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## LOS ANGELES MISSION COLLEGE 2022-2023 CATALOG ADDENDUM I

This addendum contains updates to existing courses and programs, as well as any new courses or programs that were approved after the publication of the 2022-2023 Catalog.

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### COURSE UPDATES

- BIOLOGY 006
- CS 130, 136
- E.S.L. 008
- PHYSICS 038, 039

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### NEW COURSES

- ESL NC 048CE, 049CE, 050CE, 60CE, 120CE, 121CE, 122CE, 123CE, 124CE
- SPANISH 015

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### PROGRAM UPDATES

- ASSOCIATE IN ARTS FOR TRANSFER (AA-T)  
Elementary Teacher Education (M033613G)
- ASSOCIATE IN ARTS FOR TRANSFER (AA-T)  
Spanish (M033613G)
- ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)  
Administration of Justice (M033109H)
- CERTIFICATE OF ACHIEVEMENT  
Multimedia – Animation & 3D Design (M021764D)
- ASSOCIATE IN ARTS FOR TRANSFER (AA-T)  
Kinesiology (M035436G)
- ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)  
Nutrition and Dietetics (M035394H)
- CERTIFICATE OF ACHIEVEMENT  
Land Surveying Technician I (M039524D)
- ASSOCIATE IN ARTS (AA)  
General Studies – Arts & Humanities (M018463C)
- ASSOCIATE IN ARTS (AA)  
General Studies – Communication & Literature (M018464C)
- ASSOCIATE IN ARTS (AA)  
General Studies – Social & Behavioral Sciences (M018466C)
- ASSOCIATE IN ARTS (AA)  
General Studies – Natural Sciences (M018465C)
- ASSOCIATE IN SCIENCE (AS) Health Science (M008338C)
- CERTIFICATE OF COMPETENCY  
Non-Traditional Leadership for Community Enhancement (M041607F)
- CERTIFICATE OF COMPETENCY  
Introduction to CSIT (M038612F)

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### NEW PROGRAMS

- CERTIFICATE OF ACHIEVEMENT  
Medical Office Administrative Assistant (M042628D)
- CERTIFICATE OF COMPETENCY  
Academic Readiness (M041446F)
- CERTIFICATE OF COMPETENCY  
Academic Readiness, Bilingual GED (M041447F)
- CERTIFICATE OF COMPETENCY  
Beginning Level ESL (M042633F)
- CERTIFICATE OF COMPETENCY  
Foundational ESL and Computer Skills (M042632F)
- CERTIFICATE OF COMPETENCY  
High-Beginning Level ESL (M042634F)
- SKILL CERTIFICATE  
Engineering Technician Prep (M095300J)

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### OTHER UPDATES

- COURSES ELIGIBLE FOR CREDIT BY EXAM

## COURSE UPDATES

### BIOLOGY 006 GENERAL BIOLOGY I (UC:CSU:C-ID BIOL 190) 5 UNITS

**Prerequisite:** CHEM 051 or CHEM 065 or CHEM 101 | **Lecture:** 3 hrs,

**Lab:** 6 hrs

Examines the unifying principles of biology through the study of biological molecules, cell structure and function, metabolism, inheritance, molecular genetics, and development. Together with Biology 7, this is a fundamental course for biology majors.

### CS 130 INTRODUCTION TO COMPUTER ARCHITECTURE AND ORGANIZATION – (UC:CSU:C-ID COMP 142) 3 UNITS

**Prerequisite:** CS 102 or CS 113 or CS 114 or CS 116 | **Lecture:** 2 hrs,

**Lab:** 2 hrs

Covers organization and operation of real computer systems at the assembly-language level. Studies mapping statements and constructs in a high-level language onto sequences of machine instructions as well as the internal representations of simple data types and structures. Investigates basic principles of operating systems and programming language translation process.

### CS 136 INTRODUCTION TO DATA STRUCTURES (UC:CSU) 3 UNITS

**Prerequisite:** CS 213 or CS 216 | **Lecture:** 2 hrs, **Lab:** 2 hrs

Covers abstract data types including a deeper understanding of object-oriented programming concepts. Students will learn how to analyze running times of algorithms using analysis tools. Implements linear data structures including stacks, queues, and hash tables. Implement and utilize binary search trees to solve problems.

### E.S.L. 008 ADVANCED ESL COMPOSITION – (CSU) 6 UNITS

**Prerequisites:** E.S.L. 006A or appropriate placement | **Lecture:** 6 hrs

*NOTE: Student receives a letter grade*

Students in this high-advanced ESL course leading to English 101 learn written composition, grammar, and critical reading skills to prepare for college work. The emphasis is on writing based primarily on critical reading and interpretation/analysis. Students will practice using MLA and/or APA citation and bibliographic conventions in their research. Advanced grammar skills and mechanics are emphasized throughout each lesson. Required: Eight to ten writing assignments, including at least four essays of 600-800 words, and one research paper.

### PHYSICS 038 PHYSICS FOR ENGINEERS & SCIENTISTS II (UC:CSU:C-ID PHYS 210) 5 UNITS

**Prerequisite:** PHYSICS 037 and MATH 262 | **Lecture:** 4 hrs, **Lab:** 3 hrs

Designed for Physics, Astronomy, Chemistry, Engineering and Mathematics majors. Topics include mechanical waves, electric charge and electric fields, electric energy storage, electric currents, magnetism, electromagnetic induction, electromagnetic oscillations, AC circuits, and Maxwell's Equations.

### PHYSICS 039 PHYSICS FOR ENGINEERS & SCIENTISTS III (UC:CSU:C-ID PHYS 215) 5 UNITS

**Prerequisite:** PHYSICS 037 and MATH 262 | **Lecture:** 4 hrs, **Lab:** 3 hrs

Designed for Physics, Astronomy, Chemistry and Engineering majors. Topics include thermodynamics, geometric optics, the wave nature of light, special relativity, early quantum theory, atomic and nuclear physics.

## NEW COURSES

### ESL NC 048CE PRONUNCIATION I: PRODUCING SOUNDS – 18 hrs

**Prerequisite:** None | **Lecture:** 1 hr

This introductory course is for ESL students at the beginning level. It focuses on areas of pronunciation for effective communication in American English. Students will learn how to speak with clear articulation to be understood with ease. Topics covered include vowel and consonant sounds, syllabification, and pronunciation contrast. This is the first of a two-course series in pronunciation.

### ESL NC 049CE PRONUNCIATION II: IMPROVING FLUENCY – 36 hrs

**Prerequisite:** None | **Lecture:** 2 hrs

This introductory course is for ESL students at the beginning level. It focuses on areas of pronunciation for effective communication in American English. Students will review articulation of vowel and consonant sounds, and develop pronunciation fluency by learning about rhythm, focus words, connected speech, intonation, thought groups, and stress. This is the second of a two-course series in pronunciation.

### ESL NC 050CE BEGINNING CONVERSATION – 54 hrs

**Prerequisite:** None | **Lecture:** 3 hrs

This course is for ESL students at the beginning level who wish to improve their listening comprehension of English and to increase

their ability to make themselves understood, using conversational American English speech. Students will be introduced to vocabulary and life skills needed to function in daily life and work situations. Activities ranging from dialogues, pair and group work, and role plays will be used to develop fluency and help students achieve the language skills needed to succeed in academic and career settings.

### ESL NC 051CE INTERMEDIATE CONVERSATION – 54 hrs

**Prerequisite:** None | **Lecture:** 3 hrs

This course is for ESL students at the intermediate level who wish to improve their listening comprehension, speaking, and conversational skills in American English. This course focuses on developing conversational strategies, including verbal and nonverbal communication and appropriate language usage in formal and informal settings.

### ESL NC 120CE PRE-BEGINNING/FOUNDATIONAL ESL – 90 hrs

**Prerequisite:** None | **Lecture:** 5 hrs

This course is for ESL students at the pre-beginning level who need to acquire foundational literacy and communicative skills in English to function as parents, workers, and community members living in the United States. The course emphasizes basic English grammar, vocabulary development, listening/speaking, and reading/writing

skills in a variety of activities related to daily life, community, civics, and college and career readiness.

#### ESL NC 121CE BEGINNING ESL - PART A – 90 hrs

**Prerequisite:** None | **Lecture:** 5 hrs

This course is for ESL students at the beginning level who need to acquire basic life skills and communicative competence in English to function as parents, workers, and community members living in the United States. The course emphasizes basic English grammar, vocabulary development, 21st-century skills, listening/speaking, and reading/writing skills in a variety of activities related to daily life, community, civics, and college and career readiness. This class is the first of a two-course sequence.

#### ESL NC 122CE BEGINNING ESL - PART B – 90 hrs

**Prerequisite:** None | **Lecture:** 5 hrs

This course is for ESL students at the beginning level who need to acquire basic life skills and communicative competence in English to function as parents, workers, and community members living in the United States. The course emphasizes basic English grammar, vocabulary development, 21st century skills, listening/speaking and reading/writing skills in a variety of activities related to daily life, community, civics, and college and career readiness. This is the second of a two-course sequence.

#### ESL NC 123CE HIGH-BEGINNING ESL – PART A – 90 hrs

**Prerequisite:** None | **Lecture:** 5 hrs

This course is for ESL students at the high-beginning level who need to develop or reinforce their life skills and communicative competence in English to function effectively as parents, workers, and community members living in the United States. The course emphasizes level-appropriate grammar, vocabulary development, 21st century skills, listening/speaking, and reading/writing skills in a variety of activities related to daily life, community, civics, and college and career readiness. This class is the first of a two-course sequence.

#### ESL NC 124CE HIGH-BEGINNING ESL – PART B – 90 hrs

**Prerequisite:** None | **Lecture:** 5 hrs

This course is for ESL students at the high-beginning level who need to develop or reinforce their life skills and communicative competence in English to function effectively as parents, workers, and community members living in the United States. The course emphasizes level-appropriate grammar, vocabulary development, 21st-century skills, listening/speaking, and reading/writing skills in a variety of activities related to daily life, community, civics, and college and career readiness. This class is the second of a two-course sequence.

#### SPANISH 015 GREAT BOOKS OF LATIN AMERICAN LITERATURE – (UC:CSU) 3 UNITS

**Prerequisite:** None | **Lecture:** 3 hrs

Students analyze the diverse cultures of Latin America through its most representative authors and works from the Conquest to contemporary times.

## PROGRAM UPDATES

### ASSOCIATE IN ARTS FOR TRANSFER (AA-T) Elementary Teacher Education (M033613G)

The Associate of Arts for Transfer (AA-T) in Elementary Teacher Education is designed for prospective California State University (CSU) transfer students who are preparing for careers as Elementary School Teachers. Completion of the Elementary Teacher Education degree will provide a streamlined pathway for transfer to a CSU campus with a Liberal Studies or similar major.

It is recommended that all students enrolling in Education 001 have proof of a negative TB test (Mantoux test) or chest x-ray within the last twelve months. Additional proof of immunizations including Covid-19 vaccination may be required for in-person observation hours required for Education 001.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Create lesson plans that conform to State Content Standards for California Public Schools and be related to the National Standards.
- Transfer to CSU campuses that offer bachelor's degrees in Liberal Studies or Integrated Teacher Education Programs.

| REQUIRED CORE                            |                                                   | UNITS      |
|------------------------------------------|---------------------------------------------------|------------|
| BIOLOGY 003                              | Introduction to Biology                           | 4          |
| CH DEV 001                               | Child Growth & Development                        | 3          |
| COMM 101                                 | Public Speaking                                   | 3          |
| EARTH 001                                | Earth Science I                                   | 3          |
| EARTH 002                                | Earth Science Laboratory                          | 1          |
| EDUC 001                                 | Introduction to Teaching                          | 3          |
| ENGLISH 101                              | College Reading and Composition I                 | 3          |
| ENGLISH 102                              | College Reading and Composition II                | 3          |
| GEOG 007                                 | World Regional Geography                          | 3          |
| HISTORY 011                              | Political & Social History of the United States I | 3          |
| HISTORY 086                              | Introduction to World Civilization I              | 3          |
| MATH 215                                 | Principles of Mathematics I                       | 3          |
| POL SCI 001                              | The Government of the United States               | 3          |
| <b>Select one (1) course with a lab:</b> |                                                   | <b>4-5</b> |
| CHEM 051                                 | Fundamentals of Chemistry                         | 3          |
| or CHEM 065                              | Introductory General Chemistry                    |            |
| or PHYS SC 001                           | Physical Sciences                                 |            |
| and PHYS SC 014                          | Physical Sciences Laboratory                      |            |
| <b>List A: Select one (1) course</b>     |                                                   | <b>3</b>   |
| ENGLISH 103                              | Composition and Critical Thinking                 | 3          |
| <b>List B: Select one (1) course</b>     |                                                   |            |
| ARTHIST 103                              | Art Appreciation I                                | 3          |

MUSIC 111 Music Appreciation I  
THEATER 100 Introduction to Theater

**List C: Select additional units from the following as needed:** 0-6

CH DEV 045 Programs for Children with Special Needs  
EDUC 203 Education in American Society  
or Any List A or List B course not already used

**Total 48-55**

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### ASSOCIATE IN ARTS FOR TRANSFER (AA-T) Spanish (M033337G)

The Associate in Arts in Spanish for Transfer prepares students to transfer into the CSU system. Students completing the Associate in Arts in Spanish for Transfer are introduced to the language, history, culture and literature of the Spanish-speaking world through coursework and language laboratory assignments. This curriculum is designed to prepare native and near native speakers of Spanish as well as those students studying Spanish as a foreign language to complete a Bachelor's Degree in Spanish. Students will have the opportunity to develop proficiency in understanding, speaking, reading and writing Spanish and to acquaint themselves with Hispanic cultures and civilization.

Students acquire basic skills through listening, speaking, reading, writing, and cultural components of the curriculum to carry on a basic conversation. Students will be prepared for transfer into a baccalaureate degree program in Spanish or a similar major at a CSU.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Produce sentences in all tenses and modes;
- Communicate orally and in writing in Spanish with fluency and comprehension;
- Compare and contrast Spanish and Latin American Cultures with their own culture;
- Express personal feelings while describing people, situations, relationships and places;
- Read critically with ability to summarize and analyze main ideas.

| REQUIRED CORE                                  | UNITS |
|------------------------------------------------|-------|
| SPANISH 001 Elementary Spanish I               | 5     |
| SPANISH 002 Elementary Spanish II              | 5     |
| SPANISH 003 Intermediate Spanish I             | 5     |
| Or SPANISH 035 Spanish for Spanish Speakers I  | 5     |
| SPANISH 004 Intermediate Spanish II            | 5     |
| Or SPANISH 036 Spanish for Spanish Speakers II | 5     |

**List A: Select one (1) course:** 3-5

CHICANO 037 Chicano Literature  
CHICANO 044 Mexican Civilization  
SPANISH 005\* Advanced Spanish I  
SPANISH 006\* Advanced Spanish II  
**SPANISH 026** Understanding Latin America Through Film  
SPANISH 037 Composition and Conversation for Spanish Speakers

**Total 23-25**

*\* Spanish majors are highly encouraged to complete SPANISH 005 and SPANISH 006. Please consult with a counselor.*

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T) Administration of Justice (M033109H)

Transfer to an undergraduate program at the CSU level within the criminal justice field.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Write basic criminal justice reports and research papers using appropriate writing styles;
- Formulate a career plan and an understanding of qualifications and professional expectations to obtain a job in Administration of Justice;
- Apply critical thinking skills and an appropriate problem-solving strategy to a criminal justice situation.

| REQUIRED COURSES                                          | UNITS    |
|-----------------------------------------------------------|----------|
| ADM JUS 001 Introduction to Administration of Justice     | 3        |
| ADM JUS 002 Concepts of Criminal Law                      | 3        |
| <b>List A: Select two (2) courses</b>                     | <b>6</b> |
| ADM JUS 003 Legal Aspects of Evidence                     |          |
| ADM JUS 004 Principles & Procedures of the Justice System |          |
| ADM JUS 005 Criminal Investigation                        |          |
| ADM JUS 008 Juvenile Procedures                           |          |
| ADM JUS 075 Introduction to Corrections                   |          |
| ADM JUS 104 Introduction to Forensic Science              |          |

**List B: Select two (2) courses**

ADM JUS 160 Police Organization & Administration  
MATH 227 Statistics  
PSYCH 001 General Psychology  
SOC 001 Introduction to Sociology  
or Any List A course not already used

**6-7**

**Total 18-19**

*\*Students can alternatively enroll in MATH 227S Statistics with Support*

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### CERTIFICATE OF ACHIEVEMENT Multimedia – Animation & 3D Design (M021764D)

**Program Learning Outcomes** – Upon completion, students will be able to:

- Apply the elements and principles of design with competent skill and technique with computer-based media;
- Present an animation containing the elements of a fully developed narrative or experimental story;

- Plan and produce a storyboard and three-part story structure utilizing the principles of sequential art that leads to a fully developed animation using the computer software.

| REQUIRED FOUNDATION COURSES |                                                  | UNITS           |
|-----------------------------|--------------------------------------------------|-----------------|
| ART 201                     | Drawing I                                        | 3               |
| ART 204                     | Life Drawing I                                   | 3               |
| MULTIMD 100                 | Introduction to Multimedia Computer Applications | 3               |
| MULTIMD 110                 | Visual Communication                             | 3               |
| MULTIMD 210                 | Digital Editing                                  | 3               |
| MULTIMD 220                 | Illustration for Multimedia                      | 3               |
| REQUIRED COURSES            |                                                  |                 |
| MULTIMD 300                 | Design for 3D Computer Applications              | 3               |
| MULTIMD 310                 | Interactive Multimedia                           | 3               |
| MULTIMD 320                 | Web Design                                       | 3               |
| MULTIMD 400                 | Introduction to Experimental Animation           | 3               |
| MULTIMD 402                 | Animation Workshop                               | 3               |
| MULTIMD 430                 | Computer Applications for 3D Animation           | 3               |
| MULTIMD 500                 | Multimedia Laboratory                            | 1               |
|                             |                                                  | <b>Total 37</b> |

## ASSOCIATE IN ARTS FOR TRANSFER (AA-T) Kinesiology (M035436G)

The Associate in Arts for Transfer in Kinesiology is intended for students who plan to complete a bachelor's degree in Kinesiology or a similar major at a CSU campus. This degree will provide the student with a strong foundation in the discipline, as well as breadth of exposure to various areas included in this field.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Differentiate the evidence-based research supporting the wellness effects of exercise in our communities, schools, work place and clinical settings.
- Identify the uniqueness of kinesiology as a discipline and its integration of a multi-dimensional study and application of physical activity as it relates to biological, medical and health related aspects of the human body.
- Recognize the areas of study and professional opportunities associated with the Kinesiology major.

| REQUIRED CORE |                                  | UNITS |
|---------------|----------------------------------|-------|
| ANATOMY 001   | Introduction to Human Anatomy    | 4     |
| KIN MAJ 100   | Introduction to Kinesiology      | 3     |
| PHYSIOL 001   | Introduction to Human Physiology | 4     |

**Select three (3) courses (maximum one course from any three of the following areas):** **3-5**

### COMBATIVES

|           |           |
|-----------|-----------|
| KIN 316-1 | Karate I  |
| KIN 316-2 | Karate II |

### DANCE

|             |                            |
|-------------|----------------------------|
| DANCETQ 121 | Jazz Dance Techniques I    |
| DANCETQ 122 | Jazz Dance Techniques II   |
| DANCETQ 141 | Modern Dance Techniques I  |
| DANCETQ 142 | Modern Dance Techniques II |
| DANCETQ 462 | Modern Dance               |

### FITNESS

|           |                     |
|-----------|---------------------|
| KIN 329-1 | Body Conditioning I |
| KIN 332   | Step Aerobics       |
| KIN 347-1 | Pilates Mat         |
| KIN 350-1 | Weight Training I   |
| KIN 351-1 | Yoga I              |

### INDIVIDUAL SPORTS

|           |                  |
|-----------|------------------|
| KIN 266   | Badminton Skills |
| KIN 268-1 | Golf Skills I    |

### TEAM SPORTS

|              |                                                         |
|--------------|---------------------------------------------------------|
| KIN 286      | Baseball Skills                                         |
| KIN 387-1, 2 | Basketball I, II                                        |
| KIN ATH 511  | Intercollegiate Athletics - Soccer                      |
| KIN ATH 512  | Intercollegiate Athletics - Softball                    |
| KIN ATH 516  | Intercollegiate Athletics - Volleyball                  |
| KIN ATH 552  | Intercollegiate Sports – Conditioning & Skills Training |

**List A: Select two (2) courses:**

**7-9**

|             |                             |
|-------------|-----------------------------|
| BIOLOGY 003 | Introduction to Biology     |
| CHEM 051    | Fundamentals of Chemistry I |
| or CHEM 101 | General Chemistry I         |
| KIN MAJ 101 | First Aid and CPR           |
| MATH 227*   | Statistics                  |
| PHYSICS 006 | General Physics I           |

**Total 21-25**

\* Students can alternatively enroll in MATH 227S Statistics with Support

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

## ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T) Nutrition and Dietetics (M035394H)

The Associate in Science in Nutrition and Dietetics for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers as Registered Dietitians/Nutritionists (RDs), Nutrition and Dietetic Technicians Registered (NDTRs), or other nutrition of food science professionals. Completion of the Nutrition and Dietetics degree will provide a streamlined pathway for transfer to a CSU campus with a Family and Consumer Sciences or similar major.

**Program Learning Outcomes** - Upon completion, students will be able to:

- Apply the physical, biological, and social sciences to the study of foods and nutrition.
- Recognize how food and nutrition affect health and human performance across the lifecycle and impact both local and global concerns.
- Effectively communicate and critically think about food and nutrition issues with an understanding and appreciation of a diverse and multicultural society.

| REQUIRED CORE                         |                               | UNITS      |
|---------------------------------------|-------------------------------|------------|
| CHEM 101                              | General Chemistry I           | 5          |
| CHEM 102                              | General Chemistry II          | 5          |
| MICRO 020                             | General Microbiology          | 4          |
| NUTRTN 021                            | Nutrition                     | 3          |
| PSYCH 001                             | General Psychology I          | 3          |
| <b>List A: Select one (1) course:</b> |                               | <b>4</b>   |
| MATH 227*                             | Statistics                    |            |
| <b>List B: Select one (1) course:</b> |                               | <b>4-5</b> |
| BIOLOGY 003                           | Introduction to Biology       |            |
| BIOLOGY 005                           | Introduction to Human Biology |            |
| BIOLOGY 006                           | General Biology I             |            |

**Total 28 -29**

\* Students can alternatively enroll in MATH 227S Statistics with Support

NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.

## CERTIFICATE OF ACHIEVEMENT Land Surveying Technician I (M039524D)

This career and technical education is the first level of Land Surveying Technician program. It aims to prepare the prospective employees to meet and exceed employer's expectations in engineering land surveying related fields. Completion of the program will enable the individuals to start a career in Land Surveying.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Demonstrate the ability to use surveying apparatus.
- Solve basic plane surveying related problems.

| REQUIRED COURSES |                                                         | UNITS |
|------------------|---------------------------------------------------------|-------|
| CS 101*          | Introduction to Computer Science                        | 3     |
| DRAFT 016        | Blueprint Reading I                                     | 2     |
| EGD TEK 101      | Engineering Graphics                                    | 3     |
| EGD TEK 111      | 2-D Computer-Aided Drafting                             | 3     |
| ENG SUP 121      | Plane Surveying I                                       | 3     |
| ENG SUP 200      | Business Practices for Land Surveyors & Civil Engineers | 1     |
| ENGLISH 101      | College Reading & Composition I                         | 3     |
| IND TEK 103      | Technical Writing and Communication                     | 2     |
| MATH 240         | Trigonometry                                            |       |
| or MATH 240S     | Trigonometry with Support                               | 3-4   |

**Total 23-24**

\*Course can be substituted with CIS 101 Introduction to Computers and Their Uses.

## ASSOCIATE IN ARTS (AA) General Studies – Arts & Humanities (M018463C)

This program provides an opportunity to earn an AA degree in a broad area of study and is intended for students who may not be planning to transfer to a 4-year university or who may need to explore possibilities before committing themselves to a major. This

program may serve students who have been out of school and need to review and assess their academic skills and interests before deciding on a definite major program. Students are required to complete the general education requirements along with a minimum of 18 units in one area of concentration. Students interested in achieving a General Studies AA Degree must complete the following:

1. Completion of general education requirements
2. Complete a minimum of 18 units in one area of concentration;
3. Complete a minimum of 60 total units (electives may be necessary to total the 60 required units).

Students planning to transfer to a 4-year university are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer; however, careful educational planning with a counselor can help to ensure that if students did decide at a later date to transfer to a 4-year university, students would have a solid beginning in the transfer planning process.

Please consult with a counselor for specific information regarding your possible intended major at the colleges/universities of choice.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Analyze cultural, literary, humanistic activities and artistic expression of humanity;
- Synthesize aesthetic responsiveness and construct value judgments through evaluating and interpreting the ways in which people in different cultures have responded to themselves and the world around them in artistic and cultural creation throughout the ages;
- Prepare for a possible career within the fields of Arts, Foreign Languages, Humanities, Film, Music, Philosophy, and Religious Studies.

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| ANTHRO 104                 | INTRDGN 103, 104                                    |
| ART 201                    | ITALIAN 001, 002                                    |
| ARTHIST 110, 120, 103, 170 | LING 001                                            |
| CHICANO 037, 052           | MULTIMD 100, 200, 620                               |
| CINEMA 003                 | MUSIC 101, 111, 141                                 |
| ENGLISH 102                | PHILOS 001, 33                                      |
| FRENCH 001, 002            | SPANISH 001, 002, 003, 004, 005, 006, 026, 035, 036 |
| HUMAN 001                  | THEATER 100, 200, 271                               |

NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.

## ASSOCIATE IN ARTS (AA) General Studies – Communication & Literature (M018464C)

These courses emphasize the content and form of communications to provide in-depth comprehension and understanding of the significance of communication. Students will be able to assess communication as the process of human symbolic interaction. Students will develop skills in the areas such as reasoning and advocacy, organization, analysis and critical evaluation, accuracy, reading and listening effectively to facilitate the decision-making process. The Communication and Literature Concentration allows students to take courses that will prepare them for possible careers

within the fields of English (including Creative Writing and Journalism), Communications and more. Coursework selected must be completed in at least two different disciplines.

This program provides an opportunity to earn an AA degree in a broad area of study and is intended for students who may not be planning to transfer to a 4-year university or who may need to explore possibilities before committing themselves to a major. This program may serve students who have been out of school and need to review and assess their academic skills and interests before deciding on a definite major program. Students are required to complete the general education requirements along with a minimum of 18 units in one area of concentration. Students interested in achieving a General Studies AA Degree must complete the following:

1. Completion of general education requirements
2. Complete a minimum of 18 units in one area of concentration;
3. Complete a minimum of 60 total units (electives may be necessary to total the 60 required units).

Students planning to transfer to a 4-year university are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer; however, careful educational planning with a counselor can help to ensure that if students did decide at a later date to transfer to a 4-year university, students would have a solid beginning in the transfer planning process.

Please consult with a counselor for specific information regarding your possible intended major at the colleges/universities of choice.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Analyze the content, form and significance of types of communication;
- Assess communication as the process of human symbolic interaction;
- Demonstrate skills in the areas such as reasoning and advocacy, organization, analysis and critical evaluation, accuracy, reading and listening effectively to facilitate the decision-making process;
- Prepare them for a possible career within the fields of English Communications, including Creative Writing and Journalism.

COMM 101, 121, 151                      MATH 227, 227S, 227A + 227B  
ENGLISH 101, 102, 127, 208              PHILOS 005, 006  
JOURNAL 100

Any Foreign Language at level II or higher (max 5 units in same language) listed on the IGETC or CSU-GE advising form.

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### ASSOCIATE IN ARTS (AA) General Studies – Social & Behavioral Sciences (M018466C)

This program provides an opportunity to earn an AA degree in a broad area of study and is intended for students who may not be planning to transfer to a 4-year university or who may need to explore possibilities before committing themselves to a major. This program may serve students who have been out of school and need to review and assess their academic skills and interests before deciding on a definite major program. Students are required to

complete the general education requirements along with a minimum of 18 units in one area of concentration. Students interested in achieving a General Studies AA Degree must complete the following:

1. Completion of general education requirements
2. Complete a minimum of 18 units in one area of concentration;
3. Complete a minimum of 60 total units (electives may be necessary to total the 60 required units).

Students planning to transfer to a 4-year university are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer; however, careful educational planning with a counselor can help to ensure that if students did decide at a later date to transfer to a 4-year university, students would have a solid beginning in the transfer planning process.

Please consult with a counselor for specific information regarding your possible intended major at the colleges/universities of choice.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Students will define and demonstrate knowledge of theories or research methodologies typically found in Social and Behavioral sciences.
- Students will demonstrate evidence of college level writing skills necessary for a possible career in the fields of Anthropology, Chicano Studies, Geography, History, Political Science, Psychology and Sociology.

|                           |                                     |
|---------------------------|-------------------------------------|
| ADM JUS 001               | GEOG 001, 002, 007                  |
| AFRO AM 002, 004          | HISTORY 001, 002, 011, 012, 086     |
| ANTHRO 101, 102, 104, 121 | LAW 001                             |
| BIOLOGY 003               | LING 001                            |
| CHICANO 002, 007, 008     | MATH 227, 227S, or MATH 227A + 227B |
| CH DEV 001                | POL SCI 001                         |
| ECON 001, 002             | PSYCH 001, 002, 013                 |
| FAM & CS 031              | SOC 001, 002, 004, 011, 028         |

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### ASSOCIATE IN ARTS (AA) General Studies – Natural Sciences (M018465C)

This program provides an opportunity to earn an AA degree in a broad area of study and is intended for students who may not be planning to transfer to a 4-year university or who may need to explore possibilities before committing themselves to a major. This program may serve students who have been out of school and need to review and assess their academic skills and interests before deciding on a definite major program. Students are required to complete the general education requirements along with a minimum of 18 units in one area of concentration. Students interested in achieving a General Studies AA Degree must complete the following:

1. Completion of general education requirements
2. Complete a minimum of 18 units in one area of concentration;
3. Complete a minimum of 60 total units (electives may be necessary to total the 60 required units).

Students planning to transfer to a 4-year university are cautioned that this curriculum may not provide for completion of the lower division requirements for transfer; however, careful educational planning with a counselor can help to ensure that if students did decide at a later date to transfer to a 4-year university, students would have a solid beginning in the transfer planning process.

Please consult with a counselor for specific information regarding your possible intended major at the colleges/universities of choice.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Apply the scientific method and employ critical thinking to address questions in a field of the natural sciences.
- Apply ethical reasoning to controversial issues in the natural sciences.

|                         |                     |
|-------------------------|---------------------|
| ANATOMY 001             | MICRO 020           |
| ANTHRO 101              | OCEANO 001          |
| ASTRON 001, 005         | PHYS SC 001, 014    |
| BIOLOGY 003, 006, 007   | PHYSICS 006, 007    |
| CHEM 051, 065, 101, 102 | PHYSIOL 001         |
| ENV SCI 002             | PSYCH 001, 002, 041 |
| GEOG 001, 007, 015      | SOC 001             |
| GEOLOGY 001             |                     |

*NOTE: A minimum of 60 units and a cumulative GPA of 2.0 or higher must be completed to earn the Associate Degree. Major courses must each be completed with a grade of C or better. Always consult a counselor for information on program and graduation requirements, residency requirements and transfer information.*

### ASSOCIATE IN SCIENCE (AS) – Health Science (M008338C)

This curriculum provides an orientation to the health sciences while including the general background required for the allied health fields and family environmental sciences.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Explain two or more disease processes and their biological foundations;
- Demonstrate proper application of basic laboratory methods such as using a microscope, taking a blood pressure and plating bacteria using aseptic technique;
- Read and analyze current literature from simple biomedical journals.

| REQUIRED COURSES                       |                                  | UNITS    |
|----------------------------------------|----------------------------------|----------|
| ANATOMY 001                            | Introduction to Human Anatomy    | 4        |
| BIOLOGY 003                            | Introduction to Biology          | 4        |
| or BIOLOGY 005                         | Introduction to Human Biology    |          |
| CHEM 051                               | Fundamentals of Chemistry I      | 4-5      |
| or CHEM 065                            | Introductory General Chemistry   |          |
| MATH 227*                              | Statistics                       | 4        |
| PHYSIOL 001                            | Introduction to Human Physiology | 4        |
| PSYCH 001                              | General Psychology I             | 3        |
| or SOC 001                             | Introduction to Sociology        |          |
| <b>Select one (1) Required Course:</b> |                                  | <b>4</b> |
| MICRO 020                              | General Microbiology             |          |

PHYSICS 006      General Physics I

**Select one (1) Elective course:**

NUTRTN 021      Nutrition  
PHYSICS 007      General Physics II

3-4

### CERTIFICATE OF COMPETENCY Non-Traditional Leadership for Community Enhancement (M041607F)

Non-traditional leadership is a social change metaphor intended to draw attention to individuals whose leadership skills emerge from cultural, social, and political conditions that shape their community. Non-traditional leaders are the unsung stakeholders who are distinguished by their intuitive knowledge of how to get things done, their influence with others, their ability to cultivate new relationships, and their refusal to give up on their community. They are community connectors working below the grassroots; driven by enormous hearts and gifts to bring people together to actualize a community enhancement vision.

This certificate program provides a series of foundational courses for building the capacity of these unique leaders to navigate the nonprofit world successfully. Through critical analysis, simulations, disciplined reflection and practical application, participants will gain: knowledge of cross-sector issues; how decisions are made, and the skills to break down and communicate complex problems in order to promote collaborative community change that enhances the quality of life for residents.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Increase their capacity to engage in decision making processes that sustain shared interest action campaigns for community enhancement.

| REQUIRED COURSES |                                                      | HOURS                  |
|------------------|------------------------------------------------------|------------------------|
| VOC ED 800CE     | Pathways to Careers in the Nonprofit Sector          | 9                      |
| VOC ED 801CE     | Non-Traditional Leadership                           | 54                     |
| VOC ED 802CE     | Democracy In Action                                  | 18                     |
| VOC ED 803CE     | Community Organizing for Civic Engagement            | 54                     |
| VOC ED 804CE     | Tools for Deliberative Dialogue                      | 54                     |
| VOC ED 805CE     | Framing Compelling Messages & Social Media Campaigns | 36                     |
| VOC ED 806CE     | Program Design & Evaluation                          | 36                     |
| VOC ED 807CE     | Fundraising Basics                                   | 18                     |
|                  |                                                      | <b>Total Hours 279</b> |

### CERTIFICATE OF COMPETENCY Introduction to CSIT (M038612F)

An introduction to CSIT Certificate of Competency that allows students to study, play and visualize what is Computer Science and Information Technology. Expands the student's vision and allows them to view the full spectrum of emerging careers in Computer Science and Information Technology. Provides basic understanding of programming, social media, web applications, and/or robots.

**Program Learning Outcomes** – Upon completion, students will be able to:

- To have an overview of computers and provide an environment for hands-on labs to learn basics of programming, basics of social media or basics of a simple robot.

- To generate interest in pursue these high-pay and high-demand jobs themselves or encourage others in their community to learn these skills.
- To stimulate critical thinking and allow them to view the digital world as tools for entertainment or solve personal, social or business problems.

| REQUIRED COURSES                        |                                                           | HOURS                 |
|-----------------------------------------|-----------------------------------------------------------|-----------------------|
| VOC ED 281CE                            | Exploring Computer Science Information Technology Careers | 18                    |
| VOC ED 286CE                            | Everyone Can Code                                         | 18                    |
| <b>ELECTIVE: Select one (1) course:</b> |                                                           | <b>18</b>             |
| VOC ED 294CE                            | Introduction to Social Media - Wordpress Blogs            |                       |
| VOC ED 292CE                            | Robotics Lab I                                            |                       |
|                                         |                                                           | <b>Total Hours 54</b> |

## NEW PROGRAMS

### CERTIFICATE OF ACHIEVEMENT

#### Medical Office Administrative Assistant (M042628D)

This certificate is designed to prepare students to perform entry-level administrative tasks in the offices of healthcare practitioners or other healthcare facilities. The tasks include communications with patients for case histories, scheduling appointments, updating and maintaining records, and familiarity with customer billing and electronic health records.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Demonstrate proficiency in performing medical office administrative duties, such as, communications with patients, schedule appointments, and manage electronic health records.
- Apply medical language and legal guidelines as they relate to healthcare situations.

| REQUIRED CORE |                                                                                       | UNITS                 |
|---------------|---------------------------------------------------------------------------------------|-----------------------|
| HLTHOCC 062   | Skill Set for the Healthcare Professional                                             | 2                     |
| BIOLOGY 033   | Medical Terminology                                                                   | 3                     |
| HLTHOCC 064   | Cultural and Legal Topics for Healthcare Professionals                                | 1                     |
| HLTHOCC 065   | Fundamentals For the Health Care Professional                                         | 2.5                   |
| ALD HTH 100   | Job Application Skills for Healthcare                                                 | 1                     |
| ALD HTH 021   | American Heart Association (AHA) Basic Life Support (BLS) for the Healthcare Provider | 0.5                   |
| HTHTEK 100    | Introduction to Health Information Technology                                         | 3                     |
| HTHTEK 103    | Introduction to Basic Coding Lecture/Lab                                              | 3                     |
|               |                                                                                       | <b>TOTAL UNITS 16</b> |

### CERTIFICATE OF COMPETENCY

#### Academic Readiness (M041446F)

The Academic Readiness Certificate of Competency helps students refresh their foundational skills in reading, writing and math to be ready for college-level courses. Learning these foundational skills also assists students wishing to prepare for the GED exam, which is the equivalent of a high school diploma. Students wishing to take the official GED exam may do so at LAMC's licensed testing center.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Students will demonstrate their readiness to transition into college-level courses by successfully achieving passing scores in either CASAS ABE Level E (245 -250), or the Test of Basic Education (TABE) Level A.
- Through GED Ready practice exams, students desiring the GED will demonstrate their readiness to successfully complete the 4 components of the GED exam with passing scores.

| REQUIRED CORE              |                                              | HOURS     |
|----------------------------|----------------------------------------------|-----------|
| BSICKSL 083CE              | GED/HISET Preparation: Literature & the Arts | 54        |
| BSICKSL 084CE              | GED/HISET Preparation: Math                  | 54        |
| BSICKSL 085CE              | GED/HISET Preparation: Science               | 54        |
| BSICKSL 086CE              | GED/HISET Preparation: Social Studies        | 54        |
| <b>ELECTIVE CATEGORY 1</b> |                                              | <b>18</b> |
| BSICKSL 126CE              | Foundations: Reading Skillshop               |           |
| BSICKSL 127CE              | Foundations: Writing Skillshop               |           |
| BSICKSL 128CE              | Foundations: Math Skillshop                  |           |
| BSICKSL 027CE              | Foundations: Study Skills                    |           |
| <b>ELECTIVE CATEGORY 2</b> |                                              | <b>54</b> |
| BSICKSL 200CE              | Math Skills I (Level E)                      |           |
| BSICKSL 201CE              | Math Skills II (Level M)                     |           |
| BSICKSL 202CE              | Math Skills III (Level D)                    |           |
| BSICKSL 204CE              | Writing Skills I (Level E)                   |           |
| BSICKSL 205CE              | Writing Skills II (Level M)                  |           |

|               |                              |                        |
|---------------|------------------------------|------------------------|
| BSICKSL 206CE | Writing Skills III (Level D) |                        |
| BSICKSL 208CE | Reading Skills I (Level E)   |                        |
| BSICKSL 209CE | Reading Skills II (Level M)  |                        |
| BSICKSL 210CE | Reading Skills III (Level D) |                        |
|               |                              | <b>TOTAL HOURS 288</b> |

**CERTIFICATE OF COMPETENCY****Academic Readiness, Bilingual GED (M041447F)**

The Academic Readiness, Bilingual GED Preparation Certificate of Competency prepares adult speakers of other languages for the General Education Development (GED) exam which is the equivalent of a high school diploma. This certificate supports English Language Learners wishing to take the GED Exam in Spanish. Completing the GED exam provides a pathway to access higher education and financial aid resources, as well as increased job opportunities and greater earning potential. During the program, students gain knowledge related to the four elements of the exam (Language Arts, Math, Science, & Social Studies), study skills, test-taking strategies, and hands-on computer practice testing. Upon successful completion of the program, students can take the official GED exam and LAMC's licensed testing center.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Through pre- and post- practice exams, students will demonstrate learning gains that determine their readiness to successfully complete the 4 components of the GED exam with passing scores.

| <b>REQUIRED CORE</b> |                                                       | <b>HOURS</b> |
|----------------------|-------------------------------------------------------|--------------|
| BSICKSL 129CE        | Bilingual GED Preparation: Literature & Language Arts | 54           |
| BSICKSL 130CE        | Bilingual GED Preparation: Social Studies             | 54           |
| BSICKSL 131CE        | Bilingual GED Preparation: Math                       | 54           |
| BSICKSL 132CE        | Bilingual GED Preparation: Science                    | 54           |

**TOTAL HOURS 216****CERTIFICATE OF COMPETENCY****Beginning Level ESL (M042633F)**

This certificate helps non-English speaking students develop basic reading, writing, listening, speaking, and pronunciation skills to communicate in familiar situations they encounter at work, school, and in the community. Upon successful completion of the program, students will be prepared to maximize job opportunities as well as community and civic participation and be ready to transition to vocational training and college-level course work. This certificate includes 4 courses and is appropriate for students with scores between 181-190 on the CASAS Appraisal Exam.

**Program Learning Outcomes** – Upon completion, students will be able to:

- process, understand, interpret, and engage with beginning-level visual content, informational written text, and oral presentations to construct meaning.
- produce beginning-level written and spoken text and responses such that it meaningfully transmits meaning.
- apply techniques that will increase their speaking fluency, thereby making speech more intelligible and comprehensible.

| <b>REQUIRED CORE</b> |                                     | <b>HOURS</b>           |
|----------------------|-------------------------------------|------------------------|
| ESL NC 121CE         | Beginning ESL - Part A              | 90                     |
| ESL NC 122CE         | Beginning ESL - Part B              | 90                     |
| ESL NC 048CE         | Pronunciation I: Producing Sounds   | 18                     |
| ESL NC 049CE         | Pronunciation II: Improving Fluency | 36                     |
|                      |                                     | <b>TOTAL HOURS 234</b> |

**CERTIFICATE OF COMPETENCY****Foundational ESL and Computer Skills (M042632F)**

This certificate provides the first building blocks for learning the English language and developing computer literacy. Non-English-speaking students develop foundational literacy skills in English, including reading, writing, listening, and speaking skills. Students will also develop basic computer skills that will help complement their English language learning. Upon successful completion of the program, students will be prepared to maximize job opportunities as well as community and civic participation and be ready to transition to vocational training and college-level course work. This certificate includes 3 courses and is appropriate for students with scores of 180 and below on the CASAS Appraisal Exam.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Process, understand, and engage with level-appropriate visual content, short written text, and oral presentations to construct meaning.
- Produce level-appropriate simple written and spoken responses such that it transmits meaning.
- Use their computers and/or smartphones to practice and improve their English language skills through educational multimedia, Canvas, and Office 365.

| <b>REQUIRED CORE</b> |                                   | <b>HOURS</b> |
|----------------------|-----------------------------------|--------------|
| ESL NC 120CE         | Pre-Beginning/Foundational ESL    | 90           |
| ESL NC 048CE         | Pronunciation I: Producing Sounds | 18           |
| BSICKSL 025CE        | Basic Skills in Computers         | 54           |

**TOTAL HOURS 162****CERTIFICATE OF COMPETENCY****High-Beginning Level ESL (M042634F)**

This certificate helps non-English speaking students develop reading, writing, listening, and speaking skills to communicate in familiar situations they encounter at work, school, and in the community. Upon successful completion of the program, students will be prepared to maximize job opportunities as well as community and civic participation and be ready to transition to vocational training and college-level course work. This certificate includes 3 courses and is appropriate for students with scores between 191-200 on the CASAS Appraisal Exam.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Process, understand, interpret, and engage with high-beginning level literary and informational written text and oral presentations to construct meaning.
- Produce high-beginning level written and spoken text and responses such that it clearly and meaningfully transmits meaning.

- Use techniques that will increase their speaking fluency and conversational skills.

| REQUIRED CORE |                             | HOURS                  |
|---------------|-----------------------------|------------------------|
| ESL NC 123CE  | High-Beginning ESL - Part A | 90                     |
| ESL NC 124CE  | High-Beginning ESL - Part B | 90                     |
| ESL NC 050CE  | Beginning Conversation      | 54                     |
|               |                             | <b>TOTAL HOURS 234</b> |

## SKILL CERTIFICATE

### Engineering Technician Prep (M095300J)

This certificate introduces students to computer aided drafting and SolidWorks modeling. The courses introduce students to skill sets required for 2-D and 3-D computer aided design. This certificate will serve as a stepping stone for other engineering career technical education programs.

**Program Learning Outcomes** – Upon completion, students will be able to:

- Create a 2-D or 3-D drawing using a computer aided software.
- Construct an assembly part using various features of SolidWorks 3-D Software.

| REQUIRED CORE |                                           | UNITS                |
|---------------|-------------------------------------------|----------------------|
| EGD TEK 101   | Engineering Graphics                      | 3                    |
| EGD TEK 111   | 2-D Computer-Aided Design                 | 3                    |
| EGD TEK 121   | 3-D Computer-Aided Design with SolidWorks | 2                    |
|               |                                           | <b>TOTAL UNITS 8</b> |

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## OTHER UPDATES

### THE COURSES LISTED BELOW ARE ELIGIBLE FOR CREDIT BY EXAM

Please consult with a counselor or the Transfer Center to determine the best plan to meet your educational goals:

- ADM JUS 001, 002, 003, 005, 006, 014, 104, 160
- BIOTECH 002
- CAOT 076, 078
- CIS 101, 148, 222
- CS 101, 102
- CLN ART 050, 060
- HEALTH 011
- MATH 125, 240, 240S
- MULTIMD 100, 240, 340, 610