

ASSOCIATE DEGREE PROGRAMS



60th
ANNIVERSARY

ASSOCIATE DEGREE PROGRAMS CERTIFICATES OF ACHIEVEMENT CERTIFICATES OF PROFICIENCY

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

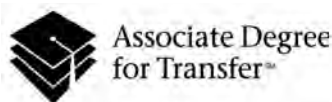
Courses that satisfy a degree or certificate requirement must be completed with a letter grade of "C" or higher.

| | |
|--|----|
| * Administration of Justice, Associate in Science for Transfer, AS-T | 61 |
| Administration of Justice | 61 |
| * Law Enforcement | 62 |
| * Corrections | 62 |
| * Forensic Technology | 63 |
| * Security Management | 63 |
| + American Sign Language | 63 |
| + Anthropology, Associate in Arts for Transfer, AA-T | 64 |
| + Arabic | 66 |
| ◆ Basic Arabic for Healthcare Professionals | 66 |
| + Art History, Associate in Arts for Transfer, AA-T | 67 |
| + Studio Art, Associate in Arts for Transfer, AA-T | 68 |
| Art | 69 |
| + Ceramics | 69 |
| + Digital Art | 70 |
| + Drawing and Painting | 70 |
| + Photography | 70 |
| + Sculpture – Public Art | 70 |
| * Biology, Associate in Science for Transfer, AS-T | 71 |
| * Biological Sciences | 72 |
| * Business Administration, Associate in Science for Transfer, AS-T | 73 |
| ◆ Business Administration | 73 |
| * Business – General | 74 |
| ◆ Insurance Services | 75 |
| Business Office Technology | 75 |
| * Administrative Assistant | 75 |
| * Executive Assistant | 76 |
| • Business Information Worker | 76 |
| ◆ Account Clerk | 77 |
| ◆ Front Office/Receptionist | 77 |
| ◆ Medical Office Assistant | 77 |
| ◆ Office Assistant, Level I | 78 |
| ◆ Office Assistant, Level II | 78 |
| ◆ Office Professional | 78 |
| ◆ Office Software Specialist, Level I | 79 |
| ◆ Office Software Specialist, Level II | 79 |
| ◆ Virtual Office Assistant | 80 |
| Cardiovascular Technology | 80 |
| Invasive | 82 |
| * Adult Echocardiography | 83 |
| * Vascular Technology | 83 |
| • Telemetry/ ECG Technician | 83 |
| * Chemistry | 83 |
| Child Development | 84 |
| * Child Development Master Teacher | 85 |
| * Child Development Site Supervisor | 85 |
| ◆ Associate Teacher | 86 |
| * Early Childhood Education Associate in Science for Transfer, AS-T | 86 |
| + Communication Studies, Associate in Arts for Transfer, AA-T | 87 |
| + Communication | 88 |
| + Computer Science, Associate in Science for Transfer AS-T | 89 |
| Computer Science Information Systems | 89 |
| * Computer Programming | 90 |
| * Cybersecurity and Networking | 91 |
| * Web Design and Development | 91 |
| * Information Technology Support Specialist | 91 |
| • Data Science | 92 |
| ◆ Information Technology Technician | 93 |
| ◆ Network and Cybersecurity Technician | 93 |
| • Programmable Logic Controllers | 93 |
| Cross-Cultural Studies | 93 |
| ◆ Cross-Cultural Competence | 94 |
| ◆ Cross-Cultural Communication Skills | 94 |
| ◆ Cross-Cultural Skills with Conversational-Level Second Language | 94 |
| * Culinary Arts | 95 |
| * Pastry Arts | 96 |
| * Culinary Entrepreneurship | 96 |
| • Banquet Cook | 97 |
| • Line Cook | 97 |
| • Pastry Cook | 97 |
| • Prep Cook | 97 |
| + Dance | 98 |

| | |
|---|-----|
| * Disability Services Management | 99 |
| + Economics, Associate in Arts for Transfer, AA-T | 99 |
| + Economics | 100 |
| + English, Associate in Arts for Transfer, AA-T | 101 |
| + English | 103 |
| + Creative Writing | 103 |
| * Exercise Science and Wellness | 104 |
| ◆ Fitness Specialist Certification | 105 |
| + Kinesiology, Associate in Arts for Transfer AA-T | 106 |
| + French | 107 |
| General Studies | |
| + Humanities and Fine Arts | 108 |
| + Science and Quantitative Reasoning | 108 |
| + Social and Behavioral Sciences | 109 |
| + Wellness and Self-Development | 109 |
| + Geography, Associate in Science for Transfer, AA-T | 110 |
| + Global Studies, Associate in Arts for Transfer AA-T | 110 |
| * Geography | 111 |
| ◆ Administration of Justice Geospatial Literacy Certificate | 113 |
| ◆ Educators Global Awareness | 112 |
| ◆ Geographic Information Systems Literacy | 112 |
| ◆ Global Awareness and Appreciation | 113 |
| * Geology, Associate in Science for Transfer, AS-T | 113 |
| * Geology | 114 |
| + German | 115 |
| + History, Associate in Arts for Transfer, AA-T | 115 |
| * Hospitality and Tourism Management | 117 |
| * International Business | 117 |
| + Japanese | 118 |
| + Journalism, Associate in Arts for Transfer, AA-T | 119 |
| * Management | 120 |
| * Marketing | 120 |
| * Mathematics, Associate in Science for Transfer, AS-T | 121 |
| * Mathematics | 122 |
| Media Communications | 123 |
| * Audio Production | 123 |
| * Cross Media Journalism | 124 |
| * Video Production | 124 |
| + Music, Associate in Arts for Transfer, AA-T | 124 |
| Music | 125 |
| + Classical Studies | 125 |
| + Musical Theatre | 126 |
| * Nursing | 127 |
| * Occupational Therapy Assistant | 129 |
| * Oceanography | 132 |
| * Orthopedic Technology | 133 |
| + Philosophy, Associate in Arts for Transfer, AA-T | 135 |
| + Philosophy | 136 |
| * Physics, Associate in Science for Transfer, AS-T | 137 |
| * Physics | 137 |
| + Political Science, Associate in Arts for Transfer, AA-T | 138 |
| + Political Science | 139 |
| + Psychology, Associate in Arts for Transfer, AA-T | 140 |
| * Respiratory Therapy | 141 |
| ◆ Sleep Disorders, Diagnostic Procedures, and Treatments | 143 |
| * Retail Management | 143 |
| + Russian | 144 |
| + Sociology, Associate in Arts for Transfer, AA-T | 144 |
| + Spanish, Associate in Arts for Transfer, AA-T | 145 |
| + Spanish | 146 |
| + Theatre Arts, Associate in Arts for Transfer AA-T | 147 |
| Theatre Arts | 148 |
| + Acting | 149 |
| + Technical | 149 |
| + Technical Training Program | 149 |
| • University Studies | 150 |
| + Business and Economics | 150 |
| + Communication and Language Arts | 151 |
| + Humanities and Fine Arts | 151 |
| + Mathematics and Natural Science and Computer Science | 152 |
| + Social and Behavioral Sciences | 152 |

* 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 IN SCIENCE ADMINISTRATION OF JUSTICE FOR TRANSFER (AS-T)

The Administration of Justice for Transfer (AS-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 (AS-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 or "Pass" in all courses required for the major.

The Associate in Science in Administration of Justice for Transfer (AS-T) 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 specific degree / certificate requirements in this program. Students will:

1. Demonstrate knowledge, skills, and abilities relevant to the AOJ degree program completed.
2. Demonstrate ethical and professional behavior.
3. Communicate effectively, in written, verbal and non-verbal forms.
4. Identify the major components of the criminal justice system, current and historical, including laws enforcement, courts and corrections.
5. Describe and/or demonstrate the stages of a criminal investigation and the protocol of evidence collection, preservation, and analysis.

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 |
| | Introductory Sociology | 3 |
| Sociology 120 | Contemporary Social Problems | 3 |
| Sociology 130 | 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.

ADMINISTRATION OF JUSTICE

Students planning careers in Administration of Justice may elect a program from the four 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 Public Safety 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 abilities 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. Identify the major components of the criminal justice system, current and historical, including laws enforcement, courts and corrections.
5. Describe and/or demonstrate the stages of a criminal investigation and the protocol of evidence collection, preservation, and analysis.

Associate Degree Major Requirements

Core Curriculum

For Law Enforcement area 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 | Community 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 120 | Community Policing and Patrol Procedures | 3 |
| Adm. of Justice 122 | Traffic Law & Enforcement | 3 |
| Adm. of Justice 143 | Gangs and Law Enforcement | 3 |
| Adm. of Justice 144 | Probation and Parole | 3 |
| Adm. of Justice 155 | Digital Investigations | 3 |
| Adm. of Justice 206 | Criminal Investigation | 3 |
| Adm. of Justice 208 | Juvenile Procedures | 3 |
| Adm. of Justice 210 | Leadership in Criminal Justice | 3 |
| Adm. of Justice 214 | Public Service Internship | 2 |
| Adm. of Justice 215 | Public Service Internship | 2 |
| Adm. of Justice 264 | Terrorism and Homeland Security | 3 |
| | Total | 12 |
| | Total Required | 30 |
| | 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.

Corrections

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 125 | Introduction to Corrections | 3 |
| Adm. of Justice 140 | Inmate Psychology and Supervision | 3 |
| Adm. of Justice 143 | Gangs and Law Enforcement | 3 |
| Adm. of Justice 144 | Probation and Parole | 3 |
| Adm. of Justice 200 | Criminal Law | 3 |
| Adm. of Justice 202 | Criminal Evidence | 3 |
| or | | |
| Adm. of Justice 204 | Criminal Trial Process | (3) |
| Adm. of Justice 208 | Juvenile Procedures | 3 |
| Adm. of Justice 210 | Leadership in Criminal Justice | 3 |
| or | | |
| Adm. of Justice 214 | Public Service Internship | (2) |
| or | | |
| Adm. of Justice 215 | Public Service Internship | (2) |
| | Total | 26 or 27 |
| | 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 Administration of Justice: Corrections. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

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 200 | Criminal Law | 3 |
| Adm. of Justice 202 | Criminal Evidence | 3 |
| Adm. of Justice 206 | Criminal Investigation | 3 |
| Adm. of Justice 218 | Crime Scene Technology | 4 |
| Adm. of Justice 220 | Forensic Analysis | 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 | 42 |
| | 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 | Leadership in Criminal Justice | 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.

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 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 |
| Psychology 120 | Introduction to Psychology | 3 |
| | Total | 28 |
| | 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 (AA-T)

The Associate in Arts in Anthropology for Transfer (AA-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 (AA-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 or "Pass" in all courses required for 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 | <u>Introduction to Archaeology</u> | <u>3</u> |
| | 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 | <u>Elementary Statistics</u> | <u>(4)</u> |
| | Total | 4 |

List B (3-5 units)

Select ONE (1) to TWO (2) (3-5 units) or any List A course not already used:

| | | |
|----------------|--|-------|
| 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 |
| | Units for the major | 19-21 |
| | Units for CSU GE or IGETC – CSU GE | 37-39 |
| | Total units required for the degree | 60 |

List C (3 units)

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

| | | |
|----------------------------|---|-------|
| Anthropology 122 | Anthropology of Magic, Witchcraft, and Religion | 3 |
| Anthropology 127 | Cultures of Latin America | 3 |
| 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 |
| Sociology 140 | Sex and Gender Across Cultures | 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.

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 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 |
|------------------|---|-------|
| 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 Arabic Speaker I | (5) |
| Arabic 221 | Arabic IV | 5 |
| or | | |
| Arabic 123 | Arabic for the 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.

Certificate of Proficiency

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.

Basic Arabic for Healthcare Professionals

A certificate of proficiency is awarded to a student who completes Basic Arabic for Healthcare Professionals. This course is designed for healthcare professionals who would like to have a better understanding of the language and culture of the Arabic-speaking patient and to communicate in Arabic with them.

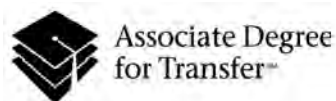
Program Student Learning Outcomes

Upon completing the course, the student will be able to:

- A. Comprehend most basic medical terms and communicate with the patient in simple and meaningful spoken Arabic.
- B. Use the target language effectively with patients in basic healthcare situation.
- C. Communicate effectively with family members when sharing basic medical information.
- D. Assist both the patient and doctor in the doctor's office.

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

| Subject & Number | Title | Units |
|------------------|---|-------|
| Arabic 161 | Basic Arabic for Healthcare Professionals | 1 |
| | Total | 1 |



ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER (AA-T)

The Associate in Arts in Art History for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

The AA-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 | Survey of Western Art I: Prehistory through Middle Ages | 3 |
| Art 141 | Survey of Western Art II: Renaissance through Modern 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 | 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.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN STUDIO ART FOR TRANSFER (AA-T)

The Associate in Arts in Studio Art for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

The AA-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. Analyze and critically evaluate style and composition of artworks through written, verbal, and creative means.
2. Explore, evaluate, analyze artwork within local and global contextual frameworks.
3. Investigate, examine, and practice the creative process and motivations of art makers.

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 | Survey of Western Art II: <u>Renaissance through Modern</u> | 3 |
| | Total | 12 |

List A

Select ONE (1) of the following courses:

| | | |
|---------|--|---|
| Art 140 | Survey of Western Art I: Prehistory through Middle Ages | 3 |
| Art 142 | Art of Africa, Oceania and the Americas | 3 |
| Art 143 | Modern Art | 3 |
| Art 145 | Contemporary Art | 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.

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 Historian*

Art Educator*

Art Therapist*

Ceramist

Curator*

Cartoonist+

Designer+

Fashion

Floral

Graphic

Interior

Set

Display Manager

Face Painter

Layout Artist

Make-up Artist

Museum Curator*

Museum Director*

Museum Technician

Painter

Photographer

Police Artist

Sculptor

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. Analyze and critically evaluate style and composition of artworks through written, verbal, and creative means.
2. Explore, evaluate, analyze artwork within local and global contextual frameworks.
3. Investigate, examine, and practice the creative process and motivations of art makers.

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 | Survey of Western Art I: Prehistory through Middle Ages | 3 |
| or | | |
| Art 141 | Survey of Western Art II: Renaissance through Modern | (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 FOUR (4) of the following:

| | | |
|---------|----------------------------------|---|
| Art 104 | Artists and Designers Today | 3 |
| Art 119 | Color Theory | 3 |
| Art 121 | Painting I | 3 |
| Art 172 | Web and Portfolio Design | 3 |
| Art 177 | Digital Drawing and Painting | 3 |
| Art 184 | Introduction to Animation | 3 |
| Art 230 | Figure Drawing I | 3 |
| Art 240 | Portraiture and Character Design | 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 220 | Painting II | 3 |
| or | | |
| Art 230 | Figure Drawing I | (3) |

Select THREE (3) of the following:

| | | |
|---------|--|----|
| Art 104 | Artists and Designers Today | 3 |
| Art 106 | Introduction to Mural Painting and Design | 3 |
| Art 119 | Color Theory | 3 |
| Art 210 | Introduction to Printmaking | 3 |
| Art 221 | Painting III | 3 |
| Art 222 | Painting IV | 3 |
| Art 231 | Figure Drawing II | 3 |
| Art 240 | Portraiture and Character Design | 3 |
| | Total | 18 |
| | Plus Core | 12 |
| | Total Required | 30 |
| | 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)

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 | Survey of Western Art I: Prehistory through Middle Ages | 3 |
| or | | |
| Art 141 | Survey of Western Art II: Renaissance through Modern | (3) |
| Photography 150 | Introduction to Photography | 3 |
| Photography 154 | History of Photography | 3 |
| Photography 166 | Image and Idea | 3 |
| Photography 252 | Photographer's Portfolio | 3 |
| | Total required | 21 |
| | Plus General Education and Elective Requirements | |

Select a minimum of NINE (9) units from the following courses:

| | | |
|-----------------|--|----|
| Art 171 | Introduction to Digital Art | 3 |
| Art 210 | Introduction to Printmaking | 3 |
| Photography 151 | Personal Photographic Vision | 3 |
| Photography 152 | Contemporary Photographic Practice | 3 |
| Photography 166 | Image and Idea | 3 |
| | Total | 9 |
| | 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.



Associate Degree
for Transfer™

ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER (AS-T)

The Associate in Science in Biology for Transfer (AS-T) Degree is designed to facilitate transfer to a California State University in keeping with SB 1440. A total of 35 units are required to fulfill the major portion of this degree. Students must also complete the Intersegmental General Education Transfer Curriculum (IGETC) STEM (Science, Technology, Engineering, and Math) requirements or the California State University System (CSU) STEM requirements (see the "General Education Requirements and Transfer Information" section of the catalog).

Students should speak with a counselor to verify that the requirements for this degree have been met.

The following requirements must be met to be awarded an Associate in Science in Biology for Transfer (AS-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 or "Pass" in all courses required for the major.

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 requirement for the California State University system. Students should check the catalog of the transfer school being considered for its specific requirements and speak with a counselor.

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. Explain how differences are the result of changes in characteristics due to natural selection and other forces of evolution.
2. Compare and contrast the ways that different kinds of cells, organisms or the community take in, use, and transfer energy to meet their metabolic needs (Homeostasis).
3. Describe how genetic information is stored, expressed, and transferred to offspring.
4. Explain how a specific structure has a specific function based on its characteristics.
5. Explain how molecules, cells, organs and/or organisms interact with one another and their environments.

Associate Degree Major Requirements

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

Required Core

| Subject & Number | Title | Units |
|------------------|--|-------|
| Biology 230 | Principles of Cellular, Molecular and Evolutionary Biology | 4 |
| Biology 240 | Principles of Ecology, Evolution and Organismal Biology | 5 |
| | Total | 9 |

List A:

| | | |
|-----------------|----------------------------------|----|
| Chemistry 141 | General Chemistry I | 5 |
| Chemistry 142 | General Chemistry II | 5 |
| Mathematics 180 | Analytical Geometry & Calculus I | 5 |
| Physics 130 | Fundamentals of Physics | 4 |
| Physics 131 | Fundamentals of Physics | 4 |
| | Total | 23 |

List B:

| | | |
|-------------|--|-------|
| Biology 215 | Statistics for Life Sciences | 3 |
| | Total | 3 |
| | Units for the major | 35 |
| | Units for CSU GE STEM or IGETC-CSU GE STEM | 33-31 |
| | Total units required for the degree | 60 |

Complete transferable units as needed to reach 60.

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. Explain how differences are the result of changes in characteristics due to natural selection and other forces of evolution.
2. Compare and contrast the ways that different kinds of cells, organisms or the community take in, use, and transfer energy to meet their metabolic needs (Homeostasis).
3. Describe how genetic information is stored, expressed, and transferred to offspring.
4. Explain how a specific structure has a specific function based on its characteristics.
5. Explain how molecules, cells, organs and/or organisms interact with one another and their 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 |
|-------------------|--|-------|
| 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 |
| or | | |
| Chemistry 241 and | Organic Chemistry I Lecture | (3) |
| Chemistry 241L | Organic Chemistry I Laboratory | (2) |
| 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 (AS-T)

The Associate in Science in Business Administration for Transfer (AS-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 (AS-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 or "Pass" in all courses required for the major.

The Associate in Science in Business Administration for Transfer (AS-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:

| | | |
|-----------------|-----------------------|----------|
| Mathematics 160 | Elementary Statistics | 4 |
| Mathematics 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 Systems | 4 |
| Information Systems 110 | | |
| | Total | 7-8 |
| | Units for the major | 28-29 |
| | 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.

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 | Elementary Accounting | 3 |
| or | | |
| 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 | Business Communication | 3 |
| or | | |
| Business Office Technology 110 | Business English and Communications | (3) |
| Business 146 | Marketing | 3 |
| Business 152 | Business Mathematics | 2 |
| Business 195 | Principles of Money Management for Success | 3 |
| Business Office Technology 172 | Introduction to Microcomputer Applications | 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

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.

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 a 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 100 | Basic Keyboarding | 1 |
| Business Office Technology 101A | 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 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 or Business Office Technology 123 and 124 and 125 | Essential Excel | 1 |
| Business Office Technology 116 or Business Office Technology 126 and 127 and 128 | Comprehensive Excel, Levels I and II and III | (3) |
| Business Office Technology 117 or Business Office Technology 129 and 130 | Essential Access | 1 |
| | Comprehensive Access, Levels I and II and III | (3) |
| | Essential PowerPoint | 1 |
| | Comprehensive PowerPoint, Levels I and II | (2) |

| | | |
|--------------------------------|----------------------------------|--------------|
| Business Office Technology 118 | Integrated Office Projects | 1 |
| or | | |
| Business Office Technology 132 | Google Applications for Business | (3) |
| Business Office Technology 151 | Using Microsoft Outlook | 1 |
| | Total | 20-27 |

Select ONE (1) of the following courses:

| Subject & Number | Title | Units |
|--------------------------------|------------------------|--------------|
| Business Office Technology 223 | Office Work Experience | 1 |
| or | | |
| Business Office Technology 224 | Office Work Experience | (2) |
| or | | |
| 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 109 | Elementary Accounting | 3 |
| Business Office Technology 119 | Windows for the Information Worker | 2 |
| Business Office Technology 150 | Using Microsoft Publisher | 1 |
| | Total | 3 |
| | Total Required | 24-33 |
| | 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 100 | Basic Keyboarding | 1 |
| Business Office Technology 101A | Keyboarding/Document Processing I | 1.5 |
| Business Office Technology 101B | Keyboarding/Document Processing II | 1.5 |
| Business Office Technology 102A | Intermediate Keyboarding/Document Processing I | 1.5 |
| Business Office Technology 102B | Intermediate Keyboarding/Document Processing II | 1.5 |
| Business Office Technology 110 | Business English and Communication | 3 |
| or | | |
| 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 132 | Google Applications for Business | 3 |
| Business Office Technology 150 | Using Microsoft Publisher | 1 |
| Business Office Technology 151 | Using Microsoft Outlook | 1 |
| | Total | 26 |

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

| Subject & Number | Title | Units |
|--------------------------------|--|--------------|
| Business Office Technology 109 | Elementary Accounting | 3 |
| 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 |
| | Total | 3 |
| | Total Required | 29 |
| | 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

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 | 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 101A and Business Office Technology 101B | Keyboarding/ Document Processing I | 1.5 |
| Business Office Technology 109 | Keyboarding/ Document Processing II | 1.5 |
| Business Office Technology 176 | Elementary Accounting | 3 |
| Business Office Technology 179 | Computerized Accounting Applications | 2 |
| | 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 and Business Office Technology 103B | Basic Keyboarding | 1 |
| Business Office Technology 104 | Building Keyboarding Skill I (.5) | |
| Business Office Technology 107 | Building Keyboarding Skill II (.5) | |
| Business Office Technology 113 | Filing and Records Management | 1 |
| Business Office Technology 151 | Office Systems and Procedures | 2 |
| Business Office Technology 172 | Social Media Basics for the Job Seeker | .5 |
| Business Office Technology 114 and Business Office Technology 115 and Business Office Technology 116 and Business Office Technology 117 | Using Microsoft Outlook | 1 |
| | Introduction to Microcomputer Application | 2 |
| | Essential PowerPoint | (1) |
| | Total | 7.5-9.5 |

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 100 | Basic Keyboarding | 1 |
| Business Office Technology 101A and Business Office Technology 101B | Keyboarding/ Document Processing I | 1.5 |
| Business Office Technology 101B and Business Office Technology 103A | Keyboarding/ Document Processing II | 1.5 |
| Business Office Technology 103A and Business Office Technology 103B | Building Keyboarding Skills I (.5) | |
| Business Office Technology 103B or Business Office Technology 103B | Building Keyboarding Skills II (.5) | |
| Business Office Technology 103C and Business Office Technology 104 | Building Keyboarding Skills III (.5) | |
| Business Office Technology 104 and Business Office Technology 106 | Filing and Records Management | 1 |
| Business Office Technology 106 and Business Office Technology 132 | Effective Job Search | 1 |
| | Google Applications for Business | 3 |
| | Total | 10 |

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 102A and Business Office Technology 102B | Intermediate Keyboarding/ Document Processing I | 1.5 |
| Business Office Technology 102B and Business Office Technology 107 | Intermediate Keyboarding/ Document Processing II | 1.5 |
| Business Office Technology 107 and Business Office Technology 114 | Office Systems and Procedures | 2 |
| Business Office Technology 114 and Business Office Technology 115 | Essential Word | 1 |
| Business Office Technology 115 and Business Office Technology 116 | Essential Excel | 1 |
| Business Office Technology 116 and Business Office Technology 117 | Essential Access | 1 |
| | <u>Essential PowerPoint</u> | <u>1</u> |
| | 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 Business Office Technology 101A and Business Office Technology 101B | Basic Keyboarding | 1 |
| Business Office Technology 101A and Business Office Technology 101B | Keyboarding/ Document Processing I | (1.5) |
| Business Office Technology 101B or Business Office Technology 102A and Business Office Technology 102B | Keyboarding/ Document Processing II | (1.5) |
| Business Office Technology 102A and Business Office Technology 102B | Intermediate Keyboarding/ Document Processing I | (1.5) |
| Business Office Technology 102B and Business Office Technology 106 | Intermediate Keyboarding/ Document Processing II | (1.5) |
| Business Office Technology 106 and Business Office Technology 107 | Effective Job Search | 1 |
| Business Office Technology 107 and Business Office Technology 110 | Office Systems and Procedures | 2 |
| Business Office Technology 110 and Business Office Technology 114 | Business English and Communication | 3 |
| Business Office Technology 114 and Business Office Technology 115 | Essential Word | 1 |
| | <u>Essential Excel</u> | <u>1</u> |
| | 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 | Essential Word | 1 |
| or | | |
| Business Office Technology 120 | Comprehensive Word, Level I | (1) |
| and | | |
| Business Office Technology 121 | Comprehensive Word, Level II | (1) |
| Business Office Technology 115 | Essential Excel | 1 |
| or | | |
| Business Office Technology 123 | Comprehensive Excel, Level I | (1) |
| and | | |
| Business Office Technology 124 | Comprehensive Excel, Level II | (1) |
| Business Office Technology 116 | Essential Access | 1 |
| or | | |
| Business Office Technology 126 | Comprehensive Access, Level I | (1) |
| and | | |
| Business Office Technology 127 | Comprehensive Access, Level II | (1) |
| Business Office Technology 117 | Essential PowerPoint | 1 |
| or | | |
| Business Office Technology 129 | Comprehensive PowerPoint, Level I | (1) |
| and | | |
| 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 |
| or | | |
| Business Office Technology 132 | Google Applications for Business | (3) |
| Business Office Technology 120 | Comprehensive Word, Level I | 1 |
| or | | |
| 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 | Comprehensive Excel, Level I | 1 |
| or | | |
| 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 | Comprehensive Access, Level I | 1 |
| or | | |
| Business Office Technology 116 | Essential Access | (1) |
| Business Office Technology 127 | Comprehensive Access, Level II | 1 |
| Business Office Technology 129 | Comprehensive PowerPoint, Level I | 1 |
| or | | |
| Business Office Technology 117 | Essential PowerPoint | (1) |
| Business Office Technology 130 | Comprehensive PowerPoint, Level II | 1 |
| Total | | 12-14 |

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 12 for special admission procedures and criteria.

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.

Students are admitted to the Cardiovascular Technology Program based on the date a completed application packet is submitted to include the following: CVT application, completed immunizations and/or tests and official transcripts of all science prerequisites if taken outside of GCCCD. Program applications are accepted year round and is a separate process from an application to Grossmont College.

For all information on admission criteria, see the Cardiovascular Technology Program website at <https://www.grossmont.edu/academics/programs/cvt/index.php>

Grossmont College prepares the student for an Associate Degree in Science as a Cardiovascular Technologist. In addition to the cardiovascular technology courses, the major requires selected general education courses to be successfully completed for the degree. Upon completion of all degree requirements, the graduate is eligible to sit for the registry exam as a Cardiovascular Technologist administered by Cardiovascular Credentialing International (CCI) and/or with the American Registry of Diagnostic Medical Sonographers (ARDMS).

The Associate Degree Cardiovascular Technology Program is accredited through the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT) located at 9355 113th Street, N., #7709, Seminole, FL 33775.

IMPORTANT: Any prior conviction of a misdemeanor or felony may influence eligibility for licensure or certification as a Cardiovascular Technologist. A flagged background check or drug screen may also prohibit participation in the program, registry, or securing employment. Applicants with prior convictions are urged to contact Cardiovascular Credentialing International (CCI) at 800-326-0268 and the American Registry of Diagnostic Medical Sonographers (ARDMS) at 301-738-8401.

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
Echocardiographer
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 / certificate 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.
5. 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. Completion of MATH 103 or a higher numbered math course with a grade of "C" or higher or a grade of "P".
 2. Placement into MATH 125 or a math course numbered MATH 170 or above. (Students meeting competency through placement 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
English as a Second Language 122
2. **Oral Communication**
Communication 120, 122, 130
3. **Analytical Thinking**
Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.
Anthropology 215
Biology 215
Economics 215
Geography 104
Mathematics 103, 108, 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, 117, 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, 201, 202, 203, 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
 Chinese 120, 121, 220, 221, 250, 251
 Communication 135, 137, 144, 145
 Dance 110, 120
 English 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 275, 276, 277
 English as a Second Language 115
 Ethnic Studies 122, 123, 126, 127, 134, 143, 144, 147, 149, 152, 236, 237, 238
 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
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155, 160
 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, 205

Area D - Social Sciences

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

Administration of Justice 110
 Anthropology 120, 122, 127, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 126, 128
 Economics 110, 120, 121
 Ethnic Studies 107, 114, 115, 118, 119, 124, 125, 128, 130, 133, 135, 137, 138, 143, 145, 153, 180, 181
 Family Studies 115, 120
 Gender Studies 116, 117, 154, 155
 Geography 100, 101, 106, 130, 170
 Health Education 120, 201
 Health Science 110
 History 107, 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181
 Media Communications 110, 210
 Nutrition 155, 158, 159
 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, 150

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, 083A, 083B, 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, 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 026, 027A, 027B, 027C, 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 encourage 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 | Organic Chemistry I | 5 |
| or | | |
| Chemistry 241 | Organic Chemistry I Lecture | (3) |
| and | | |
| Chemistry 241L | Organic Chemistry I Laboratory | (2) |
| Chemistry 232 | Organic Chemistry II | 5 |
| or | | |
| Chemistry 242 | Organic Chemistry II Lecture | (3) |
| and | | |
| Chemistry 242L | 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 201 | Mechanics and Waves | 5 |
| Physics 202 | Electricity, Magnetism & Heat | 5 |
| Physics 203 | Light, Wave Motion and Modern Physics | 5 |
| 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:

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 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 153 | Teaching in a Diverse Society | 3 |
| or | | |
| Cross Cultural Studies 153 | Teaching in a Diverse Society | (3) |
| Child Development 115 | Changing American Family | *3 |
| or | | |
| Family Studies 115 | Changing American Family | (*3) |
| or | | |
| Child Development 136 | 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 115 | Changing American Family | *3 |
| or | | |
| Family Studies 115 | Changing American Family | (*3) |
| 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 |
| | 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

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.

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.

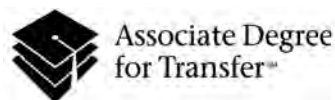
Note: All courses must be completed with a letter grade of "C" or higher.

| 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 | <u>Child, Family and Community</u> | 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 IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER DEGREE (AS-T)

The Associate in Science in Early Childhood Education for Transfer (AS-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 (AS-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 or "Pass" in all courses required for 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.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER (AA-T)

The Associate in Arts in Communication Studies for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 | 3 |
| Communication 137 | Critical Thinking in Group Communication | 3 |
| Communication 145 | Argumentation | 3 |
| | Total | 6 |

List B

Select TWO (2) of the following courses:

| | | |
|-------------------------------------|-----------------------------------|----------|
| Any List A course not used above or | | |
| Communication 123 | Advanced Public Speaking | 3 |
| Communication 124 | Intercultural Communication | 3 |
| Communication 135 | Oral Interpretation of Literature | 3 |
| Communication 240 | Speech and Debate Competition III | 3 |
| | 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 | 3 |
| Communication 136 | Readers Theatre | 3 |
| Communication 144 | Communication Studies: Race and Ethnicity | 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.

COMMUNICATION

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 |

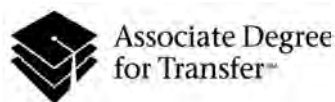
Select TWO (2) of the following courses:

| Subject & Number | Title | Units |
|--------------------|--|----------|
| Communication 124 | Intercultural Communication | 3 |
| Communication 126 | Communication Studies: Health and Wellness | 3 |
| Communication 128 | Global Communication | 3 |
| Communication 144 | Communication Studies: Race and Ethnicity | 3 |
| or | | |
| Ethnic 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.



ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE FOR TRANSFER DEGREE (AS-T)

The Associate in Science in Computer Science for Transfer (AS-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 a California State University to complete a baccalaureate degree in a TMC (Transfer Model Curriculum) discipline or similar major.

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 apply current Software Engineering design patterns, algorithms, and data structures to produce efficient, well-engineered software applications.
2. Apply problem-solving skills and the knowledge of computer science to solve real-world problems.
3. Define and demonstrate the concept of object oriented programming and object oriented design.

The Associate in Science in Computer Science for Transfer (AS-T.) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. A total of 32 units are required to fulfill the major portion of this degree. Students must also complete the Intersegmental General Education Transfer Curriculum (IGETC) for CSU admission requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students should speak with a counselor to verify that the requirements for this degree have been met. In addition, students planning to transfer to San Diego State University should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Computer Science for Transfer (AS-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).
 - (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 or "Pass" in all courses required for the major.

Most careers in computer science require a bachelor's degree, and some require a graduate-level degree. The coursework for this associate degree prepares students who plan to transfer and major in computer science with the lower-division computer programming and mathematics coursework required by most colleges and universities. It is designed to provide a strong foundation in programming methodology and skills,

and computer organization. Additionally, students gain the necessary theoretical and practical knowledge necessary to work in a variety of computer related fields such as Software Engineering, Computer Engineering, Computer Systems Analysis, Network Engineering, Cloud Computing, Mobile Application Development, Computer Support, Computer Information Systems, Database Administration, Network Security, and Web Development.

Associate in Science in Computer Science for Transfer Degree

Associate Degree Major Requirements

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

Required Core

| Subject & Number | Title | Units |
|------------------------------------|--|----------|
| Biology 230 | Principles of Cellular, Molecular and Evolutionary Biology | 4 |
| Computer Science Info. Systems 165 | Assembly Language and Machine Architecture | 4 |
| Computer Science Info. Systems 240 | Discrete Structures | 3 |
| Computer Science Info. Systems 293 | Introduction to Java Programming | 4 |
| Computer Science Info. Systems 294 | Intermediate Java Programming | 4 |
| Mathematics 180 | Analytic Geometry & Calculus I | 5 |
| Mathematics 280 | Analytic Geometry & Calculus II | 4 |
| Physics 140 | <u>Mechanics of Solids</u> | <u>5</u> |
| | Units for the major | 32 |
| | Units for IGETC-CSU GE | 37 |
| | Total units required for the degree | 60 |

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, Web Design and Software Engineering. 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 are outcomes 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.

1. Analyze and evaluate a computer –related situation in a business and/or scientific environment to identify a potential problem.
2. Design a technologically feasible and efficient solution.
3. Construct and complete the solution.
4. Demonstrate and explain the solution.

Similar Course List

The following Grossmont and Cuyamaca College courses are considered similar enough to be accepted in the major for local Computer Science degrees in the district. No Modification of Major forms are required at either campus.

| Grossmont Course | Similar Cuyamaca Course |
|------------------|-------------------------|
| CSIS 112 | CIS 190 |
| CSIS 113 | CIS 191 |
| 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 282 | CIS 267 |
| CSIS 293 | CS 182 |
| CSIS 294 | CS 282 |
| CSIS 296 | CS 181 |
| CSIS 297 | CS 281 |

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 or Computer Science Info. Systems 113 | Windows Operating Systems | 3 |
| Computer Science Info. Systems 119 | Introduction to Linux Programming | (3) |
| Computer Science Info. Systems 293 | Introduction to Computer Programming | 3 |
| Computer Science Info. Systems 294 | Introduction to Java Programming | 4 |
| Computer Science Info. Systems 296 | Intermediate Java Programming | 4 |
| Computer Science Info. Systems 297 or Computer Science Info. Systems 250 and Computer Science Info. Systems 251 | Introduction to C++ Programming | 4 |
| Computer Science Info. Systems 297 or Computer Science Info. Systems 250 and Computer Science Info. Systems 251 | Intermediate C++ Programming | 4 |
| Computer Science Info. Systems 250 and Computer Science Info. Systems 251 | Introduction to Python Programming | (4) |
| Computer Science Info. Systems 251 | Intermediate Python Programming | (4) |
| | Total | 22 |

Select TWO (2) of the following courses:

| Subject & Number | Title | Units |
|---------------------------------------|---|--------------|
| Computer Science Info. Systems 132 | Introduction to Web Development | 3 |
| Computer Science Info. Systems 133 | Intermediate Web Development | 3 |
| Computer Science Info. Systems 135 | Introduction to JavaScript Programming | 3 |
| Computer Science Info. Systems 165 | Assembly Language and Machine Architecture | 4 |
| Computer Science Info. Systems 250 | Introduction to Python Programming | 4 |
| Computer Science Info. Systems 251 | Intermediate Python Programming | 4 |
| Computer Science Info. Systems 276 | Introduction to SQL | 4 |
| Computer Science Info. Systems 290 | Introduction to C# Programming | 4 |
| Computer Science Info. Systems 293 | Introduction to Java Programming | 4 |
| Computer Science Info. Systems 294 | Intermediate Java Programming | 4 |
| Computer Science Info. Systems 295 | Android Application Development with Java | 4 |
| Computer Science Info. Systems 296 | Introduction to C++ Programming | 4 |
| Computer Science Info. Systems 297 | Intermediate C++ Programming | 4 |
| | Total | 6-8 |
| | Total Required | 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 Computer Programming. An official request must be filed with the Admissions and Records Office prior to the deadline stated in the Academic Calendar.

Area of Emphasis Cybersecurity and Networking

An area of emphasis leading to an entry level position which specializes in networking and cyber defense. Students completing this sequence will be expected to assist network managers and cybersecurity managers in small, medium, and large-sized organizations.

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

| Subject & Number | Title | Units |
|------------------------------------|------------------------------------|-----------|
| Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 121 | Introduction to Cybersecurity | 3 |
| Computer Science Info. Systems 125 | Network + Certification | 3 |
| Computer Science Info. Systems 250 | Introduction to Python Programming | 4 |
| Computer Science Info. Systems 263 | Security + Certification | 3 |
| | Total | 16 |

Select at least NINE (9) units in any of the following courses:

| Subject & Number | Title | Units |
|------------------------------------|---|--------------|
| Business 128 | Business Communication | 3 |
| Computer Science Info. Systems 110 | Principles of Information Systems | 4 |
| Computer Science Info. Systems 120 | Computer Maintenance and A+ Certification | 3 |
| Computer Science Info. Systems 130 | Windows Server: Installing & Configuring | 2 |
| Computer Science Info. Systems 145 | Introduction to TCP/IP | 2 |
| Computer Science Info. Systems 213 | Linux System Administration | 3 |
| Computer Science Info. Systems 230 | Windows Server: Administering | 2 |
| Computer Science Info. Systems 264 | Ethical Cybersecurity Hacking | 3 |
| Computer Science Info. Systems 265 | Computer Forensics Fundamentals | 3 |
| | Total | 9-10 |
| | Total Required | 25-26 |
| | Plus General Education and Elective Requirements | |

Area of Emphasis

Information Technology Support Specialist

The Information Technology Support Specialist degree will provide a student with sufficient skills to obtain a position in industry as an Information Technology Support Specialist. The skills to be gained with this degree include familiarity with the most popular desktop computer operating systems as well as hands-on experience with the associated hardware, networking, and web development software. An official request from the student must be filed with the Admissions and Records Office prior to the deadline stated in the yearly calendar listed in the class schedule and catalog.

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: Transfer, enter the workforce, and promote life-long learning.

Associate Degree Major Requirements

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

| Subject & Number | Title | Units |
|------------------------------------|---|-----------|
| Computer Science Info. Systems 110 | Principles of Information Systems | 4 |
| Computer Science Info. Systems 112 | Windows Operating System | 3 |
| Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 120 | Computer Maintenance and A+ Certification | 3 |
| Computer Science Info. Systems 125 | Network + Certification | 3 |
| Computer Science Info. Systems 132 | Introduction to Web Development | 3 |
| | Total | 19 |
| | Plus General Education and Elective Requirements | |

Area of Emphasis

Web Design and Development

This program provides students with a well-rounded background in state-of-the-art technologies, knowledge and skills related to the in-demand fields of web design and development. Coursework involves significant hands-on and project centered experience and the opportunity to build portfolio assets. Emphasis is on being able to build and maintain attractive, reliable and robust websites using popular methods, frameworks and toolkits.

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

| Subject & Number | Title | Units |
|------------------------------------|---------------------------------|-----------|
| Computer Science Info. Systems 132 | Introduction to Web Development | 3 |
| Computer Science Info. Systems 133 | Intermediate Web Development | 3 |
| Computer Science Info. Systems 135 | JavaScript Programming | 3 |
| Computer Science Info. Systems 151 | Introduction to Photoshop | 3 |
| | Total | 12 |

Select THREE (3) of the following courses:

| Subject & Number | Title | Units |
|------------------------------------|---|-------|
| Computer Science Info. Systems 112 | Windows Operating Systems | 3 |
| Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 119 | Introduction to Computer Programming | 3 |
| Computer Science Info. Systems 121 | Introduction to Cybersecurity | 3 |
| Computer Science Info. Systems 147 | Social Media and Internet Marketing | 3 |
| Computer Science Info. Systems 180 | Fundamentals of Database Design | 3 |
| Computer Science Info. Systems 250 | Introduction to Python Programming | 4 |
| Computer Science Info. Systems 276 | Introduction to SQL | 4 |
| Computer Science Info. Systems 293 | Introduction to Java Programming | 4 |
| | Total | 9-10 |
| | Total Required Plus General Education and Elective Requirements | 21-22 |

Certificates 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:

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

- Computer Science Information Systems – Computer Programming
- Computer Science Information Systems – Cybersecurity and Networking
- Computer Science Information Systems –Information Technology Support Specialist
- Computer Science Information Systems-Web Design and Development

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

Certificate of Achievement

A certificate of achievement leading to an entry level position which specializes in the fundamentals of Data Science. Students completing this sequence will have enough basic Data Science skills to enable them to assist managers in small, medium, and large-sized organizations.

Data Science

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

| Subject & Number | Title | Units |
|--|--|-------|
| Mathematics 160 | Elementary Statistics | 4 |
| or Biology 215 | Statistics for Life Sciences | (3) |
| or Anthropology 215 | Statistics for the Behavioral Sciences | (4) |
| or Psychology 215 | Statistics for the Behavioral Sciences | (4) |
| or Sociology 215 | Statistics for the Behavioral Sciences | (4) |
| or Economics 215 | Statistics for Business and Economics | (3) |
| Geography 104 | Introduction to Geographic Information Science | 3 |
| Computer Science Info. Systems 276 | Introduction to SQL | 3 |
| or Computer Science Info. Systems 180 | Fundamentals of Database Design | (3) |
| Computer Science Info. Systems 250 | Introduction to Python Programming | 4 |
| Physical Science 120 | Fundamentals of Scientific Computing | 4 |
| or Computer Science Info. Systems 110 | Principles of Information Systems | (4) |
| | Total | 17-18 |

Certificate of Achievement

This Certificate of Achievement is preparing students for entry level positions programming PLCs for industrial automation. The curriculum provides the student with practical experience using the state-of-the-art software and hardware typically found in the field of industrial automation.

Programmable Logic Controllers

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. Students will be able to program the Programmable Logic Controllers and Distributed Controller Systems.
2. Students will be able to implement industrial automation solutions using Programmable Logic Controllers or Distributed Controller Systems.
3. Students will be able to demonstrate and explain their solutions.

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 |
| or Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 119 | Introduction to Computer Programming | 3 |
| Computer Science Info. Systems 121 | Introduction to Cybersecurity | 3 |
| Computer Science Info. Systems 250 | Introduction to Python Programming | 4 |
| Computer Science Info. Systems 255 | Introduction to Programmable Logic Controllers | 4 |
| | Total | 17 |

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.

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 |
| Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 120 | Computer Maintenance and A+ Certification | 3 |
| Computer Science Info. Systems 125 | Network + Certification | 3 |
| | Total | 12 |

Network And Cybersecurity Technician

This certificate prepares a student with the basic skills to enter a position in industry as a Network and Cybersecurity Technician. The skills to be gained with the certificate include familiarity with the Linux operating system, computer networks, network security, and ethical hacking or computer forensics.

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

| Subject & Number | Title | Units |
|---------------------------------------|-------------------------------|-----------|
| Computer Science Info. Systems 113 | Introduction to Linux | 3 |
| Computer Science Info. Systems 121 | Introduction to Cybersecurity | 3 |
| Computer Science Info. Systems 125 | Network + Certification | 3 |
| Computer Science Info. Systems 263 | Security + Certification | 3 |
| | Total | 12 |

CROSS-CULTURAL STUDIES

(now Ethnic, Gender & Social Justice; See Ethnic Studies and Gender 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.

Certificates of Proficiency

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:

- Assess the influence of intersectionality, culture, perception, language, and non-verbal messages in cross-cultural settings.
- Analyze and describe specific barriers to effective cross-cultural interaction and construct solutions.
- 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 | Introduction to 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 | Introduction to Cross Cultural Competence | 3 |
| and Communication 144 | Communication Studies: Race and Ethnicity | 3 |
| or Cross-Cultural Studies 144 | Communication Studies: Race and Ethnicity | (3) |
| or Communication 124 | Intercultural Communication | (3) |
| and English 120 | College Composition and Reading | 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 | Introduction to Cross Cultural Competence | 3 |
| and Communication 144 | Communication Studies: Race and Ethnicity | 3 |
| or Cross-Cultural Studies 144 | Communication Studies: Race and Ethnicity | (3) |
| or Communication 124 | Intercultural Communication | (3) |
| and ONE (1) of the following (3-5 units): | | |
| Arabic 251 | Conversational Arabic II | 3 |
| French 251 | Conversational French II | 3 |
| German 251 | Conversational German II | 3 |
| Japanese 251 | Conversational Japanese II | 3 |
| Russian 251 | Conversational Russian II | 3 |
| Spanish 251 | Conversational Spanish II | 3 |
| American Sign Language 221 | American Sign Language IV | 4 |
| and American Sign Language 222 | Conversation Lab II | 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.

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 |
|--|-------------------------------------|-------|
| Nutrition 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.

Pastry Arts

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 | Banquet Service 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 | Culinary Career Preparation | 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 167 | Wines of the World | 3 |
| Culinary Arts 175 | Healthy Lifestyle Cuisine | 3 |
| Culinary Arts 178 | Garde Manger | 3 |
| Nutrition 155 | Introduction to Nutrition | 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 Pastry 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.

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 | 1.5 |
| Dance 205 | Choreography | 2 |
| Total | | 18.5 |

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 | 1.5 |
| 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 083 A or B | Latin American Dance I or II | 1.5 |
| Dance 094 B or C or D | Hip Hop 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 200 A or B | Touring Dance Ensemble I or II | 2 |
| Dance 206 | Choreography | 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) 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 |

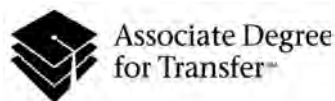
Select any TWO (2) of the following courses (minimum of 4.5 units):

| 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 |
| Nutrition 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 IN ARTS IN ECONOMICS FOR TRANSFER (AA-T)

The Associate in Arts in Economics for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

The Associate in Arts in Economics Transfer Degree (AA-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 |
| Mathematics 178 | Calculus for Business, Social, & Behavioral Sciences | 4 |
| or | | |
| Mathematics 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.

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 Systems | 4 |
| 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 Plus General Education and Elective Requirements | 30-32 |

*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 Mathematics 180-280-281.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER DEGREE (AA-T)

The Associate in Arts in English for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 specific degree / certificate requirements in this program. Students will:

1. Read a variety of genres and texts critically.
2. Write persuasively in a variety of genres and contexts.
3. Investigate ideas effectively through sound research and writing techniques.
4. Demonstrate an understanding of diverse cultural perspectives.

Associate Degree 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 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 |
| 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 |
| 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.

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. Read a variety of genres and texts critically.
2. Write persuasively in a variety of genres and contexts.
3. Investigate ideas effectively through sound research and writing techniques.
4. Demonstrate an understanding of diverse cultural perspectives.

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 |
| or | | |
| English as a Second Language 122 | College Rhetoric | (6) |
| English 122 | Introduction to Literature | 3 |
| English 124 | Advanced Composition: Critical Reasoning and Writing | 3 |
| English 126 | Introduction to Creative Writing | 3 |
| Total | | 12-15 |

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 |
| Total | | 6 |

Select THREE (3) units from the following:

| Subject & Number | Title | Units |
|--------------------|----------------------------|-------|
| English 215 | Mythology | 3 |
| English 236 | Chicano Literature | 3 |
| or | | |
| Ethnic Studies 236 | Chicana/o Literature | (3) |
| English 237 | American Indian Literature | 3 |
| or | | |
| Ethnic Studies 237 | American Indian Literature | (3) |
| English 238 | Black Literature | 3 |
| or | | |
| Ethnic 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 | | 24-27 |
| 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 104. 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 Chemistry 120 | Fundamentals of Chemistry Preparation for General Chemistry | 4 (4) |
| Communication 122 | Public Speaking | 3 |
| Nutrition 158 or Nutrition 255 | Nutrition for Fitness and Sports Science of Nutrition | 3 (3) |
| NOTE: (NUTR 255 is required for the Kinesiology major at SDSU) | | |
| Psychology 120 | Introductory Psychology | 3 |
| Sociology 120 | 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 008A or B or C | Beginning or Intermediate or Advanced Indoor Cycling | 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 026 | Stress Reduction Through Movement and Mindfulness | 1 |
| Exercise Science 027A or B or C | Beginning or Intermediate or Advanced T'ai Chi Ch'uan | 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.

Certificate of Proficiency

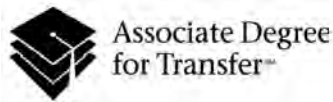
Certificates of Proficiency are designed for the student who needs to be prepared to enter an entry-level job. A department-issued certificate may be awarded upon successful completion of a prescribed course of study. This certificate will **not** appear on a student's transcript. The Exercise Science 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 |
| Nutrition 158 | Nutrition for Fitness and Sport | 3 |
| | Total | 19 |



ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER (AA-T)

The Associate in Arts in Kinesiology for Transfer (AA-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 22-25.5 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 Kinesiology for Transfer (AA-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 or "Pass" in all courses required for the major.

The Department of Exercise Science and Wellness offers a solid academic foundation for further study in the fields 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 the California State University Institutions and allows for an emphasis either in Fitness, Nutrition and Health. 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.

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 in Kinesiology 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 |
|----------------------|---|-----------|
| Exercise Science 250 | Introduction to Kinesiology | 3 |
| Biology 140 | Human Anatomy | 5 |
| Biology 141 & 141L | Human Physiology & Human Physiology Lab | 4 |
| | Total | 12 |

Select a maximum of ONE (1) course from any THREE (3) of the following areas for a minimum of THREE (3) units.

Area 1: Aquatics

| | | |
|---------------------------------|---|---|
| Exercise Science 043A or B or C | Beginning or Intermediate or Advanced Swimming | 1 |
| Exercise Science 044A or B | Beginning or Intermediate Lap Swimming for Health and Fitness | 1 |

Area 2: Combatives

| | | |
|---------------------------------|---|-----|
| Exercise Science 185A or B or C | Beginning or Intermediate or Advanced Fencing | 1.5 |
|---------------------------------|---|-----|

Area 3: Dance

| | | |
|-----------------|-----------------------------------|-----|
| Dance 082A or B | Social and Ballroom Dance I or II | 1.5 |
|-----------------|-----------------------------------|-----|

Area 4: Fitness

| | | |
|----------------------------|---|-----|
| Exercise Science 005A or B | Beginning or Intermediate Aerobic Fitness and Weight Training | 1.5 |
| Exercise Science 006A or B | Beginning or Intermediate Total Body Fitness | 1 |
| Exercise Science 009A or B | Beginning or Intermediate Aerobic Dance Exercise | 1 |
| Exercise Science 023A or B | Beginning or Intermediate Weight Training | 1 |

Area 5: Individual Sports

| | | |
|---------------------------------|--|-------|
| 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 |

Area 6: Team Sports

| | | |
|---------------------------------|--|--------------|
| Exercise Science 155A or B or C | Beginning or Intermediate or Advanced Basketball | 1 |
| Exercise Science 170A or B or C | Beginning or Intermediate or Advanced Soccer | 1 |
| Exercise Science 171A or B or C | Beginning or Intermediate or Advanced Softball | 1 |
| Exercise Science 172A or B or C | Beginning or Intermediate or Advanced Baseball | 1 |
| Exercise Science 175A or B or C | Beginning or Intermediate or Advanced Volleyball | 1 |
| | Total | 3-4.5 |

List A

Select TWO (2) of the following courses:

| | | |
|------------------|---|------------|
| Math 160 | Elementary Statistics | 4 |
| or | | |
| Anthropology 215 | Statistics for the Behavioral Sciences | (4) |
| or | | |
| Psychology 215 | Statistics for the Behavioral Sciences | (4) |
| or | | |
| Sociology 215 | Statistics for the Behavioral Sciences | (4) |
| Biology 118 | Introduction to Human Biology | 3 |
| Chemistry 102 | Introduction to General, Organic and Biological Chemistry | 5 |
| or | | |
| Chemistry 141 | General Chemistry I | 5 |
| | Total | 7-9 |
| | Units for the major | 22-25.5 |
| | Units for CSU GE or IGETC-CSU GE | 37-39 |
| | Total units required for the degree | 60 |

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 World 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 152 | The French Speaking World: A Cross-Cultural Perspective | 3 |
| French 220 | French III | 5 |
| French 221 | French IV | 5 |
| French 250 | Conversational French I | 3 |
| French 251 | Conversational French 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 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 3 units from Humanities and 3 units from Fine Arts. The remaining 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. Analyze the principle elements of representative examples of art, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
2. Demonstrate an awareness of the historical and philosophical contexts of representative areas, movements, media, works, and/or styles of cultural and/or intellectual creativity.
3. Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.

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
 ENGL 122, 201, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238
 ETHN 144, 236, 238
 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, 160
 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, 104, 106, 119, 120, 121, 124, 125, 126, 127, 129, 130, 131, 132, 140, 141, 142, 143, 145, 146, 147, 171, 172, 210, 221, 222
 DANC 110, 120
 ENGL 126
 ETHN 126, 127, 134
 MCOM 111
 MUS 110, 111, 115, 116, 117, 123, 189
 PHOT 150, 151, 154
 THTR 101, 110, 130, 131, 143, 144, 205

General Studies AS - Science and Quantitative Reasoning

Minimum 18 units required. Minimum 3 units from Science and 3 units from Analytical Thinking and Quantitative Reasoning. The remaining 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. Solve problems using fundamentals of mathematics, natural and/or computer science.
2. Utilize mathematical skills to analyze data and/or solve problems.
3. Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems.

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, 117, 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, 201, 202, 203, 240, 241
 SCI 110

Analytical Thinking and Quantitative Reasoning

ANTH 215
 BIO 215
 CSIS 119, 165, 240, 250, 251, 255, 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 3 units from Social Sciences and 3 units from Behavioral Sciences. The remaining 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. Describe general principles of the political institutions and government of the United States.
2. Demonstrate an understanding and appreciation of social, political, and economic institutions, including a historical perspective.
3. Evaluate the ways in which people interact both within and outside of their own culture as well as society as a whole.
4. Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems

Social Sciences

AOJ 110, 200, 240
CD 115, 145, 153
COMM 144
COUN 120
ECON 110, 120, 121, 261
ETHN 107, 114, 118, 119, 128, 130, 131, 135, 137, 138, 143, 144, 145, 150, 180, 181
FS 115
GEND 116, 154, 155
GEOG 100, 101, 106, 130, 170
HESC 110
HIST 100, 101, 103, 105, 106, 107, 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, 150

Behavioral Sciences

ANTH 120, 122, 127, 140
CD 115, 125, 153
COMM 124, 128
ETHN 115, 125
FS 115, 120
HED 120, 201
NUTR 155, 158, 159
PSY 120, 125, 132, 134, 138, 140, 150, 170, 180, 211, 220
SOC 120, 125, 130, 138, 140

General Studies AA - Wellness and Self-Development

Minimum 18 units required. Minimum 3 units from Wellness and 3 units from Self Development. The remaining 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:

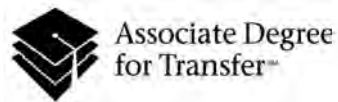
1. Demonstrate an understanding of nutrition, optimal health/lifestyles and fitness in daily life through informed decision-making.
2. Describe basic principles of nutrition, personal and/or public health.
3. Demonstrate sound decision making with respect to personal health and wellness.

Wellness

BIO 118
COMM 126
ES 250, 255
HED 101, 105, 120, 201
NUTR 155, 158, 159, 205, 255
Activity: DANC 068, 071A, 071B, 072A, 072B, 074A, 074B, 080A, 080B, 080C, 080D, 081A, 081B, 081C, 081D, 082A, 082B, 083A, 083B, 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, 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 026, 027A, 027B, 027C, 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

Self-Development

BIO 112
BUS 195
CD 125, 153
CHEM 110
COMM 128
COUN 104, 110, 120, 130
ENGL 219
ETHN 115
FS 110, 120, 129
HESC 110
LIR 110
PSY 132, 134, 140, 150, 180, 220
SOC 125



ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER (AA-T)

The Associate in Arts in Geography for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 |

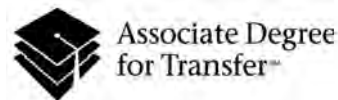
List A:

| | | |
|---------------|--|---|
| 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.



ASSOCIATE IN ARTS IN GLOBAL STUDIES FOR TRANSFER DEGREE

The Associate in Arts in Global Studies for Transfer (AA-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 system to major in Global Studies or a related major.

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 interdependence and interconnectedness of elements of the physical, social, political, and cultural environments that comprise the human landscape.
2. Recognize and analyze historical and emerging trends in globalization along with their global, national, regional, and local consequences.
3. Identify and explain recurring, emerging, and contemporary global issues and the significance of their geographical distribution.
4. Utilize multi-disciplinary knowledge to develop perspectives that promote global citizenry.

The Associate in Arts in Global Studies for Transfer (AA-T) Degree is designed to facilitate transfer to a California State University in keeping with SB 1440. A total of 21-25 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 should speak with a counselor to verify that the requirements for this degree have been met. In addition, students planning to transfer to SDSU should consult with a counselor.

Global Studies is a multi- and interdisciplinary program designed to increase knowledge and understanding of the processes of globalization and their impacts on societies, cultures, and environments around the world. The Global Studies program provides the student with knowledge of critical issues that affect their lives and community, as well as the affairs of other cultures, societies, and nations. An understanding of the world's social, political, economic, and natural systems and their increasing interdependence, along with an appreciation of the diversity of human culture, will supply the student with a strong background for working in a global economy, for living in a multicultural society, and for making intelligent decisions as global citizens.

The following requirements must be met to be awarded an Associate in Arts in Global Studies for Transfer (AA-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.

Associate Degree in Global Studies for Transfer Major Requirements

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

Required Core

| Subject & Number | Title | Units |
|------------------|--------------------------------|-------|
| Geography 100 | Introduction to Global Studies | 3 |
| Geography 101 | Global Issues | 3 |
| | Total | 6 |

List A: Select FIVE (5) courses from at least FOUR (4) of the following areas (15 units):

| Subject & Number | Title | Units |
|------------------------------------|--|-------|
| Area 1: Culture and Society | | |
| Anthropology 120 | Cultural Anthropology | 3 |
| History 101 | Modern World History | 3 |
| Area 2: Geography | | |
| Geography 106 | World Regional Geography | 3 |
| Geography 120 | Physical Geography: Earth Systems | 3 |
| Geography 130 | Human Geography: The Cultural Landscape | 3 |

Area 3: Economics

| | | |
|---------------|------------------------------|---|
| Economics 120 | Principles of Macroeconomics | 3 |
| Economics 121 | Principles of Microeconomics | 3 |

Area 4: Politics

| | | |
|-----------------------|---|---|
| Political Science 124 | Introduction to Comparative Government and Politics | 3 |
| Political Science 130 | Introduction to International Relations | 3 |

Area 5: Humanities

| | | |
|-------------|-------------------------------------|-------|
| History 100 | Early World History | 3 |
| Spanish 220 | Spanish III | 5 |
| Spanish 221 | Spanish IV | 5 |
| | Total | 15 |
| | Units for the major | 21-25 |
| | Units for CSU GE or IGETC-CSU | 37-39 |
| | Total units required for the degree | 60 |

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 |

Certificates 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.

Educators Global Awareness

This Educators Global Awareness Certificate accompanies the successful completion of the courses listed below. In tandem with the two state required courses, the additional "Globalization" class provides an educator with the background and skills needed to successfully address global issues in today's rapidly changing world; additionally it prepares the educator to incorporate the increasingly important "current events" type of curriculum or course. This certificate addresses the increased demand for a culturally and globally competent public and education system.

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

| Subject & Number | Title | Units |
|---|--------------------------|-------|
| Geography 106 | World Regional Geography | 3 |
| Geology 104 | Earth Science | 3 |
| and Geography 100 or Geography 101 | Global Studies | 3 |
| | Global Issues | (3) |
| | Total | 9 |

Geographic Information Systems Literacy

The GIS Literacy certificate would provide an entry-level employment opportunity for the completer that finishes the course below. The skills covered in this certificate are aimed at a student preparing for a broad range of careers, including government or private sector work, that can be enhanced with geospatial technology skills learned in this course. Students will gain familiarity using with the latest industry standard GIS software that will enable them to analyze, interpret and manipulate spatial information for problem solving applied to real world situations. Many entry level positions are available for someone who has skills in geospatial technologies.

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

| Subject & Number | Title | Units |
|------------------|---|-------|
| Geography 104 | Intro to Geographic Information Systems – GIS | 3 |
| | Total | 3 |

Global Awareness and Appreciation

This certificate accompanies the successful completion of the courses listed below. It certifies that the student has successfully completed background courses providing a global cultural background as well as current globalizing trends, processes and issues. It prepares a student to effectively work in our 21st century global environment. This certificate addresses the increased demand for a globally competent public and workforce.

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

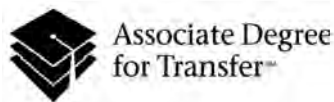
| Subject & Number | Title | Units |
|---|---|--------|
| Geography 130 and Geography 100 or Geography 101 | Human Geography: Cultural Landscapes Global Studies | 3 3 |
| | Global Issues | (3) |
| | Total | 6 |

Administration of Justice Geospatial Literacy Certificate

The AOJ-Geospatial Literacy certificate provides the skills and knowledge valuable to an entry-level employment opportunity for the student that finishes the courses below. The skills in this certificate are aimed at a student preparing for a career in the administration of justice, including government or private-sector work. These careers can be enhanced with computer mapping skills. Students will gain familiarity using the latest cutting edge technology and GIS software that will enable them to analyze, interpret and manipulate crime data for problem solving applied to real world situations. In the AOJ field, examples include the databases that are used by ARJIS (the Automated Regional Justice Information System) and forensic geospatial analysis used within investigations. Entry level positions are available for someone who has skills in geospatial technologies coupled with an AOJ background.

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

| Subject & Number | Title | Units |
|---------------------|---|-------|
| Adm. of Justice 110 | Intro to Administration of Justice | 3 |
| Geography 104 | Intro to Geographic Information Systems – GIS | 3 |
| | Total | 6 |



ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER (AS-T)

The Associate in Science in Geology for Transfer (AS-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 the Associate in Science in Geology for Transfer (AS-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 or "Pass" in all courses required for the major.

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 fundamentals 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 |
| Mathematics 180 | Analytic Geometry & Calculus I | 5 |
| Mathematics 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.

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 201 | Mechanics and Waves | 5 |
| Physics 202 | Electricity, Magnetism & Heat | 5 |
| Total | | 8-10 |

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 | Modern Western Civilization | 3 |
| or | | |
| 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 (AA-T)

The Associate in Arts in History for Transfer (AA-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 in Arts in History for Transfer (AA-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 or "Pass" in all courses required for the major.

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 units:

Group B1 includes all of the following options:

| 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 |
| or | | |
| Ethnic Studies 118 | U.S. History: Chicano/Chicana Perspectives I | (3) |

| | | |
|--------------------|--|-----|
| History 119 | U.S. History: Chicano/Chicana Perspectives II | 3 |
| or | | |
| Ethnic Studies 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 |
| or | | |
| Ethnic Studies 130 | U.S. History and Cultures: Native American Perspectives I | (3) |
| History 131 | U.S. History and Cultures: Native American Perspectives II | 3 |
| or | | |
| Ethnic Studies 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 |
| or | | |
| Gender Studies 154 | Early History of Women in World Civilization | (3) |
| History 155 | Modern History of Women in World Civilization | 3 |
| or | | |
| Gender Studies 155 | Modern History of Women in World Civilization | (3) |
| History 180 | U.S. History: Black Perspectives I | 3 |
| or | | |
| Ethnic Studies 180 | U.S. History: Black Perspectives I | (3) |
| History 181 | U.S. History: Black Perspectives II | 3 |
| or | | |
| Ethnic Studies 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 113 | American Military History | 3 |
| History 124 | History of California | 3 |
| History 126 | History of Mexico | 3 |
| History 135 | Ancient History of Western Civilization | 3 |
| History 136 | Survey of Medieval History | 3 |
| History 137 | History of East Asia | 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.

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 | Internship in International Business | 1 |
| Business 266 or | Internship in International Business | (2) |
| Business 267 | 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 | Spanish & Latin American Culture | 3 |
| or | | |
| ONE (1) course in any foreign language | | 3-5 |
| | 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 |
|------------------|--|-------|
| 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 (AA-T)

The Associate in Arts in Journalism for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

The Associate in Arts in Journalism for Transfer Degree (AA-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 in 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 (AA-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 |
| | Total | 3 |

List B

Select TWO (2) of the following courses:

| | | |
|-----------------------|--|--------------|
| Anthropology 215 | Statistics for the Behavioral Sciences | 4 |
| or | | |
| Psychology 215 | Statistics for the Behavioral Sciences | (4) |
| or | | |
| 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.

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 |

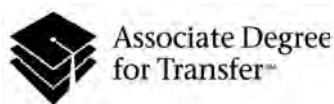
Select ONE (1) of the following courses:

| 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 Plus General Education Requirements | 28.5-30 |

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 (AS-T)

The Associate in Science in Mathematics for Transfer (AS-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 (AS-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 or "Pass" in all courses required for the major.

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 |
| Mathematics 285 | Differential Equations | 3 |
| | Total | 3 |

List B:

Select ONE (1) course from the following:

| | | |
|-------------------------|--|--------------|
| Mathematics 160 | Elementary Statistics | 4 |
| Mathematics 245 | Discrete Mathematics | 3 |
| Physics 201 | Mechanics and Waves | 5 |
| Computer Science | Introduction to Java | |
| Information Systems 293 | Programming | 4 |
| Computer Science | Introduction to C++ | |
| Information Systems 296 | Programming | 4 |
| | Total | 3-5 |
| | 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.

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 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 201 | Mechanics and Waves | 5 |
| Computer Science | Introduction to Java | |
| Information Systems 293 | Programming | 4 |
| Computer Science | Introduction to C++ | |
| Information Systems 296 | Programming | 4 |
| | Total | 3-5 |
| | Total Required | 19-21 |
| | 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>

Anchorperson/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 are outcomes 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 |
| Media Communications 210 | Social Media in the Digital Age | 3 |
| | <u>Total</u> | <u>12</u> |

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) |
| | <u>Total</u> | <u>3</u> |

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) |
| | <u>Total</u> | <u>3</u> |
| | Total Required | 34 |
| | 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 |
| Media Communications 230 | Digital Program Production I | 3 |
| | <u>Total</u> | <u>9</u> |

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) |
| | <u>Total</u> | <u>3</u> |
| | 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.



ASSOCIATE IN ARTS IN MUSIC FOR TRANSFER (AA-T)

The Associate in Arts in Music for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 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 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 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 |
| | 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. Secondly 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> Resources

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 081A | Tap I | 1.5 |
| Dance 095 | Musical Theatre Dance | 1.5 |
| Music 132 or 133 | Class Piano I or II | 3 |
| Music 170 | Class Voice | 2 |
| Music 171 | Class Voice | 2 |
| Theatre Arts 130 | Acting I | 3 |
| Theatre Arts 131 | Acting II | 3 |
| Theatre Arts 205 | The American Musical on Stage and Screen | 3 |
| Theatre Arts 234 A or B | Fundamentals of Musical Theatre – Performance I or II | 3 |
| Theatre Arts 235 A or B | Fundamentals of Musical Theatre - Scene and Song I or II | 3 |
| | Total | 25 |

Select TWO (2) of the following courses:

| | | |
|---------------------------|-----------------------------|----------|
| Dance 080A or B or C or D | Modern I or II or III or IV | 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 |
| | Total | 3 |

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 |

Select ONE (1) of the following courses:

| | | |
|----------------------------------|---|-----------|
| Theatre Arts 122A or B or C or D | Theatre Workshop Laboratory: Acting I or II or III or IV | 1 |
| Theatre Arts 123A or B or C or D | Theatre Workshop Laboratory: Construction I or II or III or IV | 1 |
| Theatre Arts 124A or B or C or D | Theatre Workshop Laboratory: Production Crew I or II or III or IV | 1 |
| | Total | 1 |
| | Total Required | 31 |
| | 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 13 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.

Students are admitted to the Nursing Program based on a multi-criteria selection process which includes the following criteria: GPA of 2.5 or higher in the required sciences and general education courses for the Nursing major, previous degrees or certifications, life experiences, proficiency in a California State chancellor's office approved second language, and the individual composite score of 62 or greater for the Test of Essential Academic Skills exam. Program applications are accepted during specific application periods and is a separate process from an application to Grossmont College. No waitlist is maintained however, for those applicants not selected, the opportunity exists to reapply during future application periods.

For all information on admission criteria, see the Nursing Program website at <https://www.grossmont.edu/academics/programs/nursing/index.php>.

California Licensed Vocational Nurses are eligible to apply for an LVN-RN Transition Program. Upon successful completion of required nursing courses, students will receive a total of 13 units of credit for Fundamentals of Nursing and Obstetric and Pediatric Nursing. Placement in the program is done on an individual bases. Please refer to the website for more information.

Grossmont College prepares the student for an Associate Degree in Science in Registered Nursing. In addition to the nursing courses, the major requires selected general education courses to be successfully completed for the degree. Upon completion of all degree requirements, the graduate is eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Associate Degree Nursing Program is an approved School of Nursing by the California Board of Registered Nursing located at 1747 N. Market Blvd., Suite 150 Sacramento, CA 95834 and accredited by the Accreditation Commission for Education in Nursing located at 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326.

Graduates of the ADN program are also eligible to transfer into a BSN program upon completion of the program. Appropriate courses are fully accepted on transfer by the University of California, the California State University and by private four-year colleges and universities.

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, eligibility for state licensure and securing employment. Applicants with prior convictions are urged to visit the California Board of Registered Nursing prior to applying to the program at www.rn.ca.gov/

Application Period

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. This application is separate from the application to the college.

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 are given for a successful TEAS exam score. All applicants are strongly advised to visit the program website for all TEAS policies, procedures and detailed information on remediation and repeating the exam at <https://www.grossmont.edu/academics/programs/nursing/teas-testing.php>.

Please review the entire TEAS policy PRIOR TO taking the exam.

For all information on admission criteria, see the Nursing website at <https://www.grossmont.edu/academics/programs/nursing/index.php>.

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 Nursing 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. Completion of MATH 103 or a higher numbered math course with a grade of "C" or higher or a grade of "P".
 - b. Placement into MATH 125 or a math course numbered MATH 170 or above. (Students meeting competency through placement 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

English as a Second Language 122

2. Oral Communication

Communication 120, 122

3. Analytical Thinking

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.

Anthropology 215

Biology 215

Economics 215

Mathematics 103, 108, 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, 117, 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, 201, 202, 203, 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

Chinese 120, 121, 220, 221, 250, 251

Communication 135, 137, 144, 145

Dance 110, 120

English 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 277

English as a Second Language 115

Ethnic Studies 122, 123, 126, 127, 134, 143, 144, 147, 149, 152, 236, 237, 238

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

Music 110, 111, 115, 116, 117, 123, 189

Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155, 160

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, 205

Area D - Social Sciences

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

Administration of Justice 110
 Anthropology 120, 122, 127, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 126, 128
 Economics 110, 120, 121
 Ethnic Studies 107, 114, 115, 118, 119, 124, 125, 128,
 130, 131, 135, 137, 138, 145, 153, 180, 181
 Family Studies 115, 120
 Geography 100, 101, 106, 130, 170
 Gender Studies 116, 117, 154, 155
 Health Education 120, 201
 Health Science 110
 History 107, 108, 109, 114, 115, 118, 119, 122, 123, 124,
 130, 131, 154, 155, 180, 181
 Media Communications 110, 210
 Nutrition 155, 158, 159
 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, 150

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 | Human Anatomy | 5 |
| and Biology 141 | Human Physiology | 3 |
| and Biology 141L | Laboratory in Human | 1 |
| Physiology or Biology 144 | Anatomy and Physiology I | (4) |
| and Biology 145 | Anatomy and Physiology II | (4) |
| Biology 152 | Paramedical Microbiology | 5 |
| Communication 120 | Interpersonal Communication | 3 |
| or Communication 122 | Public Speaking | (3) |
| English 120 | College Composition and Reading | 3 |
| or English 124 | Advanced Composition: Critical Reasoning and Writing | (3) |
| or English as a Second Language 122 | College Rhetoric | (6) |
| Nursing 118 | Nursing Pharmacology | 2 |
| Nursing 120 | Fundamentals of Nursing | 8 |
| Nursing 130 | Medical-Surgical Nursing I | 5 |
| Nursing 132 | Obstetric and Pediatric Nursing | 5 |
| Nursing 220 | Medical-Surgical Nursing II | 5.5 |
| Nursing 222 | Psychiatric and Community Health Nursing | 5.5 |
| Nursing 230 | Medical-Surgical Nursing III | 8 |
| Psychology 120 | Introductory Psychology | 3 |
| Sociology 114 | Introduction to Race & Ethnicity | 3 |
| or Sociology 120 | Introductory Sociology | (3) |
| | Total | 64-68* |
| | Plus Remaining General Education Requirements for Nursing Majors | 6 |
| | Total Required | 70-74* |

*maximum totals include the 5 unit Anatomy course and the 6 unit ESL 122 course.

OCCUPATIONAL THERAPY ASSISTANT

See page 14 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.

Students are admitted to the Occupational Therapy Program based on the date a complete application packet is submitted to include the following: OTA application, completed immunizations and/or tests, official transcripts of all science prerequisites and courses completed in the major if taken outside of GCCCD. Program applications are accepted year round and is a separate process from an application to Grossmont College.

For all information on admission criteria, see the Occupational Therapy Assistant Program website at <https://www.grossmont.edu/academics/programs/health-professions/occupational-therapy-assistant/index.php>.

Grossmont College prepares the student for an Associate Degree in Science as an Occupational Therapy Assistant. In addition to the occupational therapy assistant courses, the major requires selected general education courses to be successfully completed for the degree. Upon completion of all degree requirements, the graduate is eligible to apply to take the national certification exam for Occupational Therapy Assistants administered by the National Board for Certification of Occupational Therapy (NBCOT). All states require licensure to practice as an OTA however, state licenses are usually based on the results of the NBCOT Certification Exam.

The Associate Degree Occupational Therapy Assistant Program is accredited through the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 6116 Executive Boulevard, suite 200, North Bethesda, MD 20852.

Graduates of the OTA program are also eligible to transfer into a higher degree program upon completion of the Associates Degree program. Appropriate courses are fully accepted on transfer by the University of California, the California State University and by private four-year colleges and universities.

IMPORTANT: Any prior conviction of a misdemeanor or felony may influence eligibility for licensure as an Occupational Therapy Assistant. A flagged background check or drug screen may also prohibit participation in the OTA program, eligibility for state licensure and securing employment. Applicants with prior convictions are urged to contact the Occupational Therapy Board of California at 916-263-2294 and the NBCOT at 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. Completion of MATH 103 or a higher numbered math course with a grade of "C" or higher or a grade of "P".
 - b. Placement into MATH 125 or a math course numbered MATH 170 or above. (Students meeting competency through placement 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

English as a Second Language 122

2. Oral Communication

Communication 120, 122, 130

3. Analytical Thinking

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.

Anthropology 215

Biology 215

Economics 215

Geography 104

Mathematics 103, 108, 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, 117, 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, 201, 202, 203, 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

Chinese 120, 121, 220, 221, 250, 251

Communication 135, 137, 144, 145

Dance 110, 120

English 122, 126, 134, 135, 136, 137, 201, 203,

215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 277

English as a Second Language 115

Ethnic Studies 122, 123, 126, 127, 134, 143, 144, 147, 149, 152, 236, 237, 238

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

Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155, 160
 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, 205

Area D - Social Sciences

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

Administration of Justice 110
 Anthropology 120, 122, 127, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 126, 128
 Economics 110, 120, 121
 Ethnic Studies 114, 115, 118, 119, 124, 125, 128, 130, 131, 135, 137, 138, 145, 153, 180, 181
 Family Studies 115, 120
 Geography 100, 101, 106, 130, 170
 Gender Studies 116, 117, 154, 155
 Health Education 120, 201
 Health Science 110
 History 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181
 Media Communications 110, 210
 Nutrition 155, 158, 159
 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, 150

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, 083A, 083B, 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, 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 026, 027A, 027B, 027C, 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 | Human Anatomy | 5 |
| and Biology 141 or Biology 144 | Human Physiology | 3 |
| and Biology 145 | Human Anatomy & Physiology I | (4) |
| Family Studies 120 | Human Anatomy & Physiology II | (4) |
| Occupational Therapy Assistant 100 | Human Development | 3 |
| Occupational Therapy Assistant 101 | Fundamentals of Occupational Therapy | 2 |
| Occupational Therapy Assistant 102 | Fundamentals of Activity / Therapeutic Media | 2 |
| Occupational Therapy Assistant 110 | Rehabilitation Terminology, Diseases and Diagnoses | 2 |
| Occupational Therapy Assistant 111 | Occupational Skills – Psychosocial | 4 |
| Occupational Therapy Assistant 120 | Experiential/Simulation I | 1 |
| Occupational Therapy Assistant 130 | Documentation in Occupational Therapy | 3 |
| Occupational Therapy Assistant 140 | Dynamics of Human Movement | 4 |
| Occupational Therapy Assistant 141 | Occupational Skills Development in Pediatric Roles | 3 |
| Occupational Therapy Assistant 200 | Experiential/Simulation II | 1 |
| Occupational Therapy Assistant 210 | Introduction to Occupational Therapy Skills | 3 |
| Occupational Therapy Assistant 220 | Physical Rehabilitation Assistive Technology in Occupational Therapy | 3 |
| Occupational Therapy Assistant 230 | Advanced Occupational Therapy Skills for Physical Dysfunction | 3 |
| Occupational Therapy Assistant 240 | Experiential/Simulation III | 1 |
| Occupational Therapy Assistant 241 | Occupational Therapy Management | 2 |
| | Clinical Practicum IV | 6 |
| | Clinical Practicum V | 6 |
| | Total | 57 |
| | Plus General Education Requirements | 14 |
| | Total Required | 71 |

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) below are outcomes 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 201 | Mechanics and Waves | 5 |
| Physics 202 | Electricity, Magnetism & Heat | 5 |
| Total | | 8-10 |

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 15 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).

Students are admitted to the Orthopedic Technology Program based on the date a completed application packet is submitted to include the following: OT application, completed immunizations and/or tests and official transcripts of all science prerequisites if taken outside of GCCCD. Program applications are accepted year round and is a separate process from an application to Grossmont College.

For all information on admission criteria, see the Orthopedic Technology Program website at <https://www.grossmont.edu/academics/programs/health-professions/orthopedic-technology/index.php>.

Grossmont College prepares the student for an Associate Degree in Science as an Orthopedic Technologist or, upon successful completion of the Orthopedic Technology courses, a Certificate of Achievement. In addition to the orthopedic technology courses, the major requires selected general education courses to be successfully completed for the degree. Upon completion of all degree requirements, the graduate is eligible to sit for the certification exam as a Certified Orthopedic Technologist administered by the National Board for Certification of Orthopaedic Technologists, Inc. (NBCOT).

IMPORTANT: Any prior conviction of a misdemeanor or felony may influence eligibility for licensure or certification as an Orthopedic Technologist. A flagged background check or drug screen may also prohibit participation in the program, certification exam, or securing employment. Applicants with prior convictions are urged to contact the National Board for Certification of Orthopaedic Technologists, Inc. (NBCOT) at 866-466-2268.

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.

General Education Requirements For Orthopedic 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

1. Completion of MATH 103 or a higher numbered math course with a grade of "C" or higher or a grade of "P".
2. Competency in Mathematics shown by either
 - a. Earning a grade of "C" or better, or "Pass," in Mathematics 103 or a higher numbered mathematics course or
 - b. Placement into MATH 125 or a math course numbered MATH 170 or above. (Students meeting competency through placement 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
English as a Second Language 122

2. Oral Communication

Communication 120, 122, 130

3. Analytical Thinking

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.
Anthropology 215
Biology 215
Economics 215
Geography 104
Mathematics 103, 108, 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, 117, 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, 201, 202, 203, 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
 Dance 110, 120
 English 122, 126, 134, 135, 136, 137, 201, 203,
 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238,
 277
 English as a Second Language 115
 Ethnic Studies 122, 123, 126, 127, 134, 143, 144, 147,
 149, 152, 236, 237, 238
 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
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145,
 150, 155, 160
 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, 205

Area D - Social Sciences

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

Administration of Justice 110
 Anthropology 120, 122, 127, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 126, 128
 Economics 110, 120, 121
 Ethnic Studies 107, 114, 115, 118, 119, 124, 125, 128,
 130, 131, 135, 137, 138, 145, 153, 180, 181
 Family Studies 115, 120
 Gender Studies 116, 117, 154, 155
 Geography 100, 101, 106, 130, 170
 Health Education 120, 201
 Health Science 110
 History 107, 108, 109, 114, 115, 118, 119, 122, 123, 124,
 130, 131, 154, 155, 180, 181

Media Communications 110, 210
 Nutrition 155, 158, 159
 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, 150

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, 083A, 083B, 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,
 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B,
 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A,
 024B, 024C, 026, 027A, 027B, 027C, 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

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

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.

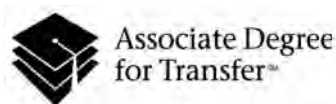
Note: All courses in the major must be completed with a letter grade of "C" or higher.

| Subject & Number | Title | Units |
|---------------------------|--|-------|
| Orthopedic Technology 110 | Orthopedic Anatomy and Physiology | 5 |
| Orthopedic Technology 111 | Orthopedic Techniques I | 4 |
| Orthopedic Technology 112 | Introduction to Clinical Practicum | 3 |
| Orthopedic Technology 210 | Diagnosis and Treatment of Orthopedic Disorders I | 5 |
| Orthopedic Technology 211 | Orthopedic Techniques II | 4 |
| Orthopedic Technology 212 | Supervised Hospital Clinical Practicum I | 3 |
| Orthopedic Technology 214 | Supervised Hospital Clinical Practicum II | 4 |
| Orthopedic Technology 215 | Diagnosis and Treatment of Orthopedic Disorders II | 3 |
| | Total Required | 31 |
| | 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 IN ARTS IN PHILOSOPHY FOR TRANSFER (AA-T)

The Associate in Arts in Philosophy for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

The Associate in Arts in Philosophy for Transfer 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)

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 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 |
| 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.

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:

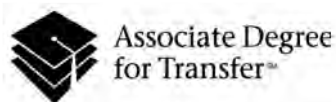
| Subject & Number | Title | Units |
|------------------|---------------------------------|----------|
| Philosophy 111 | Philosophy and Popular Culture | 3 |
| Philosophy 112 | The Classical Mind | 3 |
| Philosophy 114 | The Medieval Mind | 3 |
| Philosophy 116 | The Modern Mind | 3 |
| Philosophy 118 | 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 |
| Philosophy 160 | Latin American Philosophy | 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 (AS-T)

The Associate in Science in Physics for Transfer (AS-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 (AS-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 or "Pass" in all courses required for the major.

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 201 | Mechanics and Waves | 5 |
| Physics 202 | Electricity, Magnetism & Heat | 5 |
| Physics 203 | Light, Optics and Modern Physics | 5 |
| Math 180 | Analytic Geometry & Calculus I | 5 |
| Math 280 | Analytic Geometry & Calculus II | 4 |
| Math 281 | Multivariable Calculus | 4 |
| Units for the major | | 28 |
| 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.

PHYSICS

The Associate in Science Physics 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 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 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 201 | Mechanics and Waves | 5 |
| Physics 202 | Electricity, Magnetism & Heat | 5 |
| Physics 203 | Light, Wave Motion and Modern Physics | 5 |
| | Total Required | 38 |
| | Plus General Education and Elective Requirements | |



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER (AA-T)

The Associate in Arts in Political Science for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 | Elementary Statistics | 4 |
| or | | |
| Anthropology 215 | Statistics for the Behavioral Sciences | (4) |
| or | | |
| Psychology 215 | Statistics for the Behavioral Sciences | (4) |
| or | | |
| Sociology 215 | 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.

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 |

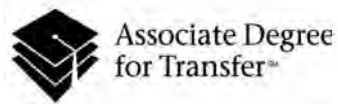
Select ONE (1) of the following courses:

| Subject & Number | Title | Units |
|------------------|---|-------|
| Economics 120 | Principles of Macroeconomics | 3 |
| Geography 130 | Human & Cultural Geography | 3 |
| | Total | 3 |
| | Total Required Plus General Education and Elective Requirements | 18 |

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 IN ARTS IN PSYCHOLOGY FOR TRANSFER (AA-T)

The Associate in Arts in Psychology for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 | 4 |
| Psychology 140 | Physiological Psychology | 3 |
| | | 3-4 |

List B

Select THREE (3) of the following courses:

Any List A course not used above or

| | | |
|----------------|---|-------|
| Psychology 138 | Social Psychology | 3 |
| Psychology 150 | Developmental Psychology | 3 |
| Psychology 170 | Abnormal Psychology | 3 |
| Psychology 201 | Academic & Career Opportunities in Psychology | 1 |
| Psychology 220 | Learning | 3 |
| | 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.

RESPIRATORY THERAPY

See page 15 for special admission procedures and criteria.

Respiratory Therapists, also known as Respiratory Care Practitioners are allied health professionals trained and educated to care for patients in need of cardio-pulmonary support. Respiratory therapist assess, use diagnostic tests to evaluate, treat, educate, and provide care to patients from birth until the end-of-life. A respiratory therapist has probably provided you with care if you have or have ever had asthma, chronic obstructive pulmonary disease, pneumonia, suffered trauma, delivered a baby prematurely or by cesarean section, suffered a respiratory or cardiac arrest, or needed life support.

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.

For all information on admission criteria, see the Respiratory Therapy Program website at <https://www.grossmont.edu/academics/programs/health-professions/respiratory-therapy/index.php>

Grossmont College prepares the student for an Associate Degree in Science in Respiratory Therapy. In addition to the respiratory therapy courses, the major requires selected general education courses to be successfully completed for the degree. Upon completion of all degree requirements, the graduate is eligible to apply for the licensing exam administered by the National Board for Respiratory Care (NBRC). All states, excluding Alaska require licensure to practice as an RT.

The Associate Degree in Respiratory Therapy Program is accredited through the Commission on Accreditation for Respiratory Care (CoARC) located at 264 Precision Blvd., Telford, TN 37690. <http://coarc.com/>

Graduates of the RT program are also eligible to transfer into a BSRT program upon completion of the program. Appropriate courses are fully accepted on transfer by the University of California, the California State University and by private four-year colleges and universities.

IMPORTANT: Any prior conviction of a misdemeanor or felony may influence eligibility for licensure as a Respiratory Therapist. A flagged background check or drug screen may also prohibit participation in the RT program and securing employment. Applicants with prior convictions are urged to contact the Respiratory Care Board of California (RCB) at 866-375-0386.

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. Completion of MATH 103 or a higher numbered math course with a grade of "C" or higher or a grade of "P".
 - b. Placement into MATH 125 or a math course numbered MATH 170 or above. (Students meeting competency through placement 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

English as a Second Language 122

2. Oral Communication

Communication 120, 122, 130

3. Analytical Thinking

Must be completed with a "C" grade or higher or "Pass" to satisfy the competency requirement.

Anthropology 215

Biology 215

Economics 215

Geography 104

Mathematics 103, 108, 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, 117, 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, 201, 202, 203, 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
 Chinese 120, 121, 220, 221, 250, 251
 Communication 135, 137, 144, 145
 Dance 110, 120
 English 122, 126, 134, 135, 136, 137, 201, 203, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238, 275, 276, 277
 English as a Second Language 115
 Ethnic Studies 122, 123, 126, 127, 134, 143, 144, 147, 149, 152, 236, 237, 238
 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
 Music 110, 111, 115, 116, 117, 123, 189
 Philosophy 110, 111, 112, 114, 116, 118, 140, 141, 145, 150, 155, 160
 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, 205

Area D - Social Sciences

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

Administration of Justice 110
 Anthropology 120, 122, 127, 140
 Child Development 115, 125, 131, 134, 145, 153
 Communication 124, 126, 128
 Economics 110, 120, 121
 Ethnic Studies 107, 114, 115, 118, 119, 124, 125, 128, 130, 133, 135, 137, 138, 145, 153, 180, 181
 Family Studies 115, 120
 Gender Studies 116, 117, 154, 155
 Geography 100, 101, 106, 130, 170
 Health Education 120, 201
 Health Science 110
 History 107, 108, 109, 114, 115, 118, 119, 122, 123, 124, 130, 131, 154, 155, 180, 181
 Media Communications 110, 210
 Nutrition 155, 158, 159
 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, 150

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, 083A, 083B, 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, 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 026, 027A, 027B, 027C, 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 Biology 152 Chemistry 115 Respiratory Therapy 105 Respiratory Therapy 108 | Anatomy & Physiology I | (4) |
| | Anatomy & Physiology II | (4) |
| | Paramedical Microbiology | 5 |
| | Fundamentals of Chemistry | 4 |
| | Cardiopulmonary Physiology and Disease Entities | 4 |
| | Basic Respiratory Therapy Equipment, Procedures and Life Support Systems | 5 |
| Respiratory Therapy 112 | 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 Proficiency

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.

Sleep Disorders, Diagnostic Procedures, and Treatment

This certificate accompanies the completion of Respiratory Therapy 220: Sleep Disorders, Diagnostic Procedures, and Treatments with a letter grade of "C" or higher. It prepares the student to effectively work in an entry level position in sleep medicine.

The Program-level Student Learning Outcomes

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

1. Evaluate results of sleep studies and recommend appropriate treatment.
2. Demonstrate appropriate knowledge of patient preparation for specific sleep studies.

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

| Subject and Number | Title | Units |
|--------------------|--|-------|
| RESP 220 | Sleep Disorders, Diagnostic Procedures, and Treatments | 4 |
| | Total | 4 |

RETAIL MANAGEMENT

Retail sales and management is one of the largest fields for employment in the United State. 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

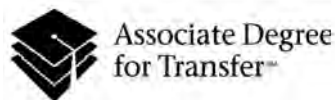
Note: All courses in the major must be completed with a letter grade of "C" or higher.

| 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 IN ARTS IN SOCIOLOGY FOR TRANSFER (AA-T)

The Associate in Arts in Sociology for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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 courses:

| | | |
|-----------------|------------------------------------|-----|
| Sociology 130 | Contemporary Social Problems | 3 |
| Sociology 215 | Statistics for Behavioral Sciences | 4 |
| or | | |
| Mathematics 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 | 3 |
| Sociology 140 | Sex and Gender Across Cultures | 3 |
| Sociology 150 | Latinx Sociology | 3 |
| Total | | 6 |

List C

Select ONE (1) of the following courses:

| | | |
|--|-------------------------------------|-------|
| Any course from List A or List B not used above or | | |
| Anthropology 120 | Cultural Anthropology | 3 |
| Geography 130 | Human and Cultural Geography | 3 |
| | Human Sexuality | 3 |
| Psychology 134 | 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.



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER (AA-T)

The Associate in Arts in Spanish for Transfer (AA-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 (AA-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 or "Pass" in all courses required for the major.

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.

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 |
| Ethnic Studies 118 | U.S. History: The Chicano/ Chicana Perspectives I | 3 |
| or | | |
| History 118 | U.S. History: Chicano/ Chicana Perspectives I | (3) |
| Ethnic 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



Associate Degree
for Transfer™

ASSOCIATE IN ARTS IN THEATRE ARTS FOR TRANSFER (AA-T)

The Associate in Arts in Theatre Arts for Transfer (AA-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 system to major in Theatre Arts or a related major.

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. Develop an appreciation of learning and create a diverse aesthetic for Theatre and its place in culture and society.
2. Provide high quality, accessible theatrical productions at a reasonable cost for our students and the community at large.
3. Equip students with an understanding of the proper artistic conduct in all academic and professional environments.

The Associate in Arts in Theatre Arts for Transfer (AA-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. 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 should speak with a counselor to verify that the requirements for this degree have been met. In addition, students planning to transfer to SDSU should consult with a counselor.

The Theatre Arts department 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.

The following requirements must be met to be awarded an Associate in Arts in Theatre Arts for Transfer (AA-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 or "Pass" in all courses required for the major.

Associate Degree in Theatre Arts for Transfer Major Requirements

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

Required Core

| Subject & Number | Title | Units |
|------------------|-----------------------------|-------|
| Theatre Arts 110 | Introduction to the Theatre | 3 |
| Theatre Arts 130 | Acting I | 3 |

Select (3 units maximum)

| | | |
|----------------------|---|----------|
| Theatre Arts 102ABCD | Theatre Production Practicum: Costumes I, II, III, IV | 2 |
| Theatre Arts 103ABCD | Theatre Production Practicum: Sets I, II, III, IV | 2 |
| Theatre Arts 104ABCD | Theatre Production Practicum: Lighting & Sound I, II, III, IV | 2 |
| Theatre Arts 111ABCD | Rehearsal and Performance: Acting I, II, III, IV | 2 |
| Theatre Arts 112ABCD | Rehearsal and Performance: Stage Management I, II, III, IV | 2 |
| Theatre Arts 122ABCD | Theatre Workshop Laboratory: Acting I, II, III, IV | 1 |
| Theatre Arts 123ABCD | Theatre Workshop Laboratory: Construction I, II, III, IV | 1 |
| | Total | 9 |

List A: Select NINE (9) units from the following courses:

| | | |
|-------------------|---|---|
| Theatre Arts 101 | Introduction to Narrative Theory | 3 |
| Theatre Arts 131 | Acting II | 3 |
| Theatre Arts 134A | Fundamentals of Costume Design and Construction | 3 |
| Theatre Arts 155 | Stagecrafts | 3 |
| Theatre Arts 156 | Fundamentals of Scenic Design | 3 |
| Theatre Arts 157 | Fundamentals of Stage Lighting and Sound | 3 |

or

Select from the required core courses not already used (3 units maximum)

| | | |
|----------------------|---|-----------|
| Theatre Arts 102ABCD | Theatre Production Practicum: Costumes I, II, III, IV | 2 |
| Theatre Arts 103ABCD | Theatre Production Practicum: Sets I, II, III, IV | 2 |
| Theatre Arts 104ABCD | Theatre Production Practicum: Lighting & Sound I, II, III, IV | 2 |
| Theatre Arts 111ABCD | Rehearsal and Performance: Acting I, II, III, IV | 2 |
| Theatre Arts 112ABCD | Rehearsal and Performance: Stage Management I, II, III, IV | 2 |
| Theatre Arts 122ABCD | Theatre Workshop Laboratory: Acting I, II, III, IV | 1 |
| Theatre Arts 123ABCD | Theatre Workshop Laboratory: Construction I, II, III, IV | 1 |
| | Total | 9 |
| | Units for the major | 18 |
| | Units for CSU GE or IGETC –CSU GE | 37-39 |
| | Total units required for the degree | 60 |

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 | 17 |

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 | Acting III | 3 |
| or | | |
| Theatre Arts 132 | 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 | | 27-28 |
| 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 or | Theatre Makeup | 2 |
| 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 | | 26-28 |

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: <https://www.grossmont.edu/student-support/transfer-center/articulation/index.php> for current articulation of courses required for transfer majors.

Students who intend to transfer must complete a minimum of 36-39 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.)
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. Students pursuing a University Studies degree in Mathematics and Natural Science and Computer Science are eligible to use CSU for STEM to fulfill the general education requirements of this 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. Students pursuing a University Studies degree in Mathematics and Natural Science and Computer Science are eligible to use IGETC for STEM to fulfill the general education requirements of this 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.)
- or**
2. ES 001, 002, 003, 004A, 004B, 004C, 005A, 005B, 005C, 006A, 006B, 006C, 007A, 007B, 007C, 008A, 008B, 008C, 009A, 009B, 009C, 017A, 017B, 017C, 021A, 021B, 021C, 023A, 023B, 023C, 024A, 024B, 024C, 026, 027A, 027B, 027C, 028A, 028B, 028C, 029, 037A, 037B, 037C, 039, 040A, 040B, 040C, 041, 043A, 043B, 043C, 044A, 044B, 044C, 060A, 060B, 060C, 076A, 076B, 076C, 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

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. Use information technology and principles of business to support effective decision making in organizations.
2. Analyze markets, economic environments and associated trends at the macro and/or micro levels.
3. Apply mathematical and quantitative skills in order to make sound decisions and solve problems in the business environment.

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 three units or one course in business, three units or one course in economics. The remaining units may be taken from either category.

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. Demonstrate the ability to analyze information and write effectively.
2. Organize thoughts and ideas in both oral and written format.
3. Communicate effectively with diverse audiences.

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 three units in communication and three units in language arts. The remaining units may be taken from either category.

Communication

COMM 120, 122, 123, 124, 126*, 128, 135, 136, 137, 144, 145

ETHN 144

MCOM 110, 111, 112*, 116*, 117*, 118*, 120

Language Arts

ARBC 120, 121, 122, 123, 148, 220, 221, 250, 251

ASL 120, 121, 140, 220, 221

CHIN 120, 121, 220, 221, 250, 251

ENGL 122, 124, 126, 130, 131, 132, 133, 140, 141, 142, 143, 215, 219, 221, 222, 231, 232

ETHN 122, 123

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. Analyze the principle elements of representative examples of art, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
2. Demonstrate an awareness of the historical and philosophical contexts of representative areas, movements, media, works, and/or styles of cultural and/or intellectual creativity.
3. Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.

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 three units, or one course, in Humanities and three units, or one course, in Fine Arts. The remaining 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

ENGL 122, 201, 215, 217, 218, 219, 221, 222, 231, 232, 236, 237, 238

ETHN 127, 135, 145, 236, 237, 238

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, 160*

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, 104*, 106, 119, 120, 121, 124, 125, 126, 127, 128, 129, 130, 131*, 132*, 133*, 140, 141, 142, 143, 145, 146, 147, 172, 210, 221, 222
 DANC 068, 071AB, 072AB, 080A-D, 081A-D, 082AB, 084A-D, 088A-D, 094A-D, 099ABC, 110, 120*, 205, 206
 ETHN 126, 127, 134
 MUS 101, 102, 105, 106, 110, 111, 115, 116, 117, 123, 124, 125, 126, 127, 128, 129, 130, 132, 133, 134, 135, 138, 139, 140*, 141*, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 160*, 164, 165, 166, 167, 168, 169, 170, 171, 180, 181, 189, 190, 191, 201, 202, 203, 204, 205, 206, 210, 211, 212, 213, 224, 226, 232, 233, 238, 239, 240, 241*, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 264, 265, 266, 267, 268, 269, 270, 271, 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, 205, 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. Solve complex problems using mathematics, natural and/or computer science.
2. Utilize high level mathematical skills to analyze data and/or solve problems.
3. Analyze concepts of physical and biological science to evaluate scientific information and solve scientific problems.

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 three units, or one course, in Mathematics, and a minimum of three units, or one course, in Natural Science or Computer Science. The remaining units may be taken from any category.

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, 117, 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, 201, 202, 203, 240, 241
 PSC 100, 110, 111
 SCI 110

Computer Science

CSIS 165, 240*, 250*, 251*, 255*, 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. Describe general principles of the political institutions and government of the United States.
2. Demonstrate an understanding and appreciation of social, political, and economic institutions, including a historical perspective.
3. Evaluate the ways in which people interact both within and outside of their own culture as well as society as a whole.
4. Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

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 three units, or one course, in Social Science and three units, or one course, in Behavioral Science. The remaining 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
 COMM 144
 ECON 110, 120, 121, 261
 ETHN 107*, 114, 115, 118, 119, 125, 128, 130, 131, 135, 137, 138, 143, 144, 145, 150*, 180, 181
 GEND 116, 154, 155
 GEOG 100, 101, 106, 130, 170
 HIST 100, 101, 103, 105, 106, 107*, 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, 150*
 SPAN 145*

Behavioral Sciences

ANTH 120, 122, 127, 140

CD 115, 125, 131, 145

COMM 124, 128

COUN 120

ED 200

ETHN 125

FS 115, 120

HED 120, 201

NUTR 155, 158*, 159, 205*, 255

PSY 120, 125, 132, 134, 138, 140, 150, 170, 180, 211, 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.

