

CUYAMACA COLLEGE

2016-2017 CATALOG
- ADDENDUM -





C U Y A M A C A
• C O L L E G E •

Addendum to the 2016-2017 Catalog

Corrections and Additions occurring after publication
of the Catalog (August 1, 2016)

December 6, 2016

Page: 3

Comments:

Revised Administrators*

CUYAMACA COLLEGE ADMINISTRATION

Julianna Barnes, Ed.D.	President
Sahar Abushaban	Vice President, Administrative Services
Patrick Setzer*	Interim Vice President, Instruction
Scott W. Thayer, Ed.D.	Vice President, Student Services
Brianna Hays#	Senior Dean, Institutional Effectiveness, Success & Equity
Nicole Jones	Interim Dean, Counseling Services
Kerry Kilber Rebman	Dean, Learning & Technology Resources
Jim Custeau*	Interim Dean, Career & Technical Education (Automotive Technology, Business and Professional Studies, Child Development, CADD Technology & Surveying, CIS & Graphic Design, Environmental Health & Safety Management, Ornamental Horticulture, Water and Wastewater Technology)
Connie Elder*	Inerim Dean, Math, Science & Engineering (Exercise Science/Health Education, Mathematical Sciences, Science/Engineering)
Peter Utgaard*	Acting Dean, Arts, Humanities & Social Sciences (Art, American Sign Language, Communication, English, English as a Second Language, History, Social and Behavioral Sciences, Humanities, Philosophy and Religious Studies, Performing Arts, World Languages)
Lauren Vaknin, Ed.D.	Associate Dean, Student Affairs
Ryan Shumaker	Associate Dean, Athletics
Jesús Miranda#	Associate Dean, Student Equity & Engagement
Vacant	Assistant Dean, EOPS
Sheryl Ashley	Interim Director, Admissions & Records
Bruce Farnham	Director, Campus Facilities, Operations & Maintenance
Ray Reyes	Director, Financial Aid
Michael Gilchrist	Manager, Campus Bookstore

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Comments:

Added Paralegal to General Education exceptions*

GENERAL EDUCATION

Students earning the Associate in Science or the Associate in Arts degree have three general education patterns from which to choose.

Plan A: Completion of Cuyamaca College General Education Requirements; see below.

Plan B: Completion of Intersegmental General Education Transfer Curriculum for California State University (IGETC-CSU) or for the University of California (IGETC-UC); see page 44.

Plan C: Completion of California State University General Education (CSU GE); see page 46.

Exceptions are University Studies degrees, which require completion of Plan B or C, General Studies degrees, which require completion of Plan A, Associate Degrees for Transfer (ADT), which have clearly defined general education requirements listed for each, and Paralegal, which have GE requirements clearly defined on page 84.* Students are encouraged to meet with a counselor for assistance in selecting the most appropriate general education pattern for their educational goal.

Page: 49

Comments:

Added C-ID NUMBERS:

C-ID numbers approved:

<i>Cuyamaca Course</i>	<i>C-ID</i>
PHYC 200.....	PHYS 210*
PHYC 210.....	PHYS 215*

Page: 53**Comments:**

ARABIC STUDIES Associate in Arts Degree and Certificate of Achievement are pending ACCJC approval.#

ARABIC STUDIES **#(pending ACCJC approval)**

The Associate in Arts in Arabic Studies is designed to provide a greater understanding of Arabic language, history, culture and heritage, with particular emphasis on reading, writing and speaking the Arabic language. The Arabic Studies degree prepares students for career opportunities that require competency in the Arabic language. Through specific coursework for this degree, students will have a deeper appreciation and understanding of Arabic heritage and civilization.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Communicate in the Arabic language at the intermediate level in a variety of settings.
- Acquire an understanding of Arabic civilization and heritage.
- Gain sensitivity, globalism and cultural competence.

Associate in Arts Degree Requirements:

Course	Title	Units
ARBC 120	Arabic I	5
ARBC 121	Arabic II	5
ARBC 145	Arabic Civilizations	3
ARBC 220	Arabic III	5
ARBC 221	Arabic IV	5
ARBC 250	Conversational Arabic I	3
ARBC 251	Conversational Arabic II	3
Total Required		29
Plus General Education Requirements		

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Arabic Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Page: 54**Comments:**

Added: (formerly ART-GRAPHIC DESIGN)*

III. ART AND DESIGN (formerly ART-GRAPHIC DESIGN)**Page: 56****Comments:**

(effective Spring 2017) Added AUTO 141 and 142*

Moved AUTO 127, 140 and 170*

Deleted AUTO 121*

AUTOMOTIVE TECHNOLOGY

The automotive technology curriculum provides for entry level skills in the automotive field. The program is designed to impart in-depth technical skills as required in today's highly technical automotive field. It prepares students for employment in the automotive and/or transportation trades. For those currently employed, upgrading and specialization skills will be stressed. The major emphasizes practical experience in actual repairs under simulated shop conditions. The program offers two introductory courses that are recommended for all students: AUTO 99 Introduction to Automotive Technology is a lecture class that can be taken face-to-face or fully online. AUTO 100 is a laboratory class that demonstrates how to perform basic services. Students must select one of these courses before taking AUTO 120.

I. AUTOMOTIVE TECHNOLOGY**Associate in Science Degree Requirements**

Course	Title	Units
AUTO 120	Engine Performance I - Mechanical and Ignition Systems	5
AUTO 122	Automotive Electrical Systems	5
AUTO 123	Engine Performance II - Fuel Systems Emission Systems	5
AUTO 127*	Advanced Automotive Electrical Systems	5
AUTO 130	Automotive Brakes and Brake License	5
AUTO 180	Automotive Service Advisor	1
AUTO 182	Automotive Work Experience	3
		29

Select two of the following:

AUTO 124	Engine Performance III - Drivability	5
AUTO 129	Introduction to Hybrid, Electric and Alternative Fueled Vehicles	5
AUTO 140*	Four-Wheel Alignment	5
AUTO 152	Drive Train Systems	4
AUTO 160	Air Conditioning and Heating Systems	3
		7-10

Select one of the following:

AUTO 135	Advanced Brakes	5
AUTO 141*	Emission Control License Fundamentals	
	Level I Inspector Training	3
AUTO 142*	Emission License Procedures Level II Inspector Training	2
AUTO 145	Advanced Four-Wheel Alignment	5
AUTO 155	Advanced Drive Train Systems	4
AUTO 165	Advanced Air Conditioning and Heating Systems	3
AUTO 170*	Engine Overhaul	5
AUTO 175	Advanced Engine Overhaul	5
AUTO 176	Engine Machining	5
		2-5
Total Required		38-44
Plus General Education Requirements		

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

*Please read the course recommended preparation for AUTO 141 and 142. Most students should take both classes.

II. AUTOMOTIVE TECHNOLOGY-ADVANCED ENGINE PERFORMANCE AND EMISSIONS**Certificate Requirements:**

Course	Title	Units
AUTO 120	Engine Performance I - Mechanical and Ignition Systems	5
AUTO 122	Automotive Electrical Systems	5
AUTO 123	Engine Performance II - Fuel Systems Emission Systems	5
AUTO 124	Engine Performance III - Drivability	5
AUTO 141*	Emission Control License Fundamentals	
	Level I Inspector Training	3
AUTO 142*	Emission License Procedures Level II Inspector Training	2
Total Required		25

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Automotive Technology-Advanced Engine Performance and Emissions. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

III. AUTOMOTIVE TECHNOLOGY-ASEP**Associate in Science Degree Requirements:**

Course	Title	Units
AUTO 141*	Emission Control License Fundamentals	
	Level I Inspector Training	3
AUTO 142*	Emission License Procedures Level II Inspector Training	2
AUTO 200	ASEP-Orientation	1
AUTO 201	ASEP-Electrical	6
AUTO 202	ASEP-Brakes and Alignment	7
AUTO 203	ASEP-Engine Repair	4.5
AUTO 204	ASEP-Power Train	7
AUTO 205	ASEP-Engine Performance and Air Conditioning	7
AUTO 206#	ASEP-Work Experience	15
Total Required		52.5
Plus General Education Requirements		

#Must be taken five times for a total of 15 units.

IV. AUTOMOTIVE TECHNOLOGY-ASSET**Associate in Science Degree Requirements:**

Course	Title	Units
AUTO 141*	Emission Control License Fundamentals	
	Level I Inspector Training	3
AUTO 142*	Emission License Procedures Level II Inspector Training	2
AUTO 190	ASSET-Orientation, PDI and Lubrication	2
AUTO 191	ASSET-Brakes and Alignment	7
AUTO 192	ASSET-Drive Train	8
AUTO 193	ASSET-Engine Repair	4.5
AUTO 195	ASSET-Electronic Engine Controls	7
AUTO 196	ASSET-Electrical, Accessories and Air Conditioning	5
AUTO 197#	ASSET-Work Experience	13
Total Required		51.5
Plus General Education Requirements		

#Must be taken five times for a total of 13 units.

Page: 70**Comments:**

MECHATRONICS Certificate of Achievement is pending ACCJC approval.#

VII. MECHATRONICS **#(pending ACCJC approval)**

This certificate is designed for students interested in designing automatic electromechanical devices and systems. The curriculum is intended primarily for students interested in working in advanced manufacturing. It also provides the foundation for further studies in electrical and mechanical engineering.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

- Write computer programs in high-level languages such as C++ and, when appropriate, in assembly language to control the operation of a microcontroller. In particular, students will be able to apply the following microcontroller capabilities: memory-mapped I/O (input/output), analog-to-digital (A/D) conversion, and volatile and non-volatile memory.
- Design automatic devices and control systems which can respond to inputs from sensors with appropriate outputs in the form of motion, light, and sound.
- Design mechanical components and devices, and create prototype versions of them.
- Combine the above capabilities to design integrated electro-mechanical devices of arbitrary complexity.

Certificate Requirements:

Course	Title	Units
ENGR 100	Introduction to Engineering and Design	4
ENGR 125	3D Solid Modeling	3
or		
ENGR 129	Engineering Solid Modeling	3
ENGR 175	Mechatronics: Introduction to Microcontrollers and Robotics	3
ENGR 176	Mechatronics: Prototype Design	3
ENGR 182	Work Experience in Engineering Technology	1-3
ET 110	Introduction to Basic Electronics	4
Total Required		18-20

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Mechatronics. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Page: 77**Comments:**

KUMEYAAY STUDIES Associate in Arts Degree and Certificate of Achievement are pending ACCJC approval.#

KUMEYAAY STUDIES **#(pending ACCJC approval)**

The Associate in Arts program in Kumeyaay Studies is designed to provide an understanding of Kumeyaay history, culture and heritage. It is a multi-disciplinary degree, drawing from the sciences, humanities, world languages and history departments. Through specific coursework that encompasses on-site learning experiences, students will learn about the Kumeyaay Nation of San Diego's East County region.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Communicate in the Kumeyaay language at a basic level in a variety of settings;
- Acquire an understanding of Kumeyaay heritage, history, society and traditions;
- Gain sensitivity, globalism and cultural competence of a unique group of people.

Associate in Arts Degree Requirements:

Course	Title	Units
BIO 133	Ethnoecology	3
or		
BIO 134	Ethnobotany	3
BIO 135	Ethnobotany/Ethnoecology Lab	1
HIST 132	Kumeyaay History I: Precontact - 1900	3
HIST 133	Kumeyaay History II: 1900 - Present	3
HUM 116	Kumeyaay Arts and Culture	3
NAKY 120	Kumeyaay I	4
NAKY 121	Kumeyaay II	4
		21

List A, Select One:

Course not taken above (BIO 133 or BIO 134)	3
NAKY 220 Kumeyaay III	4
	3-4
Total Required	24-25
Plus General Education Requirements	

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement in Kumeyaay Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Page: 83**Comments:**

Text added to Paralegal Studies description: Please note: Paralegals may not provide legal services directly to the public, except as permitted by law. This program does not prepare students for law school or the practice of law.#

PARALEGAL STUDIES

The legal profession has evolved, like the medical profession, into a profession of specialties. Based on this development, lawyers need qualified assistants to better help them provide legal services to their clients. Paralegals are trained, professional technicians able to provide this needed legal assistance.

This degree program is specifically designed to prepare and provide students with the analytical skills and written abilities necessary to assist attorneys in the practice of law. The technical curriculum goals and objectives emphasize three primary areas:

1. Legal Research, Analysis and Writing
2. Ethics and the Mechanics of Law
3. Integration of Substantive and Procedural Law

The successful paralegal degree candidate will possess a broad educational background with an opportunity to gain specialized skills in specific areas of law. The large curriculum offering also allows practicing paralegals to attend college refresher or new skills development courses.

#Please note: Paralegals may not provide legal services directly to the public, except as permitted by law. This program does not prepare students for law school or the practice of law.

Pages: 96-135

Comments:

New courses approved as UC Transferable:

ARBC 122	Arabic for the Native Speaker I	5
ARBC 123	Arabic for the Native Speaker II	5
ART 241	Illustration I	3
ART 242	Illustration II	3
BIO 135	Ethnobotany/Ethnoecology Lab	1
BIO 152	Paramedical Microbiology	5
[†] CADD 126	Electronic Drafting	3
[†] CADD 127	Survey Drafting Technology	3
[†] CADD 128	Dimensioning and Tolerancing	3
[†] CADD 131	Architectural Computer-Aided Drafting and Design	3
[†] CADD 132	Advanced Computer-Aided Drafting and Design in 3D Modeling	3
[†] CADD 133	Advanced Architectural Computer-Aided Drafting and Design	3
[†] Any or all of these courses and ENGR 119, 129, OH 200, 201 combined: maximum credit, one course		
CD 145	Child Abuse and Family Violence in our Society	3
OH 121	Plant Propagation	3
OH 175	Advanced Landscape Design	3
OH 180	Plant Materials: Annuals and Perennials	3
^{††} OH 200	Introduction to Computer-Aided Landscape Design	3
	Same as: CADD 200	
^{††} OH 201	Advanced Computer-Aided Landscape Design	3
	Same as: CADD 201	
^{††} 200, 201, all CADD courses and ENGR 119, 129 combined: maximum credit, one course		
OH 260	Arboriculture	3

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Comments:

Added ARBC 122 and 123*

ARABIC 122 - ARABIC FOR THE NATIVE SPEAKER I* 5 UNITS

5 hours lecture
Fundamentals of spoken and written Arabic for the bilingual speaker. This course is designed to help Arabic-speaking students further improve their oral and written communication skills. Emphasis on writing, reading comprehension, and vocabulary building at the intermediate level in a cultural context. Exposure to the diversity within the cultures of the Arabic-speaking world. This course is designed to provide the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic. The course will be taught in Arabic.

CSU, UC

ARABIC 123 - ARABIC FOR THE NATIVE SPEAKER II* 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 122 or equivalent

5 hours lecture
This course is designed to help Arabic-speaking students further improve their oral and written communication skills. In addition, it provides the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic.

CSU, UC

Page: 97

Comments:

Added C-ID number to ART 146*

ART 146 – ASIAN ART 3 UNITS
C-ID ARTH 130*

Page: 99

Comments:

(effective Spring 2017) Added AUTO 141 and 142*

AUTOMOTIVE TECHNOLOGY 141 – EMISSION CONTROL LICENSE FUNDAMENTALS LEVEL I INSPECTOR TRAINING* 3 UNITS

Recommended Preparation: AUTO 120, AUTO 122, AUTO 123, AUTO 124

2 hours lecture, 3 hours laboratory

Theory of operation and inspection of emission control devices with strong emphasis on federal and state laws and regulations required for licensing and testing of vehicles. This course demonstrates the most current testing devices used for inspection procedures, and is approved by the State of California Bureau of Automotive Repair (BAR). This course is designed to prepare a student to take the BAR Inspector Only (I.O.) licensing examination. Experienced candidates may skip Level I training if they possess: ASE A6, A8, and L1 certification; or an AA/AS degree or Certificate in Automotive Technology and have 1 year experience; or have 2 years of experience and have completed BAR specified diagnostic and repair training, AUTO 123 Engine Performance II Vehicle Emissions Systems.

AUTOMOTIVE TECHNOLOGY 142 – EMISSION LICENSE PROCEDURES LEVEL II INSPECTOR TRAINING* 2 UNITS

Recommended Preparation: AUTO 120, 122, 123, 124, 127, 141. Completion of all California Bureau of Automotive Repair web based training modules.

1 hour lecture, 3 hours laboratory

The Smog Check Procedures training must be completed by all Inspector candidates. This training provides students the procedural knowledge skills and abilities to perform emission inspections. Students who complete this training will have met the State of California Bureau of Automotive Repair training requirements to qualify to take the Smog Inspector state licensing examination. To pass level II training students must pass a series of hands on assessments and pass a written examination. This course is designed for experienced students who possess ASE A6, A8, and L1 certification; or possess an AA/AS degree or Certificate(s) in automotive technology and have 1 year experience; or have 2 years of experience and have completed BAR specified diagnostic and repair training Engine Performance AT 123.

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Comments:

(effective Spring 2017) Change in units, hours, and Prerequisite.*

ENGLISH 020 – SUPPORT FOR FRESHMAN COMPOSITION 1 UNIT*

Prerequisite: "C" grade or higher or "Pass" in ENGL 098 or ESL 119 or ESL 120 or equivalent or assessment.*

1 hour lecture*

This course is designed to review and reinforce the skills necessary to be successful in English 120 (freshman composition). Students will study the elements and principles of composition through the practice of editing and revising narrative, expository, and argumentative essays. Student will also be introduced to effective reading skills and strategies necessary for the reading of college level material. **Pass/No Pass only. Non-degree applicable.**

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Comments:

(effective Spring 2017) Changes in units, hours, and course descriptions. Changed from PASS/NO PASS only to graded courses.*

EXERCISE SCIENCE 010 – CARDIOVASCULAR FITNESS AND NUTRITION 1 UNIT*

3 hours laboratory*

Kinesiology Lab course designed to teach the benefits of cardiovascular exercise, heart-healthy nutrition guidelines, and to provide opportunities for students to analyze their eating habits. This course requires workouts and consultations with the instructor, as well as written and computer assignments. Each student will be assessed in the areas of fitness and diet. *Due to health and safety considerations, only one Kinesiology Lab class (ES 010, 011, 012) may be taken per semester.**

EXERCISE SCIENCE 011 – CIRCUIT TRAINING 1 UNIT*

3 hours laboratory*

Kinesiology Lab course designed to develop and encourage positive attitudes and habits with regard to exercise. Each student will be assessed in the areas of body composition, cardiovascular efficiency, muscular strength and endurance, and flexibility. An individual fitness profile will then be established. From this profile, an individual fitness prescription will be developed. Fitness activity will primarily utilize exercise equipment organized into a super circuit. *Due to health and safety considerations, only one Kinesiology Lab class (ES 010, 011, 012) may be taken per semester.**

EXERCISE SCIENCE 012 – INDIVIDUALIZED SPORTS CONDITIONING 1 UNIT*

3 hours laboratory*

Kinesiology Lab course designed to provide advanced exercisers with the opportunity to increase their fitness levels with an emphasis on strength training and muscle flexibility. An individualized fitness program will then be prescribed utilizing the student's personal fitness goals. *Due to health and safety considerations, only one Kinesiology Lab class (ES 010, 011, 012) may be taken per semester.**

Page: 129

Comments:

Changed course description.*

INTERDISCIPLINARY STUDIES – 198 SUPERVISED TUTORING 0 UNIT

TBA hours

This course uses a variety of educational tools to assist students with various learning needs. The course may be used to strengthen prerequisite skills prior to enrolling in a specific course, or to receive supplemental assistance while enrolled in another course. This course may be taken with different content. **No fee/no credit/noncredit course.***