3
History 122*	Women in Early American History	3
History 123*	Women in Modern American History	3
History 130*	U.S. History and Cultures: Native American Perspectives I	3
History 131*	U.S. History and Cultures: Native American Perspectives II	3
History 137*	History of East Asia	3
History 148*	Emergence of the Modern Middle East	3
History 154*	Early History of Women in World Civilization	3
History 155*	Modern History of Women in World Civilization	3
History 180*	U.S. History: Black Perspectives I	3
History 181*	U.S. History: Black Perspectives II	3

Group B2

Select ONE (1) course not already used in the Required Core or List A.

Subject & Number	Title	Units
History 103*	Twentieth Century World History	3
History 105*	Early Western Civilization	3
History 106*	Modern Western Civilization	3
History 113*	American Military History	3
History 114*	Comparative History of the Early Americas	3
History 115*	Comparative History of the Modern Americas	3
History 118*	U.S. History: Chicano/Chicana Perspectives I	3
History 119*	U.S. History: Chicano/Chicana Perspectives II	3
History 122*	Women in Early American History	3
History 123*	Women in Modern American History	3
History 124*	History of California	3
History 126*	History of Mexico	3
History 130*	U.S. History and Cultures: Native American Perspectives I	3

History 131*	U.S. History and Cultures: Native American Perspectives II	3
History 135*	Ancient History of Western Civilization	3
History 136*	Survey of Medieval History	3
History 137*	History of East Asia	3
History 148*	Emergence of the Modern Middle East	3
History 154*	Early History of Women in World Civilization	3
History 155*	Modern History of Women in World Civilization	3
History 180*	U.S. History: Black Perspectives I	3
History 181*	U.S. History: Black Perspectives II	3
	Total	3
	Units for the major	18-20
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

HOSPITALITY AND TOURISM MANAGEMENT

The Hospitality and Tourism Management major provides students with a solid undergraduate program emphasizing basic business management principles and their specific application to the hospitality and tourism industry. Students completing the program are prepared to transfer to a Bachelor of Science program at a four-year institution.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Airline Reservation Agent
Executive Housekeeper
Flight Attendant +
Front Office Manager +
Golf/Country Club Manager *
Hotel Manager/Supplier *
Public Relations Specialist *
Restaurant Manager *
*Bachelor's Degree or higher required.
+Bachelor's Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Identify the many market segments of the tourism and hospitality industry and discuss the key management issues related to the industry.
2. Apply best business management practices in ethical decision making in the hospitality and tourism industry workplace.
3. Describe and apply total quality management principles in the hospitality and tourism industry situations.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 128	Business Communication	3
Business 158	Introduction to Hospitality and Tourism Management	3
Business 160	Hospitality Managerial Accounting and Controls	3
Business 166	Hospitality & Tourism Law	3
Computer Science Info. Systems 110	Principles of Information Systems	4
Economics 120	Principles of Macroeconomics	3
Economics 121	Principles of Microeconomics	3
Mathematics 160	Elementary Statistics	4
Mathematics 178	Calculus for Business, Social and Behavioral Science	4
	Total Required	34
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Hospitality Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

INTERNATIONAL BUSINESS

The International Business program is designed to prepare students with the background and technology necessary to work in a business engaged in international trade. The curriculum is also of value to the individual who is planning to start his/her own import/export business. Internships in local international trade organizations are an important part of the program.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Broker
Customs Broker
Freight Forwarder
Import-Export Agent
Import-Export Specialist
International Finance & Accounting
International Law
International Planning & Management
International Purchasing & Management

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Evaluate and decide international business courses of action by applying academic and practical knowledge/skills acquired in international business, international marketing, international finance and international logistic courses.
2. Compose a successful marketing plan by the correct analysis of quantitative and qualitative international economic and market indicators.
3. Select the most cost effective and timely methods of international product delivery utilizing contemporary

logistic to achieve profitability and customer satisfaction.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 250	Introduction to International Business	3
Business 251	Import/Export Procedures	2
Business 252	Global Sourcing, Buying and Manufacturing	1.5
Business 253	International Marketing: Expanding Exports	3
Business 256	International Financial Transactions	2
Business 257	International Transportation	1.5
Business 258	The Cultural Dimension in International Business	3
	Total	20

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Business 121	Managerial Accounting	4
Business 140	Entrepreneurship: Developing a Business Plan	3
Business 146	Marketing	3
Business 265A-B-C-D or Business 266 or Business 267	Internship in International Business	1 (2)
	Internship in International Business	(3)
	Total	4-7

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Communication 124	Intercultural Communication	3
French 152	The French Speaking World: A Cultural Perspective	3
Geography 130	Human and Cultural Geography	3
History 137	History of East Asia	3
History 147	Middle East History and Culture	3
Humanities 130	East Asian Humanities	3
Spanish 141 or ONE (1) course in any foreign language	Spanish & Latin American Culture	3
	Total	3-5
	Total Required	27-32
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in International Business. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

JAPANESE

This program is designed to provide students with skills in understanding, speaking, reading, and writing Japanese. It also gives students a greater understanding of Japanese culture and civilization and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken, and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of World Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising
Bilingual Aide
Foreign Correspondent*
Foreign Broadcast Specialist*
Import-Export Agent
In-Country Representative
Intelligence Specialist
Journalist*
Manufacturer's Representative
Sales Person
Scientist Linguist
Teacher/Professor*
Translator/Interpreter*
Travel Agent
United Nations Guide
*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health, and well-being, professions and occupations, the arts, current events, and politics.
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city, life, health and well-being, professions, and occupations, the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Japanese 120	Japanese I	5
Japanese 121	Japanese II	5
Japanese 220	Japanese III	5
Japanese 221	Japanese IV	5
Japanese 250	Conversational Japanese I	3
Japanese 251	Conversational Japanese II	3
	Total	26

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Cross-Cultural Studies 149	Japanese Culture and Civilization	3
or		
Japanese 149	Japanese Culture and Civilization	(3)
History 137	History of East Asia	3
	Total Required	29
	Plus General Education and Elective Requirements	



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN JOURNALISM FOR TRANSFER (A.A.-T)

The Associate in Arts in Journalism for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18-19 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Journalism for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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) Obtaining of a minimum grade point average of 2.0. Students are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis. A "Pass" grade is not an acceptable grade for courses in the major.

The Associate in Arts in Journalism for Transfer Degree (A.A.-T) will provide students with the lower division core courses required for bachelor-level study in the discipline. A degree in journalism offers graduates a variety of career paths in such fields as print and TV/Radio broadcast news, social media editors, news management, copy editing, internet news, digital communications, public relations. It also serves as an excellent foundation for fields such as politics, education, management, and information production and dissemination. The program is designed to meet lower division requirements for transfer.

The Associate in Arts in Journalism for Transfer (A.A.-T) degree will fulfill the mission of both Grossmont College and the community college system by providing a specific

group of baccalaureate-level courses that will meet lower division degree requirements in the discipline and allow for seamless transfer to the California State University and University of California systems.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Employ their discipline knowledge and skill sets: i.e. Define and execute newsgathering strategies; Develop interview questions and conduct interviews; Write news leads; Write simple and complex/long form news articles using the inverted pyramid and other media formats; Write articles under deadline; Apply Associated Press style to articles; Edit own and others' articles for proper spelling, grammar and AP Style; Define writing differences for different platforms.
2. Demonstrate knowledge of journalism articles for print, online, broadcast, multimedia and social media formats.

Associate Degree in Journalism for Transfer Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Media Communications 110*	Mass Media and Society	3
Media Communications 112	Media News Writing	3
Media Communications 132A	Media News Practicum I	3
	Total	9

List A

Select ONE (1) of the following courses:

Media Communications 132B	Media News Practicum II	3
Media Communications 212	Multimedia Reporting	3

List B

Select TWO (2) of the following courses:

Anthropology/Psychology / Sociology 215*	Statistics for the Behavioral Sciences	4
or Mathematics 160*	Elementary Statistics	(4)
Communication 137*	Critical Thinking in Group Communication	3
Communication 145*	Argumentation	3
Economics 120*	Principles of Macroeconomics	3
or Economics 121*	Principles of Microeconomics	(3)
English 124*	Advanced Composition: Critical Reasoning and Writing	3
Photography 150	Introduction to Photography	3
Philosophy 130*	Logic	3
Political Science 121*	Introduction to US Government and Politics	3
	Total	6-7
Units for the major		18-19
Units for CSU GE or IGETC-CSU GE		37-39
Total units required for the degree		60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

MANAGEMENT

The management curriculum is designed to provide the student with the skills necessary for success as a manager in today's demanding organizational climate. The program is of benefit to the man or woman who aspires to a mid-level or higher management position in any type of organization including business, government and service organizations. Since much of the curriculum is transferable to four-year institutions, the program not only provides readily usable management skills for the two-year student, but it also provides a base for those students who later wish to undertake more advanced study in business.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Claim Adjuster+
Employment Interviewer
Inventory Manager
Management Analyst*
Management Consultant*
Management Trainee
Operations Manager
Office Manager+
Production Controller+
Trust Officer, Bank*

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Recognize the effects of globalization on the functions of management such as planning, organizing, leading and controlling.
2. Discuss and explain the issues affecting businesses today ethics, diversity, time management, the global economy, communications and group dynamics.
3. Identify and apply ways to positively initiate change in today's diverse and challenging work environment while focusing on core competencies.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 115	Human Relations in Business	3
Business 120	Financial Accounting	4
Business 125	Business Law: Legal Environment of Business	3
Business 128	Business Communication	3
Business 155	Human Resources Management	3
Business 156	Principles of Management	3
Communication 122	Public Speaking	3
	Total	22

Select FOUR (4) units from the following courses:

Subject & Number	Title	Units
Business 176	Computerized Accounting Applications	2
Business Office Technology 172	Introduction to Microcomputer Applications	2
Computer Science Info. Systems 110	Principles of Information Systems	4
Computer Science Info. Systems 175	Microsoft Excel	3
	Total	4

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Business 118	Retail Management	3
Business 121	Managerial Accounting	4
Business 142	Personal Selling & Persuasion	3
Business 144	Advertising	3
Business 146	Marketing	3
Business 159A-B-C-D	Management Internship	3
Economics 120	Principles of Macroeconomics	3
	Total	3-4
	Total Required	29-30
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

MARKETING

Marketing consists of all the activities that direct the flow of goods and services from producer to consumer. This may include market research, physical distribution, wholesaling, advertising, personal selling, and retailing. Although most jobs are in wholesale and retail trade, this broad field offers many employment opportunities. The internship experience is an important feature of the program.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Account Executive*
Advertising Manager*
Booking Agent
Claim Adjustor+
Consumer Affairs Director*
Financial Planner*
Import-Export Agent+
Internal Revenue Investigator*
Management Trainee
Marketing Manager+
Purchasing Agent
Retail Manager
Securities Trader*
Stockbroker*

*Bachelor's Degree or higher required.

+Bachelor Degree normally recommended.

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize marketing analysis and strategy to identify marketing opportunities.
2. Define ideal target markets for broad industries as well as specific products and services, utilizing demographic and psychographic descriptions.
3. Develop effective promotional mix strategies for specific products and services, and their related target markets.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 120	Financial Accounting	4
Business 125	Business Law: Legal Environment of Business	3
Business 128	Business Communication	3
Business 146	Marketing	3
Business 156	Principles of Management	3
Business Office Technology 172	Introduction to Microcomputer Applications	2
	Total	18

Select THREE (3) of the following courses:

Subject & Number	Title	Units
Business 118	Retail Management	3
Business 142	Personal Selling and Persuasion	3
Business 144	Advertising	3
Business 252	Global Sourcing, Buying and Manufacturing	1.5
Business 253	International Marketing: Expanding Exports	3
	Total	7.5-9

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Business 115	Human Relations in Business	3
Business 137 A-B-C-D	Marketing Internship	3
Business 140	Entrepreneurship: Developing a Business Plan	3
Business 250	Introduction to International Business	3
Business 258	The Cultural Dimension of International Business	3
	Total	3
	Total Required	28.5-30
	Plus General Education Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Marketing. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER (A.S.-T)

The Associate in Science in Mathematics for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. A total of 19-20 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Mathematics for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Mathematics has become essential and pervasive in the workplace. The study of mathematics provides a foundation for problem solving and logical reasoning skills. In today's highly technological society, the study of mathematics has become increasingly important. The Associate in Science degree in Mathematics offers a solid foundation for further study in mathematics and other mathematics-related fields. The primary emphasis of the mathematics major program is to prepare students for transfer to four-year institutions. Students should consult the catalog of the transfer school being considered for its specific requirements.

The Mathematics Department strives to impart the following **Program-level Student Learning Outcomes (PSLOs)** through the successful completion of the degree requirements. Students will:

1. Use appropriate theorems, formulas, and algorithms to solve mathematical problems from algebra, trigonometry, calculus and geometry.
2. Use appropriate technology to solve problems requiring mathematics.
3. Formulate, analyze, and differentiate mathematical functions numerically, graphically and symbolically and transition between these representations.
4. Communicate the mathematical process and assess the validity of the solution.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core:

Subject & Number	Title	Units
Mathematics 180*	Analytic Geometry and Calculus I	5
Mathematics 280*	Analytic Geometry and Calculus II	4
Mathematics 281*	Multivariable Calculus	4
	Total	13

List A:

Mathematics 284*	Linear Algebra	3
	Total	3

List B:

Select ONE (1) course from the following:

Mathematics 160*	Elementary Statistics	4
Mathematics 245*	Discrete Mathematics	3
Mathematics 285*	Differential Equations	3
Physics 140*	Mechanics of Solids	4
Computer Science	Introduction to Java	
Information Systems 293	Programming	4
Computer Science	Introduction to C++	
Information Systems 296	Programming	4
	Total	3-4
	Units for the major	19-20
	Units for CSU	
	GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

MATHEMATICS

The mathematics major offers a foundation for further study in mathematics and other mathematics-related fields. The emphasis of the program is to prepare the students for transfer to four-year institutions.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Accountant*
 Actuary*
 Budget Analyst*
 Data Processing Manager
 Department Head, College*
 Economist*
 Engineer*
 Financial Planner*
 Insurance Agent/Broker+
 Loan Officer
 Management Trainee
 Market Research Analyst*
 Mathematical Biologist, Bioinformatics*
 Operations Research Analyst*
 Mathematician*
 Securities Trader*
 Statistician*
 Surveyor
 Teacher*
 *Bachelor's Degree or higher required.
 +Bachelor Degree normally recommended.

The Associate in Science degree in Mathematics offers a solid foundation for further study in mathematics and other mathematics-related fields. The primary emphasis of the mathematics major program is to prepare the students for transfer to four-year institutions. Students should consult the catalog of the transfer school being considered for its specific requirements.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Use appropriate theorems, formulas, and algorithms to solve mathematical problems from algebra, trigonometry, calculus and geometry.
2. Use appropriate technology to solve problems requiring mathematics.
3. Formulate, analyze, and differentiate mathematical functions numerically, graphically and symbolically and transition between these representations.
4. Communicate the mathematical process and assess the validity of the solution.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Mathematics 180	Analytic Geometry & Calculus I	5
Mathematics 280	Analytic Geometry & Calculus II	4
Mathematics 281	Multivariable Calculus	4
Mathematics 284	Linear Algebra	3
	Total	16

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Mathematics 160	Elementary Statistics	4
Mathematics 245	Discrete Math	3
Mathematics 285	Differential Equations	3
Physics 140	Mechanics of Solids	4
Computer Science	Introduction to Java	
Information Systems 293	Programming	4
Computer Science	Introduction to C++	
Information Systems 296	Programming	4
	Total	3-4
	Total Required	19-20
	Plus General Education and Elective Requirements	

MEDIA COMMUNICATIONS

The Department of Media Communications curriculum serves two purposes:

1. The Media Communications curriculum brings to the student an awareness of the impact of communications technology and programming in our daily lives and on society as a whole. We are experiencing a revolution in information availability and the expertise of media in manipulating that information. Most members of society remain unaware of the pervasive nature of this influence even though it has become a constant in their lives. The Department of Media Communications aims to make students more thoughtful consumers of mass media.
2. The courses offered in Media Communications are also designed to give students a working knowledge of the concepts, values, theoretical understanding,

operational skills, rapidly developing technology, and experience necessary to succeed as competent professional communicators in the fields represented by the curriculum: Audio Production, Video Production, and Cross-Media Journalism.

The Department of Media Communications at Grossmont College enjoys a statewide and national reputation for excellence. The faculty, both full-time and adjunct, have been carefully chosen for their many years of experience both in their fields and in the classroom. The career opportunities for majors in this department include positions in newspapers, news agencies, public relations, commercial and non-commercial television, radio, business and industry non-broadcast applications, videoconferencing, video production studios, education, and the burgeoning fields of digital communications and multi-media, to name but a few.

Students may elect a program from these three areas: Audio Production, Video Production, or Cross-Media Journalism. The programs are designed to meet lower division transfer requirements or job entry requirements, depending on the goals of the student.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Anchorman/Newscaster

Audiovisual Specialist

Camera Operator

Cinematographer*

Engineering Technician

Instructional Media Specialist

Lighting Director

News Director*

Print Journalist*

Production Assistant*

Technical Director*

Videographer

World Wide Web Journalist

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below is an outcome that students will achieve after completing specific degree/certificate requirements in this program. Students will analyze the functions and roles of mass media in US society.

Associate Degree Major Requirements

Core Curriculum

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Media Communications 105	Introduction to Electronic Media	3
Media Communications 110	Mass Media and Society	3
Media Communications 112	Introduction to Reporting and News Writing	3
Media Communications 116	Introduction to Audio Production	3
Media Communications 117	Television Studio Operations	4
	Total	16

Note: Students must choose at least one area of emphasis.

Area of Emphasis

Audio Production

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Media Communications 113	Media Announcing	3
	Total	3

Select THREE (3) units from the following courses:

Media	Communications 151	Electronic Media Internship I	1
Media	Communications 153	Electronic Media Internship II	2
Media	Communications 155	Electronic Media Internship III (3)	
		Total	3

Select ONE of the following sequences:

Subject & Number	Title	Units
Media Communications 119A	Fundamentals of Radio Broadcasting	3
Media Communications 119B	Fundamentals of Radio Broadcasting	3
Media Communications 119C	Fundamentals of Radio Broadcasting	3
or		
Media Communications 216A	Audio Multitrack Production I	(3)
Media Communications 216B	Audio Multitrack Production II	(3)
Media Communications 216C	Audio Multitrack Production III	(3)
	Total	9
	Total Required	31
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Media Communications 111	Introduction to Media Aesthetics and Cinematic Arts	3
Media Communications 118	Media Script Writing	3

Area of Emphasis

Cross-Media Journalism

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Media Communications 113	Media Announcing	3
Media Communications 118	Media Script Writing	3
Media Communications 119A	Fundamentals of Radio Broadcasting	3
	Total	9

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Media Communications 132A	Media News Practicum I	3
Media Communications 132B	Media News Practicum II	(3)
Media Communications 132C	Media News Practicum III	(3)
	Total	3

Select THREE (3) units from the following courses:

Subject & Number	Title	Units
Media Communications 151	Electronic Media Internship I	1
Media Communications 153	Electronic Media Internship II	2
Media Communications 155	Electronic Media Internship III (3)	
	Total	3
	Total Required	31
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Media Communications 111	Introduction to Media Aesthetics and Cinematic Arts	3

Area of Emphasis

Video Production

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Media Communications 111	Introduction to Media Aesthetics and Cinematic Arts	3
Media Communications 118	Media Script Writing	3
Media Communications 120	Single Camera Video Cinematography	3
	Total	9

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Media Communications 230	Digital Program Production I	3
Media Communications 231	Digital Program Production II (3)	
	Total	3

Select THREE (3) units from the following courses:

Subject & Number	Title	Units
Media Communications 151	Electronic Media Internship I	1
Media Communications 153	Electronic Media Internship II	2
Media Communications 155	Electronic Media Internship III (3)	
	Total	3
	Total Required	31
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Theatre 110	Introduction to the Theatre	3

Certificate of Achievement

Any student who chooses to complete only the requirements for one of the areas of emphasis plus the Media Communications core curriculum qualifies for a Certificate of Achievement in:

- Media Communications – Audio Production
- Media Communications – Cross-Media Journalism
- Media Communications – Video Production

An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

MULTIMEDIA

This interdisciplinary program meets the needs of students desiring to enter the multimedia field. Students completing the requirements in the major will be prepared to assume multimedia jobs in the following areas: visual effects and entertainment, business, education, and software and web development. All students, whether their goal is a degree or a certificate, will take an interdisciplinary, introductory multimedia course, followed by a series of courses in an area of emphasis. The program of study will conclude with an interdisciplinary multimedia course that is team-based and project oriented. Students will be required to complete an internship along with the final multimedia course. Students will become multimedia specialists in one or more areas of emphasis: software development, video, visual design, and web authoring.

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Function as part of a multimedia development team.
2. Produce/author DVDs utilizing audio, video, graphic and typographic content.
3. Understand the specific language needed to communicate with all professional aspects represented in the Multimedia field.

Associate Degree Major Requirements

Core Curriculum

Note: All courses in the major must be completed with a "C" grade or higher.

Subject & Number	Title	Units
Multimedia 190	Digital Multimedia I	4
Multimedia 192	Digital Multimedia II	4
Multimedia 196	Multimedia Internship	2
or		
Multimedia 197	Multimedia Internship (3)	
	Total	10-11

Area of Emphasis

Software Development

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Computer Science Info. Systems 114	Small Computer Systems	3
Computer Science Info. Systems 119	Introduction to Computer Programming	3
Computer Science Info. Systems 293	Introduction to Java Programming	4
Computer Science Info. Systems 296	Introduction to C++ Programming	4
Computer Science Info. Systems 297	Intermediate C++ Programming	4
	Total	18
	Total Required	28-29
	Plus General Education and Elective Requirements	

Area of Emphasis Video

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Media Communications 117	Television Studio Operations	4
Media Communications 118	Media Script Writing	3
Media Communications 120	Single Camera Video Cinematography	3
Media Communications 230	Digital Program Production I	3
	Total	13
	Total Required	23-24
	Plus General Education and Elective Requirements	

Area of Emphasis Visual Design

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Art 100	Art Appreciation	3
Art 124	Drawing I	3
Art 171	Introduction to Digital Art	3
Art 175	Digital Imaging and Art	3
Photography 150	Introduction to Photography	3
	Total	15

Select One (1) of the following courses:

Art 172	Interactive Media Art	3
Art 177	Digital Drawing and Painting	3
Art 184	Drawing for Animation	3
	Total	3
	Total	18
	Total Required	28-29
	Plus General Education and Elective Requirements	

Area of Emphasis Web Authoring

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Computer Science Info. Systems 132	Web Development Fundamentals	3
Computer Science Info. Systems 133	Introduction to Dreamweaver	3
Computer Science Info. Systems 135	Javascript Programming	3
Computer Science Info. Systems 151	Introduction to Photoshop	3
	Total	12
	Total Required	22-23
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the Multimedia core curriculum plus one of the areas of emphasis qualifies for a Certificate of Achievement in that area. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



ASSOCIATE IN ARTS IN MUSIC FOR TRANSFER (A.A.-T)

The Associate in Arts in Music for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18 units are required to fulfill the major portion of this degree. Students must also complete the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Music for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) for CSU.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Music is the study of art, space, and silence through time. The art of arranging sounds or making sounds, usually those of musical instruments or voices. Musical language may be used to mean style or genre, while music may be treated as language without being called such. The study of music offers a secure foundation for exploration into these areas. Furthermore, studying music enables students to obtain careers as performers, educators, composers, and music industry professionals. Students will pursue the art and beauty of music while honing the interpersonal and communication skills that are crucial to every career.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing the specific degree requirements in this program. Students will:

1. Apply the terminology associated with the language of music.
2. Correlate significant events and trends in music history with significant events and trends in world history.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core:

Subject & Number	Title	Units
Music 105	Music Theory and Practice I	4
Music 106	Music Theory and Practice II	4
Music 205	Music Theory and Practice III	4
Music 206	Music Theory and Practice IV	4
Music 190	Performance Studies	.5
Music 191	Performance Studies	.5
Music 290	Performance Studies	.5
Music 291	Performance Studies	.5
	Total	18

Choose FOUR (4) of the following courses:

Subject & Number	Title	Units
Music 138-139-238-239	Grossmont Master Chorale	1
Music 148-149-248-249	Classical Guitar Ensemble	1
Music 150-151-250-251	Grossmont Symphony Orchestra	1
Music 152-153-252-253	Concert Band	1
Music 154-155-254-255	Afro-Cuban Ensemble	1
Music 156-157-256-257	Jazz Ensemble	1
Music 166-167-266-267	Jazz Vocal Ensemble	1
Music 174-175-274-275	Gospel Choir	1
	Total	4
	Units for the major	22
	Units for CSU GE or IGETC-CSU GE	37
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

MUSIC

The music major offers a secure foundation for further study in music. The primary emphasis of the program is to prepare students for transfer to four-year institutions. In addition to the required and elective courses, music students are expected to participate in at least one performing organization each semester.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Arranger*
Conductor*
Critic*
Instrumentalist
Music Director*
Music Instructor*
Music Therapist*
Performer, Vocalist
Piano Tuner
Recording Engineer*
Teacher/Professor*
*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Apply the terminology associated with the language of music.
2. Correlate significant events and trends in music history with significant events and trends in world history.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Music 105	Music Theory & Practice I	4
Music 106	Music Theory & Practice II	4
Music 132	Class Piano I	3
Music 133	Class Piano II	3
	Total	14

Area of Emphasis Classical Studies

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Music 190	Performance Studies	.5
Music 191	Performance Studies	.5
Music 205	Music Theory and Practice III	4
Music 206	Music Theory and Practice IV	4
Music 232	Class Piano III	3
Music 233	Class Piano IV	3
Music 290	Performance Studies	.5
Music 291	Performance Studies	.5
	Total	16

Select FOUR (4) units from any other music courses:

Total	4
Total Required	34
Plus General Education and Elective Requirements	

MUSICAL THEATRE

The primary focus of the Musical Theatre Program is to provide technical and practical musical theatre training in all aspects of Musical Theatre and to assist students in completing lower division requirements in preparation for transfer to baccalaureate level institutions. Secondarily the curriculum prepares students for entry-level employment in professional and community theatre as they pursue their degree objectives.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Actor/Actress*
Dancer+
Director of Audience Development*
Musician+
Performers*
Production Assistant*
Song Writers+
Sound Technician*
Theatrical Agent*
*Bachelor's Degree or higher required.
+Bachelor's Degree normally recommended.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate an appreciation of learning and create a diverse aesthetic for Musical Theatre and its place in culture and society.
2. Participate in high quality, accessible musical theatre productions and present them at a reasonable cost for our students and the community at large.
3. Understand the proper artistic conduct in all academic and professional musical theatre environments.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Dance 080A or B or C or D	Modern I or II or III or IV	1.5
Dance 081A	Tap I	1.5
Dance 084A or B or C or D	Jazz I or II or III or IV	1.5
Dance 088A or B or C or D	Ballet I or II or III or IV	1.5
Dance 095	Musical Theatre Dance	1.5
Dance 205 or 206	Modern Dance Improvisation and Choreography I or II	2
Music 105 or 106	Music Theory and Practice I or II	4
Music 132 or 133	Class Piano I or II	3
Music 170	Class Voice	2
Music 171	Class Voice	2
Theatre 110	Introduction to the Theatre	3
Theatre 122A or B or C or D	Theatre Workshop Laboratory: Acting I or II or III or IV	1
Theatre 123A or B or C or D	Theatre Workshop Laboratory: Construction I or II or III or IV	1
Theatre 124A or B or C or D	Theatre Workshop Laboratory: Production Crew I or II or III or IV	1
Theatre 130	Acting I	3
Theatre 131	Acting II	3
Theatre 234 A or B	Fundamentals of Musical Theatre – Performance I or II	3
Theatre 235 A or B	Fundamentals of Musical Theatre – Scene and Song I or II	3
	Total	38.5

Select TWO (2) of the following courses:

Theatre 102A or B or C or D	Theatre Production Practicum: Costumes I or II or III or IV	2
Theatre 103A or B or C or D	Theatre Production Practicum: Sets I or II or III or IV	2
Theatre 104A or B or C or D	Theatre Production Practicum: Lighting/Sound I or II or III or IV	2
Theatre 111A or B or C or D	Rehearsal and Performance: Acting I or II or III or IV	2
Theatre 112A or B or C or D	Rehearsal and Performance: Stage Management I or II or III or IV	2
Theatre 113A or B or C or D	Rehearsal and Performance: Production Crew I or II or III or IV	2
	Total	4
	Total Required	42.5
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above under Musical Theatre core curriculum qualifies for a Certificate of Achievement. An official request must be filled with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

NURSING

See page 16 for special admission procedures and criteria.

As defined by the American Nurses Association, professional nursing is the diagnosis and treatment of human responses to actual and high-risk health problems. The Associate Degree Registered Nursing program at Grossmont College prepares men and women for national licensure to practice professional nursing in critical, acute, chronic, ambulatory and home health-care settings. For students without previous nursing education, the nursing courses cover four semesters in addition to the prerequisite courses required to apply. Nursing didactic is coordinated with laboratory experience in local hospitals and health agencies under the supervision of nursing faculty members. In addition to the nursing courses, the major requires selected general education courses from the natural, behavioral and social sciences.

Admission Information:

Students are admitted to the Nursing Program based on a multi-criteria selection process. The multi-criteria selection includes the following criteria: GPA in the required sciences and general education Nursing major requirements, previous degrees or certifications, life experiences, proficiency in a California State Chancellor's office approved second language, and the individual composite score for the Test of Essential Academic Skills exam. A 2.5 GPA is the minimum requirement for the science and general education courses.

California Licensed Vocational Nurses are eligible to apply for a 3-semester LVN-RN Transition Program. Upon successful completion of Nursing 130, LVN-RN transition students will receive 8 units of credit for Nursing Fundamentals and 5 units of credit for Pediatrics and Obstetrical nursing after successfully completing Nursing 220 and 222.

Upon completion of all degree requirements, the graduate is eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Graduates of the ADN program are also eligible to transfer into a BSN Program upon completion of the program.

IMPORTANT: Any prior conviction of a misdemeanor or felony may influence eligibility for licensure as a Registered Nurse. A flagged background check or drug screen may also prohibit participation in the nursing program. Applicants with prior convictions are required to contact the Director of Nursing for confidential advisement and planning prior to applying to the program.

Application Period

In addition to applying to the college, an application for the nursing major is required and will only be accepted during the application periods specified on the Nursing Program website. A completed application with all required documentation and official transcripts must be submitted as a packet; transcripts should not be sent separately. Incomplete packets will not be considered for admission. No waitlist is maintained for the program however, for those applications not selected, the opportunity exist to reapply during future application periods.

All prospective nursing students must pass the Test of Essential Academic Skills exam (TEAS). This is a pre-entrance test that covers basic Math, Reading, English and Science. All applicants must pass the most recent TEAS version in order to apply to the program; no previous versions will be accepted. Students may prepare for this exam by going to the ATI testing website (<http://www.atitesting.com>). TEAS study guides and online practice exams are available for purchase through the website. <http://www.atitesting.com/Solutions/pre-program/teas.aspx>.

Under the multi-selection criteria, points given for the TEAS exam are only awarded for the first exam taken. Students who fail to achieve a passing score must remediate by completing additional pre-nursing course work as directed by the Nursing Department. TEAS exams taken prior to the required remediation will not be considered and may prohibit your ability to apply to the program; read the entire TEAS policy prior to taking the exam. TEAS policies, procedures and detailed information on remediation and repeating the exam can be found at <http://www.grossmont.edu/nursing/teastesting>. **Students are strongly advised to review the TEAS policy on the nursing program website PRIOR TO taking the TEAS exam.**

For all information on admission criteria, see the Nursing website at <http://www.grossmont.edu/nursing>.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Administrator*
 Clinic Nurse (Ambulatory Care)
 Critical Care Nurse*
 Emergency Room/ Lifeflight Nurse*
 Home Health Nurse*
 Hospital Staff Nurse
 Industrial Nurse
 Medical Researcher*
 Nurse Anesthetist*
 Nurse Midwife*
 Nurse Practitioner*
 Office Nurse
 Public Health Nurse*
 Teacher/ Educator*

*Additional education is required

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Provide caring, patient-centered, safe and holistic care that is culturally sensitive and utilizes critical thinking within the framework of the nursing process and evidence-based principles.
2. Communicate effectively when providing care for multicultural patients and effectively promote patient advocacy for patients and families with integrity.
3. Safely implement the professional nursing role as defined by the California Nurse Practice Act and the American Nurses' Association principles of ethical practice.
4. Engage in life-long learning as part of the professional commitment of the Registered Nurse role.

General Education Requirements For Nursing Majors

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

Competency Requirement

1. Competency in reading, writing, expression shown by achieving a "C" grade or higher or in courses listed under Area A, Section 1 – Written Communication.
2. Competency in Mathematics shown by either
 - a. Earning a grade of "C" or better, or "Pass," in Math 103 or a higher numbered mathematics course or
 - b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)

Note: All courses in the major must be completed with a letter grade of "C" or higher.

**Courses in bold print are required in the Nursing major.
Italicized courses are recommended for BSN/MSN transfer.**

Area A - Language and Rationality

Three courses (a minimum of nine units) are required in written communication, oral communication, and analytical thinking. At least ONE course must be taken from EACH of the following three sections:

1. Written Communication

Must be completed with a "C" grade or higher to satisfy the competency requirement.

English 120, 124

2. Oral Communication

Communication 122

3. Analytical Thinking

Competency in Mathematics shown by either

- a. Earning a grade of "C" or better, or "Pass," in Math 103 or a higher numbered mathematics course or*
- b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)*

Anthropology 215

Biology 215

Economics 215

Mathematics 103, 110, 120, 125, 126, 150, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285

Psychology 215

Sociology 215

Area B - Natural Sciences

Two natural science courses (a minimum of seven units) are required. Courses in **bold print** are required in the Nursing major. All required science courses for the Nursing Major must include a lab. Courses with an asterisk are laboratory only. Courses not containing a laboratory component are underlined.

Anthropology 130, 131*
 Astronomy 110, 112*, 120
Biology 140, 141, and 141L* or **144 and 145, 152, 105, 110, 112, 114, 118, 120, 230, 240**
 Chemistry 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241, 241L*, 242, 242L*
 Geography 120, 121*, 140
 Geology 104, 110, 111*, 121, 210, 220, 230
 Oceanography 112, 113*
 Physical Science 100, 110, 111*
 Physics 110, 130, 131, 140, 240, 241
 Science 110

Area C - Humanities

One humanities course (a minimum of three units) is required.

American Sign Language 120, 121, 140, 220, 221, 250
 Arabic 120, 121, 122, 123, 148, 220, 221, 250, 251
 Art 100, 120, 124, 126, 129, 140, 141, 142, 143, 145, 146, 147, 171, 189
 Chinese 120, 121, 220, 221, 250, 251
 Communication 135, 137, 144, 145
 Cross-Cultural Studies 122, 123, 126, 127, 134, 144, 147, 149, 152, 236, 237, 238
 Dance 110, 120
 English 112, 118, 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 241, 242, 275, 276, 277
 French 120, 121, 152, 220, 221, 250, 251
 German 120, 121, 220, 221, 250, 251
 History 100, 101, 103, 105, 106, 113, 126, 135, 136, 137, 148
 Humanities 110, 120, 125, 130, 135, 140, 160, 170
 Italian 120, 121, 220, 221, 250, 251
 Japanese 120, 121, 149, 220, 221, 250, 251
 Media Communications 111, 189
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155
 Photography 150, 154
 Religious Studies 120, 130, 140, 150, 170
 Russian 120, 121, 220, 221, 250, 251
 Spanish 120, 121, 122, 123, 141, 145, 220, 221, 250, 251
 Theatre Arts 101, 110, 130, 143, 144, 189

Area D - Social Sciences

One social science course (a minimum of three units) is required.

Administration of Justice 110
 Anthropology 120, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 128
 Cross-Cultural Studies 114, 115, 116, 118, 119, 124, 125, 128, 130, 131, 132, 133, 135, 145, 153, 154, 155, 180, 181
 Economics 110, 120, 121
 Family Studies 115, 120
 Geography 100, 101, 106, 130, 170
 Health Education 120, 155, 158, 159, 201
 Health Science 110
 History 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181

Media Communications 110
 Political Science 120, 121, 124, 130, 140, 150, 160
Psychology 120, 125, 132, 134, 138, 140, 170, 220
 Sociology 114 or **120**, 125, 130, 138, 140

**Major Requirements for All Nursing Majors
Registered Nursing Program****Associate Degree Major Requirements**

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Choose ONE (1) sequence from the following courses.

Subject & Number	Title	Units
Biology 140 and Biology 141 and Biology 141L	Human Anatomy Human Physiology Laboratory in Human Physiology	5 3 (1)
or Biology 144 and Biology 145 Biology 152 Communication 122	Anatomy and Physiology I Anatomy and Physiology II Paramedical Microbiology Public Speaking College Composition and Reading	(4) (4) 5 3 3
or English 124	Advanced Composition: Critical Reasoning and Writing	(3)
Nursing 118 Nursing 119 Nursing 120	Nursing Pharmacology I Nursing Pharmacology II Introduction to Nursing: Theory and Practice	1 1 8
Nursing 130 Nursing 132	Perioperative Nursing Maternal/Newborn and Child Health Nursing	5 5
Nursing 220	Nursing Management in Nutritional-Metabolic Disorders	5
Nursing 222	Neurologic and Psychiatric Nursing	5
Nursing 230	Nursing Management in Cardio-Pulmonary and Circulatory Disorders	6
Nursing 235	Preceptoried Patient Care Management	3
Psychology 120 Sociology 114	Introductory Psychology Introduction to Sociology of Minority Group Relations	3 3
or Sociology 120	Introductory Sociology	(3)
	Total	64-65
	Plus Remaining General Education Requirements for Nursing Majors	6
	Total Required	70-71

OCCUPATIONAL THERAPY ASSISTANT

See page 18 for special admission procedures and criteria.
 This career major prepares the student to work as an Occupational Therapy Assistant with people who are limited by physical injury or illness, mental health problems, developmental or learning disabilities, or the aging process. Occupational Therapy Assistants (OTAs) work under the direct supervision of an occupational therapist (OT) providing all levels of patient treatment. The student learns to utilize manual and creative arts, purposeful activities, exercises, adaptive devices, daily living tasks and leisure activities to assist patients to achieve their highest level of function.

Those working in occupational therapy would be expected to assist the OT in assessing patient needs, determining therapeutic goals, planning treatment activities, carrying out treatment procedures, communicating with patients and health care providers, documenting patient progress, and maintaining clinical environments. Assistants are employed in rehabilitation facilities, hospitals, skilled nursing facilities, schools, day treatment centers, outpatient clinics and other community agencies.

Grossmont College prepares the student for an Associate Degree in Science as an Occupational Therapy Assistant. In addition to the occupational therapy courses, the major requires selected general education courses from the biological, social and behavioral sciences. The Program is fully accredited through the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD, 20814-3449. AOTA's phone number is (301) 652-6611 x2914. Graduates will be able to sit for their national certification exam for Occupational Therapy Assistants, administered by the National Board for Certification of Occupational Therapy. After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA)®. Most states require licensure to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Students accepted to the Occupational Therapy Assistant Program are required to undergo a total of 2 background check and urine drug screening tests. Once before starting the program and being placed at any clinical site and again during the 2nd year of the program. There is a minimum cost for these procedures that the student is responsible for. Failure to pass either of both of these procedures may interfere with clinical placement and/or acceptance to the program. Applicants with prior convictions are required to contact the director of the program for confidential advisement and planning prior to applying to the Grossmont College Occupational Therapy Assistant Program.

Any prior conviction of a misdemeanor or felony may also influence eligibility to sit for licensure as an Occupational Therapy Assistant. Applicants are urged to contact the Occupational Therapy Board of California at 916-263-2294 and NBCOT 301-990-7979.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Activities Director
 ADA Assistant
 Administrator*
 Behavioral Support Assistant
 Special Education Teacher Assistant/Aide
 Camp Counselor
 Certified Occupational Therapist Assistant
 Ergonomics Assistant
 Health Educator
 Healthcare Consultant
 Occupational Therapist*
 Recreation Leader
 Recreation Program Assistant
 Rehab Director
 Teacher*
 Vocational Rehabilitation Counselor*

*Additional education is required

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Achieve entry level competence and understand the importance of lifelong learning to maintain competence.
2. Promote and support the profession of occupational therapy, emerging practice areas and community service.

General Education Requirements For Occupational Therapy Assistant

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

Competency Requirement

1. Competency in reading, writing, expression shown by achieving a "C" grade or higher or "Pass" in courses listed under Area A, Section 1 – Written Communication.
2. Competency in Mathematics shown by either
 - a. Earning a grade of "C" or better, or "Pass," in Math 103 or a higher numbered mathematics course or
 - b. Assessing into Math 120 or higher through the mathematics placement process. (students meeting competency through assessment must still take an Area A3 course.)

Courses in bold print are required in the Occupational Therapy Assistant major. All OTA courses must be completed with a "C" grade or higher, a competent program skills checklist, and "meets standard" on final professional behavior evaluation prior to enrollment in OTA 240 and OTA 241. All GE Courses must be completed prior to OTA 240 and OTA 241.

Area A - Language and Rationality

Three courses (a minimum of nine units) are required in written communication, oral communication, and analytical thinking. At least ONE course must be taken from EACH of the following three sections:

1. Written Communication

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.

English 120, 124

2. Oral Communication

Communication 120, 122, 130

3. Analytical Thinking

Competency in Mathematics shown by either

- a. Earning a grade of "C" or better, or "Pass," in Math 103 or a higher numbered mathematics course or*
- b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)*

Anthropology 215

Biology 215

Economics 215

Geography 104

Mathematics 103, 110, 120, 125, 126, 150, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285

Philosophy 125, 130

Physical Science 120

Psychology 215

Sociology 215

Area B - Natural Sciences

Two natural science courses (a minimum of seven units) are required. One course must contain a laboratory.

Courses with an asterisk are laboratory only. Courses not containing a laboratory component are underlined.

Anthropology 130, 131*

Astronomy 110, 112*, 120

Biology 140 and 141 or 144 and 145, 152, 105, 110, 112, 114, 118, 120, 141L*, 230, 240

Chemistry 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241, 241L*, 242, 242L*

Geography 120, 121*, 140

Geology 104, 110, 111*, 121, 210, 220, 230

Oceanography 112, 113*

Physical Science 100, 110, 111*

Physics 110, 130, 131, 140, 240, 241

Science 110

Area C - Humanities

One humanities course (a minimum of three units) is required.

American Sign Language 120, 121, 140, 220, 221, 250

Arabic 120, 121, 122, 123, 148, 220, 221, 250, 251

Art 100, 120, 124, 126, 129, 140, 141, 142, 143, 145, 146, 147, 171, 189

Chinese 120, 121, 220, 221, 250, 251

Communication 135, 137, 144, 145

Cross-Cultural Studies 122, 123, 126, 127, 134, 144, 147, 149, 152, 236, 237, 238

Dance 110, 120

English 112, 118, 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 241, 242, 275, 276, 277

French 120, 121, 152, 220, 221, 250, 251

German 120, 121, 220, 221, 250, 251

History 100, 101, 103, 105, 106, 113, 126, 135, 136, 137, 148

Humanities 110, 120, 125, 130, 135, 140, 160, 170

Italian 120, 121, 220, 221, 250, 251

Japanese 120, 121, 149, 220, 221, 250, 251

Media Communications 111, 189

Music 110, 111, 115, 116, 117, 123, 189

Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155

Photography 150, 154

Religious Studies 120, 130, 140, 150, 170

Russian 120, 121, 220, 221, 250, 251

Spanish 120, 121, 122, 123, 141, 145, 220, 221, 250, 251

Theatre Arts 101, 110, 130, 143, 144, 189

Area D - Social Sciences

One social science course (a minimum of three units) is required.

Administration of Justice 110

Anthropology 120, 140

Child Development 115, 125, 131, 134, 145, 153

Communication 124, 128

Cross-Cultural Studies 114, 115, 116, 118, 119, 124, 125, 128, 130, 131, 132, 133, 135, 145, 153, 154, 155, 180, 181

Economics 110, 120, 121

Family Studies 115, 120

Geography 100, 101, 106, 130, 170

Health Education 120, 155, 158, 159, 201

Health Science 110

History 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181

Media Communications 110

Political Science 120, 121, 124, 130, 140, 150, 160

Psychology 120, 125, 132, 134, 138, 140, 170, 220

Sociology 114 or 120, 125, 130, 138, 140

Area E - Fitness/Wellness

Two courses involving physical exercise and/or dance are required. They can only be chosen from the exercise science and/or dance courses listed below:

Dance 068, 071A, 071B, 072A, 072B, 074A, 074B, 078 A, 078B, 080A, 080B, 080C, 080D, 081A, 081B, 081C, 081D, 082A, 082B, 084A, 084B, 084C, 084D, 088A, 088B, 088C, 088D, 094A, 094B, 094C, 094D, 099A, 099B, 099C, 116, 118A, 118B, 118C, 118D

Exercise Science 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 027, 028A, 028B, 028C, 029, 030, 035, 037A, 037B, 037C, 039, 040A, 040B, 040C, 041, 043A, 043B, 043C, 044A, 044B, 044C, 060A, 060B, 060C, 076A, 076B, 076C, 125A, 125B, 125C, 130A, 130B, 130C, 155A, 155B, 155C, 170A, 170B, 170C, 171A, 171B, 171C, 172A, 172B, 172C, 175A, 175B, 175C, 176A, 176B, 176C, 180, 185A, 185B, 185C

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Biology 140 and Biology 141 or Biology 144 and Biology 145	Human Anatomy Human Physiology Human Anatomy & Physiology I Human Anatomy & Physiology II	5 3 (4) (4)
Family Studies 120	Human Development	3
Occupational Therapy Assistant 100	Fundamentals of Occupational Therapy	2
Occupational Therapy Assistant 101	Fundamentals of Activity / Therapeutic Media	2
Occupational Therapy Assistant 102	Rehabilitation Terminology, Diseases and Diagnoses	2
Occupational Therapy Assistant 110	Occupational Skills – Psychosocial	4
Occupational Therapy Assistant 111	Clinical Practicum I	1
Occupational Therapy Assistant 120	Documentation in Occupational Therapy	3
Occupational Therapy Assistant 130	Dynamics of Human Movement	4
Occupational Therapy Assistant 140	Occupational Skills Development in Pediatric Roles	2
Occupational Therapy Assistant 141	Clinical Practicum II	1
Occupational Therapy Assistant 200	Introduction to Occupational Therapy Skills	3
Occupational Therapy Assistant 210	Physical Rehabilitation	3
Occupational Therapy Assistant 220	Assistive Technology in Occupational Therapy	3
Occupational Therapy Assistant 221	Advanced Occupational Therapy Skills for Physical Dysfunction	3
Occupational Therapy Assistant 230	Clinical Practicum III	1
Occupational Therapy Assistant 240	Occupational Therapy Management	2
Occupational Therapy Assistant 241	Clinical Practicum IV	6
	Clinical Practicum V	6
	Total	56
	Plus General Education Requirements	14
	Total Required	70

OCEANOGRAPHY

Oceanography applies an eclectic mix of natural sciences to the study of the world's oceans. Physics, chemistry, biology, geology, geography, meteorology and even astronomy contribute to understanding the composition, structure and motion of seawater, and its interaction with the lithosphere, atmosphere and biosphere.

Although a few four-year institutions offer undergraduate degrees in oceanography, students who pursue oceanographic studies typically complete undergraduate degrees in one or more of the aforementioned natural sciences, then later apply that knowledge to graduate study in oceanography. The associate degree in oceanography outlined below provides beginning lecture, lab and field courses in oceanography, plus a solid foundation of math and appropriate science courses upon which transferring students can build baccalaureate degrees that are later applied in graduate oceanographic studies.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Aquarist
Boat Captain
Chemical Oceanographer*
Climatologist*
Environmental Advocate
Marine Archaeologist*
Marine Biologist*
Marine Economist*
Marine Geologist/Geophysicist*
Marine Lawyer*
Marine Policy Specialist*
Ocean Engineer*
Ocean Fisheries Specialist*
Ocean Resource Management*
Ocean Technician
Physical Oceanographer*
Teacher*

* Bachelor's degree or higher required.

The Program-level Student Learning Outcomes (PSLOs)

(PSLOs) below is an outcome that students will achieve after completing specific degree/certificate requirements in this program. Students will find, use and evaluate resources for oceanographic information.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Geology 110	Planet Earth	3
Mathematics 180	Analytic Geometry & Calculus I	5
Oceanography 112	Introduction to Oceanography	3
Oceanography 113	Oceanography Laboratory	1
	Total	22

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Biology 105	Life in the Sea	4
Biology 120	Principles of Biology	4
Mathematics 280	Analytic Geometry & Calculus II	4
Physics 140	Mechanics of Solids	4
Physics 240	Electricity, Magnetism & Heat	4
	Total	8

Select SIX (6) units from the following courses:

Subject & Number	Title	Units
Biology 110	Environmental Biology	4
Biology 132	Mammals of the Sea	2
Chemistry 110	Environmental Chemistry	3
Geography 104	Introduction to Geographic Information Science (GIS)	3
Geography 120	Elements of Physical Geography	3
Geography 140	Introduction to Meteorology	3
Geology 121	Earth History	4
Geology 162	Geologic Field Studies: Southern California Mountain Areas	1
Geology 163	Geologic Field Studies: Mojave Desert and Adjacent Areas	1
Geology 164	Geologic Field Studies: Southern California Coastal Areas	1
Geology 165	Geologic Field Studies: Colorado Desert/ Salton Trough Area	1
Geology 172	Field Exploration: Colorado Plateau	3
Geology 173	Field Exploration: Cascade Range/ Modoc Plateau	3
Geology 174	Field Exploration: Basin and Range Province	3
Geology 175	Field Exploration: California Coastal Mountains	3
Geology 176	Field Exploration: Sierra Nevada	3
Geology 210	Geology of California	4
Geology 220	Geology of National Parks	4
Geology 230	Natural Disasters	3
Oceanography 150	Field Study of the Natural History Greater San Diego Region	3
	Total	6
	Total Required	36
	Plus General Education and Elective Requirements	

ORTHOPEDIC TECHNOLOGY

See page 18 for special admission procedures and criteria.

A program designed to train students as Orthopedic Technologists, preparing graduates with lifetime professional skills in an expanding allied health field. Orthopedic Technologists are employed in hospitals, clinics, or private practice offices for applying, adjusting, and/or removing of casts, splints, and braces. In addition, the Orthopedic Technologists set up, adjust, and maintain all traction configurations, assist with the care of the acutely injured orthopedic patients, and assist the physician in the reduction and/or manipulation of orthopedic injuries. This program prepares the graduate to take the national certification examination (NBCOT) and is the first Orthopedic Technology program to be officially recognized by the National Association of Orthopedic Technologists (NAOT).

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Orthopedic Assistant
Orthopedic Cast Specialist
Orthopedic Technologist/Assistant
Orthopedic Surgical Technician
Orthotic Assistant
Orthotics-Prosthetics Assistant
Prosthetics Assistant

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Articulate descriptions of orthopedic conditions based on the knowledge of anatomical structures and their relationships to one another.
2. Demonstrate the ability to apply, adjust, and remove all common orthopedic devices per hospital policy.
3. Demonstrate the knowledge of and the ability to execute aseptic technique when performing orthopedic procedures.
4. Demonstrate an adherence to the Standards of Practice and Code of Ethics of the National Association of Orthopedic Technologist that will reflect the ethical, legal and moral responsibilities of the Orthopedic Technologists.

Associate Degree Major Requirements

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Orthopedic Technology 110	Orthopedic Anatomy and Physiology	5
Orthopedic Technology 111	Orthopedic Techniques I	4
Orthopedic Technology 210	Diagnosis and Treatment of Orthopedic Disorders	5
Orthopedic Technology 211	Orthopedic Techniques II	4
Orthopedic Technology 212	Supervised Hospital Clinical Practicum I	2
Orthopedic Technology 214	Supervised Hospital Clinical Practicum II	4
	Total Required	24
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the courses required for the above major qualifies for a Certificate of Achievement in Orthopedic Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER (A.A.-T)

The Associate in Arts in Philosophy for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB1440. A total of 18 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). A student may apply for this degree in conjunction with an Associate in Arts in Philosophy degree provided the courses taken meet the requirements of both degrees. Students should speak with a Counselor to verify that the requirements for either or both degrees have been met. In addition, students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Philosophy for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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) Obtaining of a minimum grade point average of 2.0. Students are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis. A "Pass" grade is not an acceptable grade for courses in the major.

The Philosophy degree provides a solid background for students wishing to continue their studies at a four-year institution. The discipline focuses on understanding the history of philosophic inquiry and the development of philosophic theory, as well as developing reasoning skills.

The Program-level Student Learning Outcomes

(PSLOs) for Grossmont College's Philosophy Department are outcomes that students will achieve after completing specific degree/certificate requirements in this program.

Students will:

1. Engage with a body of philosophic literature by demonstrating in college-level writing and/or other evaluative processes including but not limited to critiques, comparison and contrast of theories and formulation of argumentation.
2. Identify basic concepts, branches and terminology of the discipline by demonstrating in college-level writing and/or other evaluative processes including but not limited to critiques, comparison and contrast of theories and formulation of argumentation..

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Select TWO (2) of the following:		
Philosophy 130*	Logic	3
Philosophy 110*	A General Introduction to Philosophy	3
or		
Philosophy 140*	Problems in Ethics	(3)
	Total	6

List A:

Subject & Number	Title	Units
Select ONE (1) of the following courses:		
Any course from the Required Core not already used or:		
Philosophy 112*	The Classical Mind	3
Philosophy 114*	The Medieval Mind	3
Philosophy 116*	The Modern Mind	3
Philosophy 118*	The Contemporary Mind	3
	Total	3

List B:

Subject & Number	Title	Units
Select TWO (2) of the following courses:		
Any course from List A not already used or:		
History 105*	Early Western Civilization	3
History 106*	Modern Western Civilization	3
Philosophy 125*	Critical Thinking	3
	Total	6

List C:

Subject & Number	Title	Units
Select ONE (1) of the following courses:		
Any course from List A or B not already used or:		
Philosophy 111*	Philosophy and Popular Culture	3
Philosophy 141*	Bioethics	3
Philosophy 145*	Social and Political Philosophy	3
Philosophy 150*	The Philosophy of Art	3
Philosophy 155*	The Philosophy of Science	3
	Total	3
	Units for the major	18
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE.

PHILOSOPHY

The Philosophy major is designed to provide a solid background for students wishing to continue their studies in philosophy at four-year institutions. Students who plan to transfer to a four-year institution should check the catalog of the transfer school being considered.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Archivist*
 Biographer*
 College Administrator*
 Consultant
 Cultural Affairs Officer*
 Director, Religious Activities*
 Etymologist*
 Insurance Agent/Broker
 Lawyer*
 Librarian*
 Manuscript Reader
 Peace Corp Worker
 Pastoral Assistant
 Philologist*
 Teacher/Professor*
 Writer

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Engage with a body of philosophic literature by demonstrating in college-level writing and/or other evaluative processes, including but not limited to, critiques, comparison and contrast of theories and formulation of argumentation.
2. Identify basic concepts, branches and terminology of the discipline by demonstrating in college-level writing and/or other evaluative processes, including but not limited to, critiques, comparison and contrast of theories and formulation of argumentation.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Philosophy 110	A General Intro. to Philosophy	3
English 120	College Composition and Reading	3
	Total	6

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Philosophy 125	Critical Thinking	3
Philosophy 130*	Logic	3
	Total	3

*Recommended for students planning to major in philosophy at a university.

Select TWO (2) of the following courses:

Subject & Number	Title	Units
Philosophy 111	Philosophy and Popular Culture	3
Philosophy 112	The Classical Mind	3
Philosophy 114	The Medieval Mind	3
Philosophy 116	The Modern Mind	3
Philosophy 118	The Contemporary Mind	3
Philosophy 140	Problems in Ethics	3
Philosophy 141	Bioethics	3
Philosophy 145	Social and Political Philosophy	3
Philosophy 150	The Philosophy of Art	3
Philosophy 155	The Philosophy of Science	3
	Total	6

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Religious Studies 120	World Religions	3
Religious Studies 130	Scriptures of World Religions	3
Religious Studies 140	Religion and Culture	3
Religious Studies 150	Scriptures of India and China	3
	Total	3

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Humanities 110	Principles of the Humanities	3
Humanities 120	European Humanities	3
Humanities 130	East Asian Humanities	3
Humanities 160	Humanities of the Future	3
Humanities 170	World Humanities	3
	Total	3
	Total Required	21
	Plus General Education and Elective Requirements	



ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER (A.S.-T)

The Associate of Science in Physics for Transfer (A.S.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 25 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor. The following requirements must be met to be awarded an Associate in Science in Physics for Transfer (A.S.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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) Obtaining of a minimum grade point average of 2.0. Students are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

The Associate of Science in Physics for Transfer Degree Program offers a secure foundation for further study in physics or engineering. The primary emphasis of the program is to prepare students for transfer to four-year institutions as science or engineering majors. Students are asked to consult the catalog of the transfer institution for specific requirements.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will apply the fundamental principles of physics to real world or idealized situations.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Physics 140*	Mechanics of Solids	4
Physics 240*	Electricity, Magnetism and Heat	4
Physics 241*	Light, Optics, and Modern Physics	4
Math 180*	Analytic Geometry & Calculus I	5
Math 280*	Analytic Geometry & Calculus II	4

Math 281*	Multivariable Calculus	4
Units for the major	25	
Units for CSU GE or IGETC-CSU GE	37-39	
Total units required for the degree	60	

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

PHYSICS

The Associate in Science Degree Program offers a secure foundation for further study in physics or engineering. The primary emphasis of the program is to prepare students for transfer to four-year institutions as science or engineering majors. Students are asked to consult the catalog of the transfer institution for specific requirements.

In addition to the required and elective courses, physics students are expected to attend at least four physics or engineering colloquia in their last semester.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Aerodynamist*
 Airplane Navigator*
 Air Pollution Operating Specialist
 Ballistics Expert
 Engineer (Mechanical, Electrical)*
 Hydrologist*
 Instructor/Professor*
 Industrial Hygienist
 Pharmacist*
 Physicist (Mechanical, Laser, Electrical, Optics, etc.)*
 Premedical*
 *Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below is an outcome that students will achieve after completing specific degree/certificate requirements in this program. Students will apply the fundamental principles of physics to real world or idealized situations.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Chemistry 141	General Chemistry I	5
Chemistry 142	General Chemistry II	5
Mathematics 180	Analytic Geometry & Calculus I	5
Mathematics 280	Analytic Geometry & Calculus II	4
Mathematics 281	Multivariable Calculus	4
Physics 140	Mechanics of Solids	4
Physics 240	Electricity, Magnetism & Heat	4
Physics 241	Light, Wave Motion and Modern Physics	4
	Total Required	35
	Plus General Education and Elective Requirements	



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER (A.A.-T)

The Associate in Arts in Political Science for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 18-19 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Political Science for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Political Science is perhaps the oldest organized academic discipline in western civilization, and a major in this field prepares students for a variety of challenges. This transfer degree in political science can lead to a transfer to a university where one can continue work leading to a baccalaureate degree in political science, public administration or public policy. In addition, there are selected entry level positions in business and government open to the graduate with an Associate in Arts degree in Political Science. Some individuals follow the steps necessary to go beyond an undergraduate degree and enter graduate schools leading to career in law, government service, or industry. Outlined below is the program that fulfills the lower division requirements for most majors in political science in universities. For special requirements, the student should consult the baccalaureate granting institution he/ she is considering for matriculation.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Think critically and effectively express their views in written and verbal communication.
2. Demonstrate the skills for contemporary world citizen.
3. Demonstrate a basic understanding of US and world politics as well as the broad discipline of political science.
4. Pursue advanced study in political science and relevant career-oriented programs.
5. Critically analyze the nature of power in political systems including the roles played by institutional and non-institutional actors.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Political Science 121*	Introduction to U.S. Government and Politics	3
	Total	3

List A

Select THREE (3) of the following courses:

Political Science 120*	Introduction to Politics and Political Analysis	3
Political Science 124*	Introduction to Comparative Government and Politics	3
Political Science 130*	Introduction to International Relations	3
Political Science 150*	Introduction to Political Theory	3
Math 160* or Anthropology/ Psychology/ Sociology 215*	Elementary Statistics	4
	Statistics for the Behavioral Sciences	(4)
	Total	9-10

List B

Select TWO (2) of the following courses:

Any List A course not used above or		
Economics 110*	Economic Issues and Policies	3
Economics 120*	Principles of Macroeconomics	3
Economics 121*	Principles of Microeconomics	3
Political Science 140*	Introduction to California Government and Politics	3
	Total	6
	Units for the major	18-19
	Units for CSU GE or IGETC-CSU GE	37-39
	Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

POLITICAL SCIENCE

Political Science is perhaps the oldest organized academic discipline in western civilization, and a major in this field prepares students for a variety of challenges. A major in political science can lead to a transfer to a university where one can continue work leading to a baccalaureate degree in political science, public administration or public policy. In addition, there are selected entry level positions in business and government open to the graduate with an Associate in Arts degree in Political Science. Some individuals follow the steps necessary to go beyond an undergraduate degree and enter graduate schools leading to careers in law, government service, or industry.

Outlined below is the program that fulfills the lower division requirements for most majors in political science in universities. For special requirements, the student should consult the baccalaureate granting institution he/she is considering for matriculation.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Book Critic
 City Manager*
 Congressional District Aide
 Consular Officer*
 Diplomatic Officer*
 Election Supervisor
 Fund Raising Director*
 Intelligence Specialist*
 Labor Relations Specialist*
 Lawyer*
 Paralegal Assistant
 Research Assistant
 Urban Planner*

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(**PSLOs**) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Think critically and effectively express their views in written and verbal communication.
2. Demonstrate the skills for contemporary world citizenship.
3. Demonstrate a basic understanding of US and world politics as well as the broad discipline of political science.
4. Pursue advanced study in political science and relevant career-oriented programs.
5. Critically analyze the nature of power in political systems including the roles played by institutional and non-institutional actors.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Political Science 120	Introduction to Politics and Political Analysis	3
Political Science 121	Introduction to U.S. Government and Politics	3
	Total	6

Select THREE (3) of the following courses after consultation with a member of the political science faculty and a counselor because of differences in transfer requirements at various four year institutions.

Subject & Number	Title	Units
Political Science 124	Introduction to Comparative Government and Politics	3
Political Science 130	Introduction to International Relations	3
Political Science 140	Introduction to California Governments and Politics	3
Political Science 150	Introduction to Political Theory	3
	Total	9

Select ONE (1) of the following courses:

Subject & Number	Title	Units
Economics 120	Principles of Macroeconomics	3
Geography 130	Human & Cultural Geography	3
	Total	3
	Total Required	18
	Plus General Education and Elective Requirements	

Recommended electives:

Students planning to complete a baccalaureate degree in political science are **STRONGLY** advised to consult with a faculty advisor in political science at Grossmont College and take the following courses:

Subject & Number	Title	Units
Anthropology 120	Cultural Anthropology	3
Economics 215	Statistics for Business and Economics	3
or		
Mathematics 160	Elementary Statistics	(4)
History 108	Early American History	3
History 109	Modern American History	3
Political Science 135	Model United Nations	1
Sociology 120	Introductory Sociology	3



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN PSYCHOLOGY FOR TRANSFER (A.A.-T)

The Associate in Arts in Psychology for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. A total of 20-23 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Psychology for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Psychology is a diverse discipline, grounded in science, but with nearly boundless applications in everyday life. Some psychologists do basic research, developing theories and testing them through carefully honed research methods involving observation, experimentation and analysis. Other psychologists apply the discipline's scientific knowledge to help people, organizations and communities function better (APA).

The Program-level Student Learning Outcomes (PSLOs)

below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Identify, explain, and compare and contrast the major theoretical perspectives in psychology.
2. Evaluate psychological information using the scientific method.
3. Apply appropriate statistical analyses to quantitative data.
4. Apply principles of psychology to the understanding of self and others.

Associate Degree Major Requirements

Required Core

Subject & Number	Title	Units
Psychology 120*	Introductory Psychology	3
Psychology 205	Research Methods for Psychology	3
Psychology 215*	Statistics for the Behavioral Sciences	4
or		
Math 160*	Elementary Statistics	(4)
		10

List A

Select ONE (1) of the following courses:	
Biology 120*	Principles of Biology
Psychology 140*	Physiological Psychology

3-4

List B

Select THREE (3) of the following courses:	
Any List A course not used above or	
Psychology 138*	Social Psychology
Psychology 150*	Developmental Psychology
Psychology 170*	Abnormal Psychology
Psychology 201	Academic & Career Opportunities in Psychology
Psychology 220*	Learning
Total	7-9
Units for the major	20-22
Units for CSU GE or IGETC- CSU GE	37-39
Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.

RESPIRATORY THERAPY

See page 19 for special admission procedures and criteria.

Respiratory Therapy is an allied health specialty employed in the treatment, management, control and care of patients with deficiencies and abnormalities associated with the cardio-respiratory system. It is defined as the therapeutic use of medical gases, air and oxygen administering apparatus, environmental control systems, humidification and aerosols, drugs and medications, ventilatory assistance and ventilatory control, postural drainage, chest physiotherapy and breathing exercise, respiratory rehabilitation, assistance with cardio-pulmonary resuscitation, and maintenance of natural, artificial and mechanical airways.

Specific testing techniques are employed in respiratory therapy to assist in diagnoses, monitoring, treatment and research. This includes measurement of ventilatory volumes, pressures and flows and blood gas analyses.

Grossmont College prepares the student for an Associate in Science Degree in Respiratory Therapy as well as eligibility to take the registry and licensing examinations administered by the National Board for Respiratory Care (NBRC).

In addition to the college application, a special application for this major is required. An individual evaluation will be made for students wishing to transfer into the Respiratory Therapy Program or to receive credit for previous college education.

Upon completion of the major course requirements from the Respiratory Therapy Program, the graduating student will be required to successfully pass the comprehensive NBRC "Self Assessment Examination" (SAE) or a similar exam which will serve as the Program Examination during the fourth semester.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Asthma Educator
 Clinician
 Critical Care Specialist
 Department Supervisor+ / Manager*
 Educator (Academic)*
 Equipment Sales Representative
 Health Educator
 Home Care Respiratory Specialist
 Industrial Consultant
 Medical Researcher*
 Neonatal / Pediatric Respiratory Specialist
 Pulmonary Function Specialist
 Pulmonary Rehabilitation Specialist
 *Bachelor's degree or higher
 +Bachelor's degree recommended

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate the ability to comprehend, apply and evaluate clinical information relevant to his/her role as a Respiratory Therapist.
2. Demonstrate the technical proficiency in all the skills necessary to fulfill the role as a Respiratory Therapist.
3. Demonstrate personal behaviors consistent with professional and employer expectations as a Respiratory Therapist.

General Education Requirements for Respiratory Therapy Majors

All Allied Health and Nursing students adhere to the graduation requirements outlined in the college catalog for the academic year in which they enter the program.

Competency Requirement

1. Competency in reading, writing, expression shown by achieving a "C" grade or higher or "Pass" in courses listed under Area A, Section 1 – Written Communication.
2. Competency in Mathematics shown by either
 - a. Earning a grade of "C" or better or "Pass" in Math 103 or a higher numbered mathematics course or
 - b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)

Area A - Language and Rationality

Three courses (a minimum of nine units) are required in written communication, oral communication, and analytical thinking. At least ONE course must be taken from EACH of the following three sections:

1. Written Communication

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.

English 120, 124

2. Oral Communication

Communication 120, 122, 130

3. Analytical Thinking

Competency in Mathematics shown by either

- a. Earning a grade of "C" or better or "Pass" in Math 103 or a higher numbered mathematics course or*
- b. Assessing into Math 120 or higher through the mathematics placement process. (Students meeting competency through assessment must still take an Area A3 course.)*

Anthropology 215
 Biology 215
 Economics 215
 Geography 104
 Mathematics 103, 110, 120, 125, 126, 150, 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285
 Philosophy 125, 130
 Physical Science 120
 Psychology 215
 Sociology 215

Area B - Natural Sciences

Two natural science courses (a minimum of seven units) are required. One course must contain a laboratory.

Courses with an asterisk are laboratory only. Courses not containing a laboratory component are underlined.

Anthropology 130, 131
 Astronomy 110, 112*, 120
 Biology 105, 110, 112, 114, 118, 120, 140, 141, 141L*, 144, 145, 152, 230, 240
 Chemistry 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241, 241L*, 242, 242L*
 Geography 120, 121*, 140
 Geology 104, 110, 111*, 121, 210, 220, 230
 Oceanography 112, 113*
 Physical Science 100, 110, 111*
 Physics 110, 130, 131, 140, 240, 241
 Science 110

Area C - Humanities

One humanities course (a minimum of three units) is required.

American Sign Language 120, 121, 140, 220, 221, 250
 Arabic 120, 121, 122, 123, 148, 220, 221, 250, 251
 Art 100, 120, 124, 126, 129, 140, 141, 142, 143, 145, 146, 147, 171, 189
 Chinese 120, 121, 220, 221, 250, 251
 Communication 135, 137, 144, 145
 Cross-Cultural Studies 122, 123, 126, 127, 134, 144, 147, 149, 152, 236, 237, 238
 Dance 110, 120
 English 112, 118, 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 241, 242, 275, 276, 277
 French 120, 121, 152, 220, 221, 250, 251
 German 120, 121, 220, 221, 250, 251
 History 100, 101, 103, 105, 106, 113, 126, 135, 136, 137, 148
 Humanities 110, 120, 125, 130, 135, 140, 160, 170
 Italian 120, 121, 220, 221, 250, 251
 Japanese 120, 121, 149, 220, 221, 250, 251
 Media Communications 111, 189
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155
 Photography 150, 154
 Religious Studies 120, 130, 140, 150, 170
 Russian 120, 121, 220, 221, 250, 251
 Spanish 120, 121, 122, 123, 141, 145, 220, 221, 250, 251

Theatre Arts 101, 110, 130, 143, 144, 189

Area D - Social Sciences

One social science course (a minimum of three units) is required.

- Administration of Justice 110
- Anthropology 120, 140
- Child Development 115, 125, 131, 134, 145, 153
- Communication 124, 128
- Cross-Cultural Studies 114, 115, 116, 118, 119, 124, 125, 128, 130, 131, 132, 133, 135, 145, 153, 154, 155, 180, 181
- Economics 110, 120, 121
- Family Studies 115, 120
- Geography 100, 101, 106, 130, 170
- Health Education 120, 155, 158, 159, 201
- Health Science 110
- History 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181
- Media Communications 110
- Political Science 120, 121, 124, 130, 140, 150, 160
- Psychology 120, 125, 132, 134, 138, 140, 170, 220
- Sociology 114, 120, 125, 130, 138, 140

Area E – Fitness/Wellness

Two courses involving physical exercise and/or dance are required. They can only be chosen from the exercise science and/or dance courses listed below:

Dance 068, 071A, 071B, 072A, 072B, 074A, 074B, 078A, 078B, 080A, 080B, 080C, 080D, 081A, 081B, 081C, 081D, 082A, 082B, 084A, 084B, 084C, 084D, 088A, 088B, 088C, 088D, 094A, 094B, 094C, 094D, 099A, 099B, 099C, 116, 118A, 118B, 118C, 118D

Exercise Science 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 027, 028A, 028B, 028C, 029, 030, 035, 037A, 037B, 037C, 039, 040A, 040B, 040C, 041, 043A, 043B, 043C, 044A, 044B, 044C, 060A, 060B, 060C, 076A, 076B, 076C, 125A, 125B, 125C, 130A, 130B, 130C, 155A, 155B, 155C, 170A, 170B, 170C, 171A, 171B, 171C, 172A, 172B, 172C, 175A, 175B, 175C, 176A, 176B, 176C, 180, 185A, 185B, 185C

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Biology 140 and Biology 141 and Biology 141L	Human Anatomy	5
	Human Physiology	3
	Laboratory in Human Physiology	1
or		
Biology 144 and Biology 145	Anatomy & Physiology I	(4)
Biology 152	Anatomy & Physiology II	(4)
Chemistry 115	Paramedical Microbiology	5
Respiratory Therapy 105	Fundamentals of Chemistry	4
Respiratory Therapy 108	Cardiopulmonary Physiology and Disease Entities	4
Respiratory Therapy 112	Basic Respiratory Therapy Equipment, Procedures and Life Support Systems	5
	Supervised Clinical Practicum I	1

Respiratory Therapy	114	Cardiopulmonary Pharmacology	2
Respiratory Therapy	116	Assessment in Respiratory Care	2.5
Respiratory Therapy	118	Critical Care Life Support Equipment and Procedures	4.5
Respiratory Therapy	122	Supervised Clinical Practicum II	3
Respiratory Therapy	150	Neonatal-Pediatric Respiratory Care	3
Respiratory Therapy	201	Cardiopulmonary Pathology and Pathophysiology	4
Respiratory Therapy	205	Cardiopulmonary Patient Management	3.5
Respiratory Therapy	208	Invasive and Noninvasive Cardiopulmonary Monitoring	4
Respiratory Therapy	222	Supervised Clinical Practicum III	4
Respiratory Therapy	232	Supervised Clinical Practicum IV	4
Respiratory Therapy	268	Respiratory Therapy Home Care Techniques	1.5
Total Required		63 or 64	
Plus General Education and Elective Requirements			

Certificate of Achievement Anesthesia Technology

Note: All courses must be completed with a letter grade of "C" or higher.

Subject and Number	Title	Units
Respiratory Therapy 141	Anesthesia Technology I	2
Respiratory Therapy 142	Anatomy & Physiology for the Anesthesia Technician	2
Respiratory Therapy 143	Introduction to the Operating Room	1.5
Respiratory Therapy 144	Supervised Clinical Practicum I for the Anesthesia Technician	3
Respiratory Therapy 145	Anesthesia Technology II	2.5
Respiratory Therapy 146	Pharmacology for the Anesthesia Technician	2
Respiratory Therapy 147	Anesthesia Technology III	2.5
Respiratory Therapy 148	Supervised Clinical Practicum II for the Anesthesia Technician	2
	Total	17.5

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Anesthesia Technology. An official request must be filed with the Admissions and Records Office prior to the deadline stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

RETAIL MANAGEMENT

Retail sales and management is one of the largest fields for employment in the United States. This program is designed to provide the foundation for advancement from entry level positions to management in retailing. Career opportunities are plentiful in food chains, department stores, specialized small and large retail outlets, and small stores. A certificate or degree in the program greatly enhances a part-time or full-time employee's opportunity to progress in a career in this large, growing industry.

Note: This major meets the core retail management curriculum recommended by the Western Association of Food Chains for employees who wish to prepare for management positions.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Department Manager
 District Manager
 Human Resources Assistant
 Marketing Manager
 Merchandise Manager
 Office Manager
 Retail Store Manager
 Sales Manager
 Store Owner/Operator

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate knowledge of the history of contemporary and traditional retail practices including basic consumer laws and regulation for consumer protection.
2. Identify and apply the basic economic retail principles of pricing, quality, customer service and ethics.
3. Discuss communication from retailer to customer including such forms as visual merchandising, personal selling, advertising, sales promotions, internet sales and advertising and public relations.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Business 109	Elementary Accounting	3
Business 115	Human Relations in Business	3
Business 118	Retail Management	3
Business 128	Business Communications	3
Business 146	Introduction to Marketing	3
Business 152	Business Math	2
Business 155	Human Resources Management	3
Business 156	Principles of Management	3
Communication 122	Public Speaking	3
Computer Science Info. Systems 110	Principles of Information Systems	4
or Computer Science Info. Systems 172	Introduction to Microcomputer Applications (2)	
	Total	28-30
Plus General Education and Elective Requirements		

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Retail Management. An official request must be filed with the Admissions and Records Office prior to the deadline stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

RUSSIAN

This program is designed to provide students with skills in understanding, speaking, reading, and writing Russian. It also gives students a greater understanding of Russian culture and civilization and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken, and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of Foreign Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Advertising
 Bilingual Aide
 Foreign Correspondent*
 Foreign Broadcast Specialist*
 Import-Export Agent
 In-Country Representative
 Intelligence Specialist
 Journalist*
 Manufacturer's Representative
 Sales Person
 Scientist Linguist
 Teacher/Professor*
 Translator/Interpreter*
 Travel Agent
 United Nations Guide
 *Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health, and well-being, professions and occupations, the arts, current events, and politics.
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city life health and well-being, professions and occupations, the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
History 105	Early Western Civilization	3
Russian 120	Russian I	5
Russian 121	Russian II	5
Russian 220	Russian III	5
Russian 221	Russian IV	5
Russian 250	Conversational Russian I	3
Russian 251	Conversational Russian II	3
Total		29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above qualifies for a Certificate of Achievement in Russian. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN SOCIOLGY FOR TRANSFER (A.A.-T)

The Associate in Arts in Sociology for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. A total of 18-19 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Sociology for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

Sociology is the study of human social life. It is a broad discipline, grounded in science, with many applications for daily life. A major in sociology offers a rigorous preparation to students planning undergraduate and graduate work in sociology, political science, and other social and behavioral sciences. In addition, sociological education is an excellent background for professional training in law, business, education, and social work. Majoring in sociology provides a solid liberal education, and it is an excellent choice for undergraduates who are planning careers in the private sector, government, and non-profit organizations.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Identify, explain, and compare and contrast the major theoretical perspectives in sociology.
2. Identify and explain the principles of social scientific research methodology.
3. Explain sociologically inequalities of class, race, ethnicity, gender, and age in modern and pre-modern societies. Use SPSS for the analysis of quantitative data.

Associate Degree Major Requirements

Required Core

Subject & Number	Title	Units
Sociology 120*	Introductory Sociology	3

List A

Select TWO (2) of the following:

Sociology 130*	Contemporary Social Problems	3
Sociology 215*	Statistics for Behavioral Sciences	4
or		
Math 160	Elementary Statistics	(4)
Psychology 205	Research Methods for Psychology	3
	Total	6-7

List B

Select TWO (2) of the following courses:

Any List A course not used above or:	
Sociology 114*	Introduction to the Sociology of Minority Group Relations
	3
Sociology 125*	Marriage, Family and Alternative Life Styles
	3
Sociology 138*	Social Psychology
Sociology 140*	Sex and Gender Across Cultures
	3
Total	6

List C

Select ONE (1) of the following courses:

Any course from List A or B not used above or:	
Anthropology 120*	Cultural Anthropology
Geography 130*	Human and Cultural Geography
Psychology 134*	Human Sexuality
	3
Total	3
Units for the major	18-19
Units for CSU GE or IGETC-CSU GE	37-39
Total units required for the degree	60

Complete transferable units as needed to reach 60.

* Courses that double count with CSU GE or IGETC-CSU GE.



ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER (A.A.-T)

The Associate in Arts in Spanish for Transfer (A.A.-T) degree is designed to facilitate transfer to a California State University in keeping with SB1440. A total of 23 units are required to fulfill the major portion of this degree. This degree reflects the Transfer Model Curriculum (TMC) supported by the statewide Academic Senate. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements (see the "General Education Requirements and Transfer Information" section of the catalog). A student may apply for this degree in conjunction with an Associate in Arts in Spanish degree provided the courses taken meet the requirements of both degrees. Students should speak with a counselor to verify that the requirements for either or both degrees have been met. In addition, students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Arts in Spanish for Transfer (A.A.-T) degree:

- (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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education- Breadth Requirement.
 - (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 are also required to earn a "C" grade or higher in all courses required for the major or area of emphasis.

This degree transfers to a university where one can continue work leading to a baccalaureate degree in Spanish, Spanish Literature, Linguistics, Latin American Studies, Comparative Literature, Translation and Interpretation, International Business and Bilingual Education. In addition, there are selected entry level positions in education and business open to the graduate with a degree in Spanish. Some individuals follow the steps necessary to go beyond an undergraduate degree and enter graduate schools leading to careers in higher education, Spanish Literature or Linguistics. For special requirements, the student should consult the baccalaureate granting institution he/she is considering for matriculation.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Think critically and effectively express in Spanish their views in written and verbal communication.
2. Compare and contrast the Hispanic culture with those of the learner in order to gain better understanding of the Spanish language, customs values, attitudes, patterns of behavior, and social mores.
3. Acquire and demonstrate a deeper understanding of the Spanish language, customs, geography, art, music, institutions and culture in general of the Spanish speaking countries in order to understand the current language and culture and how they have evolved.
4. Pursue advanced study in the Spanish language and relevant career-oriented programs.

Associate Degree Major Requirements

Note: All courses must be completed with a letter grade of "C" or higher.

Required Core

Subject & Number	Title	Units
Spanish 120*	Spanish I	5
Spanish 121*	Spanish II	5
Spanish 220*	Spanish III	5
or		
Spanish 122*	Spanish for the Native Speaker I	(5)
Spanish 221*	Spanish IV	5
or		
Spanish 123*	Spanish for the Native Speaker II	(5)
Total		20

List A: Select ONE (1) of the following:

Subject & Number	Title	Units
Spanish 250*	Conversational Spanish I	3
Spanish 251*	Conversational Spanish II	3
Cross Cultural Studies/ History 118*	U.S. History Chicano/ Chicana Perspectives I	3
Cross Cultural Studies/ History 119*	U.S. History Chicano/ Chicana Perspectives II	3
Spanish 141*	Spanish and Latin American Cultures	3
Total		3
Units for the major		23
Units for the CSU GE or IGETC-CSU GE		37-39
Total units required for the degree		60

Complete transferable units as needed to reach 60.

*Courses that double count with CSU GE or IGETC-CSU GE.

SPANISH

This program is designed to provide students with skills in understanding, speaking, reading, and writing Spanish. It also gives students a greater understanding of Spanish culture and civilization and prepares them for greater international and domestic career opportunities.

For the suggested sequence of courses to be taken and/or for assistance in transferring to a four-year institution, students should consult the Counseling Center or the Department of World Languages.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Bilingual Aide
Border Patrol Officer
Buyer
Court Interpreter*
Counseling
Customs Agent/Inspector
Foreign Exchange Clerk
Foreign Student Advisor*
Interpreter*
Journalist*
Museum Curator*
Physician*
Scientific Linguist*
Tour Guide
Tutor

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes

(PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Utilize more complex vocabulary and grammatical structures to communicate and discuss hypothetical situations dealing with nature, city, life, health, and well-being, professions and occupations, the arts, current events, and politics.
2. Utilize more complex vocabulary and grammatical structures to write about situations dealing with nature, city life, health and well-being, profession, and occupations, the arts, current events, and politics.
3. Use language and vocabulary skills developed in class to read, analyze, and interpret authentic texts.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Spanish 120	Spanish I	5
Spanish 121	Spanish II	5
Spanish 220	Spanish III	5
or		
Spanish 122	Spanish for the Native Speaker I	(5)
Spanish 221	Spanish IV	5
or		
Spanish 123	Spanish for the Native Speaker II	(5)
Spanish 250	Conversational Spanish I	3
Spanish 251	Conversational Spanish II	3
	Total	26

Select ONE (1) of the following courses:

Subject & Number	Title	Units
History 114	Comparative History of the Early Americas	3
History 115	Comparative History of the Modern Americas	3
History 126	History of Mexico	3
Spanish 141	Spanish and Latin American Cultures	3
Spanish 145	Hispanic Civilizations	3
Cross-Cultural Studies 118	U.S. History: The Chicano/Chicana Perspectives I	3
or		
History 118	U.S. History: Chicano/Chicana Perspectives I	3
Cross-Cultural Studies 119	U.S. History: Chicano/Chicana Perspectives II	3
or		
History 119	U.S. History: Chicano/Chicana Perspectives II	3
	Total Required	29
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who wishes to complete only the requirements listed above qualifies for a Certificate of Achievement in Spanish. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

SPEECH COMMUNICATION

See: Communication

TELECOMMUNICATIONS

See: Media Communications

THEATRE ARTS

The Theatre Arts major is designed to provide academic knowledge and practical technical training in all aspects of theatre arts at the entry level. The curriculum provides the essential lower division courses necessary for transfer to similar programs at four-year institutions, as well as assisting students towards employment in the professional and community theatre.

Career Opportunities

<http://www.grossmont.edu/student-services/offices-and-services/careercenter/resources/default.aspx>

Actor/Actress
Actors' Agent
Casting Director
Costume Designer*
Director*
Display Designer*
Light Technician*
Producer*
Production Stage Manager*
Sound Engineer
Special Effects Specialist*
Theatre Manager

*Bachelor's Degree or higher required.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree/certificate requirements in this program. Students will:

1. Demonstrate an appreciation of learning and create a diverse aesthetic for theatre and its place in culture and society.
2. Participate in high quality, accessible theatrical productions and present them at a reasonable cost for our students and the community at large.
3. Understand the proper artistic conduct in all academic and professional environments.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Theatre Arts 101	Introduction to Narrative Theory	3
Theatre Arts 110	Introduction to the Theatre	3
Theatre Arts 130	Acting I	3
Theatre Arts 134 A or B	Fundamentals of Costume Design and Construction I or II	3
or		
Theatre Arts 155	Stagecrafts	(3)
Theatre Arts 136	Theatre Makeup	2
Theatre Arts 143	Historic Costume for the Theatre	3
or		
Theatre Arts 144	20th Century Fashion and Costumes	(3)
	Total	20

Select ONE (1) of the following courses:

Theatre Arts 102A or B or C or D	Theatre Production Practicum: Costumes I or II or III or IV	2
Theatre Arts 103A or B or C or D	Theatre Production Practicum: Sets I or II or III or IV	2
Theatre Arts 104A or B or C or D	Theatre Production Practicum: Lighting/Sound I or II or III or IV	2
Theatre Arts 111A or B or C or D	Rehearsal and Performance: Acting I or II or III or IV	2
Theatre Arts 112A or B or C or D	Rehearsal and Performance: Stage Management I or II or III or IV	2
Theatre Arts 113A or B or C or D	Rehearsal and Performance: Production Crew I or II or III or IV	2
	Total	2

Note: Plus one area of emphasis selected from the following:

Area of Emphasis

Acting

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Theatre Arts 115	Voice and Movement for the Stage	3
or		
Theatre Arts 119A or B	Theatre Mime I or II	(3)
Theatre Arts 131	Acting II	3
Theatre Arts 207 or 208	Techniques of Directing I or II	3

Theatre Arts 230 or Theatre Arts 132	Acting III	3
	Acting for the Camera	(3)
	Total	12
	Total Required	31
	Plus General Education and Elective Requirements	

Recommended Electives:

Subject & Number	Title	Units
Theatre Arts 111A or B or C or D	Rehearsal Performance Acting I or II or III or IV	2

Area of Emphasis

Technical

Note: All courses must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Theatre Arts 134A or B	Fundamentals of Costume Design and Construction I or II	3
or		
Theatre Arts 156	Fundamentals of Scenic Design	(3)
Theatre Arts 137	Theatre Makeup II	2
or		
Theatre Arts 157	Fundamentals of Stage Lighting and Sound Design	(3)
Theatre Arts 254A or B	Advanced Design I or II	3
	Total	8-9
	Total Required	30-31
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above under Theatre Arts core curriculum plus one of the areas of emphasis qualifies for a Certificate of Achievement in Theatre Arts, Acting or Theatre Arts, Technical. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

Technical Training Program

The Theatre Arts Technical Training Program is designed to provide technical theatre skills and practical technical theatre training in all aspects of Technical Theatre. The curriculum prepares students for entry-level technical employment in the professional and community theatre.

Associate Degree Major Requirements

Note: All courses in the major must be completed with a letter grade of "C" or higher.

Subject & Number	Title	Units
Theatre Arts 101	Introduction to Narrative Theory	3
Theatre Arts 134A or B	Fundamentals of Costume Design and Construction I or II	3
Theatre Arts 136	Theatre Makeup	2
or		
Theatre Arts 140A or B	Costume Patternmaking I or II	(2)
Theatre Arts 155	Stagecrafts	3
Theatre Arts 156	Fundamentals of Scenic Design	3

Theatre Arts 157	Fundamentals of Stage Lighting and Sound	3
Theatre Arts 241	Theatre Arts Technical Internship	1
or		
Theatre Arts 242	Theatre Arts Technical Internship	(2)
or		
Theatre Arts 243	Theatre Arts Technical Internship	(3)
	Total Required	18-20

Select FOUR (4) courses from the following:

Theatre Arts 102A or B or C or D	Theatre Production Practicum: Costumes I or II or III or IV	2
Theatre Arts 103A or B or C or D	Theatre Production Practicum: Sets I or II or III or IV	2
Theatre Arts 104A or B or C or D	Theatre Production Practicum: Lighting/Sound I or II or III or IV	2
	Total	8
	Total Required	27-30
	Plus General Education and Elective Requirements	

Certificate of Achievement

Any student who chooses to complete only the requirements listed above under Theatre Arts Technical Training Program qualifies for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.

UNIVERSITY STUDIES

The Associate Degree in University Studies with five areas of emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. Students can refer to www.ASSIST.org and the Grossmont College Articulation Web Site: www.grossmont.edu/articulation for current articulation of courses required for transfer majors.

Students who intend to transfer must complete a minimum of 37- 39 units of general education depending on the transfer pattern. This may result in more than 60 units for the associate degree. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

To meet the University Studies Degree requirements, a student must complete the following:

I. California State University (CSU) General Education Breadth

1. Complete CSU General Education Breadth (see Transfer Information and Degree Requirements in college catalog).
2. Earn a grade of "C" or higher for all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Complete a minimum of 18 units in an area of emphasis (listed below) with a "C" grade or higher.
4. Complete a minimum of 60 degree applicable CSU transferable semester units. (All courses included

in each area of emphasis are CSU transferable.) Additional CSU transferable units may be chosen as electives.

5. Earn a cumulative GPA of 2.0 in all college coursework completed.
6. Meet Grossmont College residence requirements for graduation (see Degree Requirements in college catalog).
7. CSU STEM is not applicable to a University Studies Degree.

OR

II. Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC

1. Complete IGETC Certification (see Transfer Information and Degree Requirements in college catalog).
2. Earn a grade of "C" or higher in all IGETC courses.
3. Complete a minimum of 18 units in an area of emphasis (listed below) with a "C" grade or higher.
4. Complete a minimum of 60 degree applicable UC transferable semester.

Courses that are non-UC transferable are indicated by (*). Additional UC transferable units may be chosen as electives.

5. Earn a cumulative GPA of 2.0 in all college coursework completed.
6. Meet Grossmont College residence requirements for graduation (see Degree Requirements in college catalog).
7. IGETC STEM is not applicable to a University Studies Degree.

AND

III. Area of Emphasis

Select one area of emphasis with a minimum of 18 units required from the list below

- A. Business and Economics
- B. Communication and Language Arts
- C. Humanities and Fine Arts
- D. Mathematics, Natural Science and Computer Science
- E. Social and Behavioral Sciences

AND

IV. Fitness/ Wellness

Select one of the following options:

1. Take any TWO exercise science or dance courses designated as meeting the GE requirement. (See college catalog for Associate Degree GE requirements.)
2. Take ONE fitness course, chosen from the following: ES 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 028A, 028B, 028C, 029, 040A, 040B, 040C, 041, 044A, 044B, 044C
- or
3. Take Health Education 120.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Cross-listed courses receive credit for only one course. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the Associate Degree. Completion of the University Studies Degree does not guarantee admission to a four-year institution.

Note: All courses in the area of emphasis must be completed with a letter grade of "C" or higher.

A. Business and Economics - AA

The Program-level Student Learning Outcomes (PSLOs) are outcomes that students who complete a degree/certificate in this program will be able to achieve upon degree/certificate completion. The PSLOs for the University Studies degree in BUSINESS AND ECONOMICS are:

1. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies
2. Students will evaluate and interpret basic economic principles and theories related to performance and specific economic sectors

A minimum of 18 units required. Courses in this area of emphasis focus on the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students apply mathematical and quantitative reasoning skills to the discipline's methodologies, and evaluate and interpret basic economic principles and theories related to performance and specific economic sectors. Students completing this area may be interested in the following baccalaureate majors: accounting, business, economics, finance, information and decision systems, international business, hospitality/tourism, management, and marketing. Students must complete a minimum of six units in business, six units in economics, and six units of electives from the following.

Note: All courses in the area of emphasis must be completed with a letter grade of "C" or higher.

Business

BUS 110, 120, 121, 125, 128*, 158*, 160*

Economics

ECON 110, 120, 121, 261

Electives

CSIS 110

ECON 215

LIR 110*

MATH 160, 175, 178, 180, 280, 281

*Non-UC transferable course

B. Communication and Language Arts - AA

The Program-level Student Learning Outcomes (PSLOs) are outcomes that students who complete a degree/certificate in this program will be able to achieve upon degree/certificate completion. The PSLOs for the University Studies degree in COMMUNICATION AND LANGUAGE ARTS are:

1. Students will explore and analyze written and verbal communication methods
2. Students will develop and advance their oral and written communication skills.

A minimum of 18 units required. Courses in this area of emphasis focus on the study of how language works to express human ideas and feelings. Students explore and analyze written and verbal communication methods, as well as develop and advance their oral and written communication skills. Students completing this area may be interested in the following baccalaureate majors: American Sign Language, communication, English, foreign language, literature, journalism, linguistics and media/film/television. Students must complete a minimum of six units in communication and six units in

language arts. The remaining six units may be taken from either category.

Note: All courses must be completed with a letter grade of "C" or higher.

Communication

CCS 144

COMM 120, 122, 123, 124, 128, 135, 136, 137, 144, 145

MCOM 110, 111, 112*, 116*, 117*, 118*, 120, 189

Language Arts

ARBC 120, 121, 122, 123, 148, 220, 221, 250, 251

ASL 120, 121, 140, 220, 221

CCS 122, 123

CHIN 120, 121, 220, 221, 250, 251

ENGL 112*, 118, 122, 124, 126, 130, 131, 132, 133, 140, 141, 142, 143, 215, 219, 221, 222, 225, 226, 227, 228, 231, 232

FREN 120, 121, 220, 221, 250, 251

GERM 120, 121, 220, 221, 250, 251

ITAL 120, 121, 220, 221, 250, 251

JAPN 120, 121, 220, 221, 250, 251

RUSS 120, 121, 220, 221, 250, 251

SPAN 120, 121, 122, 123, 220, 221, 250, 251

*Non-UC transferable course

C. Humanities and Fine Arts - AA

The Program-level Student Learning Outcomes (PSLOs) are outcomes that students who complete a degree/certificate in this program will be able to achieve upon degree/certificate completion. The PSLOs for the University Studies degree in HUMANITIES AND FINE ARTS are:

1. Students will evaluate and interpret the ways in which people through the ages in different cultures responded to themselves and the world around them through artistic and cultural creation.
2. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments.

A minimum of 18 units required. Courses in this area of emphasis relate to the study of cultural, humanistic activities, and artistic expression of human beings.

Students evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students develop an aesthetic awareness and incorporate these concepts when constructing value judgments. Students completing this area may be interested in the following baccalaureate majors: art, dance, humanities, music, musical theatre, photography, philosophy, religious studies, and theatre arts. Students must complete a minimum of six units in Humanities and six units in Fine Arts. The remaining six units may be taken from either category.

Note: All courses must be completed with a letter grade of "C" or higher.

Humanities

ARBC 120, 121, 122, 123, 220, 221, 250, 251

ASL 120, 121, 140, 220, 221

CHIN 120, 121, 220, 221, 250, 251

CCS 122, 123, 127, 135, 145, 147, 149, 152, 236, 237, 238

ENGL 112*, 118, 122, 201, 215, 217, 218, 219, 221, 222, 225, 226, 227, 228, 231, 232, 236, 237, 238, 241, 242

FREN 120, 121, 152, 220, 221, 250, 251

GERM 120, 121, 220, 221, 250, 251

HIST 100, 101, 103, 105, 106, 126, 135, 136, 137, 148

HUM 110, 120, 125, 130, 135, 140*, 160, 170

ITAL 120, 121, 220, 221, 250, 251

JAPN 120, 121, 149, 220, 221, 250, 251

PHIL 110, 111, 112, 114, 116, 118, 125, 130, 140, 141, 145, 150, 155
 RELG 120, 130, 140, 150, 170
 RUSS 120, 121, 220, 221, 250, 251
 SPAN 120, 121, 122, 123, 141, 145*, 220, 221, 250, 251
Fine Arts
 ART 100, 120, 121, 124, 125, 126, 127, 128, 129, 130, 131*, 132*, 133*, 140, 141, 142, 143, 145, 146, 147, 172, 189
 CCS 126, 134
 DANC 068, 071AB, 072AB, 080A-D, 081A-D, 082AB, 084A-D, 088A-D, 094A-D, 099ABC, 110, 120*, 205, 206
 MCOM 189
 MUS 101, 102, 105, 106, 110, 111, 114, 115, 116, 117, 123, 124, 125, 126, 127, 128, 129, 130, 132, 133, 134, 135, 136, 137, 138, 139, 140*, 141*, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 160*, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 180, 181, 189, 190, 191, 201, 202, 203, 204, 205, 206, 210, 211, 212, 213, 224, 226, 232, 233, 236, 237, 238, 239, 240, 241*, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 290, 291
 PHOT 150, 151, 152*, 154
 THTR 101, 102A, 103A, 104A, 110, 111A, 111B, 111C, 111D, 112A, 112B, 112C, 112D, 113A, 113B, 113C, 113D, 115, 119A, 119B, 122A, 122B, 122C, 122D, 123A, 123B, 123C, 123D, 124A, 124B, 124C, 124D, 130, 131, 134A, 134B, 136, 137, 143, 144, 145, 146, 147, 148, 155, 156, 157, 189, 207, 208, 230, 234A, 234B, 235A, 235B, 254A, 254B

*Non-UC transferable course

D. Mathematics and Natural Science and Computer Science - AS

The Program-level Student Learning Outcomes

(PSLOs) are outcomes that students who complete a degree/certificate in this program will be able to achieve upon degree/certificate completion. The PSLOs for the University Studies degree in MATHEMATICS, NATURAL SCIENCE, AND COMPUTER SCIENCE are:

1. Students will recognize and utilize the methodologies of science as investigative tools.
2. Students will use basic mathematical skills to solve numerical problems encountered in daily life, and more advanced skills for applications in the physical and life sciences.

A minimum of 18 units required. Courses in this area of emphasis focus on the study of mathematical and quantitative reasoning skills and apply the facts and principles that form the foundations of living and non-living systems. Students recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students use basic mathematical skills to solve numerical problems encountered in daily life, and more advanced skills for applications in the physical and life sciences. Students completing this area may be interested in the following baccalaureate majors: astronomy, biological sciences, chemistry, computer science, engineering, geography, geology, mathematics, oceanography, physical science, and physics. Students must complete a minimum of six units in Mathematics, and a minimum of six units in Natural Science or Computer Science. The remaining six units may be taken from either of the categories: Mathematics, Natural Science or Computer Science.

Note: All courses must be completed with a letter grade of "C" or higher.

Mathematics

ANTH 215
 BIO 215
 MATH 150, 160, 170*, 175, 176, 177, 178, 180, 245, 280, 281, 284, 285
 PSC 120
 PSY 215
 SOC 215

Natural Science

ANTH 130, 131
 ASTR 110, 112, 120
 BIO 105, 110, 112, 114, 118, 120, 140, 141, 141L, 144, 145, 152*, 230, 240
 CHEM 102, 110, 113, 115, 116, 120, 141, 142, 231, 232, 241*, 241L*, 242*, 242L*
 GEOG 104, 106, 120, 121, 130, 140, 150, 170
 GEOL 104, 110, 111, 121, 150, 210, 230
 OCEA 112, 113, 150
 PHYC 110, 130, 131, 140, 240, 241
 PSC 100, 110, 111
 SCI 110

Computer Science

CSIS 165, 293, 294, 296, 297

*Non-UC transferable course

E. Social and Behavioral Sciences - AA

The Program-level Student Learning Outcomes (PSLOs) are outcomes that students who complete a degree/certificate in this program will be able to achieve upon degree/certificate completion. The PSLOs for the University Studies degree in SOCIAL AND BEHAVIORAL SCIENCES are:

1. Students will evaluate and interpret human societies; the institutions, organizations, and the groups that form them; and the ways in which individuals and groups relate to one another.
2. Students will evaluate various approaches and methodologies of the disciplines.

A minimum of 18 units required. Courses in this area of emphasis focus on the study and understanding of human behavior. Students evaluate and interpret human societies; the institutions, organizations, and the groups that form them; and the ways in which individuals and groups relate to one another. Students evaluate various approaches and methodologies of the disciplines. Students completing this area may be interested in the following baccalaureate majors: anthropology, child development, criminal justice, education, ethnic studies, history, nutrition, political science, psychology, public health, social work, and sociology. Students must complete a minimum of six units in Social Science and six units in Behavioral Science. The remaining six units may be taken from either category:

Note: All courses must be completed with a letter grade of "C" or higher.

Social Sciences

AOJ 110, 200, 240
ANTH 120, 140
COMM 144
CCS 114, 115, 116*, 118, 119, 124, 125, 128, 130, 131, 132, 133, 135, 143, 144, 145, 147, 152, 154, 155, 180, 181
ECON 110, 120, 121, 261
GEOG 100*, 101*, 106, 130, 170
HIST 100, 101, 103, 105, 106, 108, 109, 113, 114, 115, 118, 119, 122, 123, 124, 126, 130, 131, 136, 137, 148, 154, 155, 180, 181
POSC 120, 121, 124, 130, 140, 150, 155, 160
SOC 114
SPAN 145*

Behavioral Sciences

CCS 125
CD 115, 125, 131, 145
COMM 124, 128
ED 200
FS 115, 120
HED 120, 155, 201, 255
PSY 120, 125, 134, 138, 140, 150, 170, 220
SOC 120, 125, 130, 138, 140

*Non-UC transferable course

Certificate of Achievement

Students who complete the CSU General Education Breadth requirements or the IGETC for CSU or UC requirements are eligible to receive a Certificate of Achievement in University Studies. An official request must be filed with the Admission and Records Office prior to the deadline as stated in the Academic Calendar.

Note: All courses must be completed with a letter grade of "C" or higher.