CUYAMACA
· COLLEGE ·

Addendum
to the
2013-2014 Catalog

Additions to the Catalog:

ART 148 – INTRODUCTION TO CRAFTS   3 UNITS
2 hours lecture, 4 hours laboratory
Introduction to traditional and contemporary concepts and processes in a variety of craft media with emphasis on design principles in the development of aesthetic forms based on function.
AA/AS GE (Area C), CSU

BIOLOGY 133 – ETHNOECOLOGY   3 UNITS
3 hours lecture
Ethnoecology is the study of the dynamic relationship between people, biota and their environment. This course will focus on the ecological and cultural basis of indigenous land management; particular attention will be paid to the environmental stewardship of the Kumeyaay/Diegueño people of Southern California and Northern Baja California. Ecological principles will be used to assess the impacts of Native American land management practices and the vital role this knowledge plays in recent conservation initiatives. Local field trips and restoration projects in Cuyamaca College's nature preserve will provide opportunities for working directly with natural habitats.
AA/AS GE (Area B), CSU, UC

COMMUNICATION 238 –
SPEECH AND DEBATE COMPETITION I   1 UNIT
1 hour lecture, 1 hour laboratory
This is the introductory course to intercollegiate forensics: Cuyamaca's Speech and Debate Team. It is designed to give students preparation procedures for competitive speech/debate tournaments. Students will learn the requirements for the four major areas of competitive speaking: public address, oral interpretation, impromptu/extemporaneous speaking, and debate. Students will be required to participate or observe at one tournament or public speaking activity.
CSU

COMMUNICATION 239 –
SPEECH AND DEBATE COMPETITION II   2 UNITS
2 hours lecture, 1 hour laboratory
This course is designed for students who wish to participate in intercollegiate speech and debate tournaments through the Cuyamaca Speech and Debate Team. Students will develop speech performance skills by selecting areas of emphasis which include public speaking, oral interpretation or debate events.

Competition in at least one tournament or public speaking activity is required.
CSU

COMMUNICATION 241 –
SPEECH AND DEBATE COMPETITION IV   3 UNITS
2 hours lecture, 3 hours laboratory
This course is designed for students who have competed in intercollegiate forensics tournaments and want to focus on one or more specific areas of emphasis as a member of the Cuyamaca Speech and Debate Team. Team leadership skills, debate theory, research analyzing political and social issues, directing and writing of readers theatre, and coaching skills, may be selected as possible focus areas. Competition at three or more tournaments or public speaking activities is required.
CSU

EXERCISE SCIENCE 248 – CONDITIONING
FOR INTERCOLLEGIATE ATHLETES   1 UNIT
Prerequisite: Recommendation of Intercollegiate Coach
1 hour lecture, 1 hour laboratory
Physical conditioning and mastery of the basic fundamentals of movement and skills necessary to reduce the risk of injury associated with athletic activity. Conditioning activities, games, and resistance exercises will be emphasized. This course is intended for intercollegiate athletes who are proficient in the fundamental skills and have knowledge of the basic rules of the competitive sport. Instruction is geared toward advanced techniques, strategies, injury prevention, conditioning, and team play.
CSU

EXERCISE SCIENCE 249 – COMPETENCIES
FOR INTERCOLLEGIATE ATHLETES   2 UNITS
Prerequisite: Recommendation of Intercollegiate Coach
5 hours lecture, 5 hours laboratory
This course is designed to prepare student athletes for intercollegiate competition at both the two and four year level, and to maintain athletic conditioning between seasons. It is intended for students who have demonstrated the potential (through performance or interview with respective coach) to succeed in intercollegiate athletics. Students will be required to participate in lab hours within the intercollegiate sport of their choice. *Athletic insurance fee may be required upon enrollment.*
CSU

BUSINESS ADMINISTRATION FOR TRANSFER (AS–T)

This program 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. This major aligns with the California State University (CSU) Bachelor of Science in Business Administration.

The following is required for the AS-T in Business Administration for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern or the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Outcomes

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

- Recognize entrepreneurial opportunities for new business ventures, evaluate potential for business success, and consider implementation issues including financial, legal, operational and administrative procedures involved in starting new business ventures.
- Communicate effectively and professionally in business situations through physical or virtual presence, writing, speaking, listening, and electronic media.
- Work effectively, respectfully, ethically, and professionally with people of diverse ethnic, cultural, gender and other backgrounds, and people with different organizational roles, social affiliations and personalities.
- Lead by using team building skills and facilitating collaborative behaviors in the accomplishment of group goals and objectives.
- Assess how organizations create value in their global supply chains through the integrated production and distribution of goods, services and information.
- Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.

Associate in Science Degree Requirements:

Core Curriculum:

Course	Title	Units
BUS 120	Financial Accounting	4
BUS 121	Managerial Accounting	4
BUS 125	Business Law: Legal Environment of Business	3
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
		17

List A: Select one of the following:

Course	Title	Units
MATH 160	Elementary Statistics	4
MATH 178	Calculus for Business, Social and Behavioral Sciences	4
		4

List B: Select two of the following

Course	Title	Units
BUS 128	Business Communication	3
CIS 110	Principles of Information Systems	4
Any course from List A not selected above*		4
		7-8

	Units
Total Units for Major (9 units may be double-counted with GE)	28-29
Total Units for CSU GE Breadth or IGETC-CSU	37-39
Total Transferable Elective Units	1
Total Units for Degree	60

*Students are strongly encouraged to complete both Math 160 and Math 178

COMPUTER AND INFORMATION SCIENCE

NETWORKING, SECURITY AND SYSTEM ADMINISTRATION

This degree program prepares students for careers in computer networking or system administration and related fields. Upon completion, students may find entry level positions as computer support technicians, junior network administrators, junior system administrators, hardware technicians, data/voice/video cabling technicians, network project managers, designers/ estimators or technical support personnel. The major prepares students to work as team members in an information technology group which designs, evaluates, tests, installs and maintains corporate networks. Preparation for the following industry certifications: A+, Network+, Security+, Linux+, Microsoft Certified Technician (MCT) in Windows and Windows Server (active directory, network infrastructure and applications infrastructure), Linux Profession Institute Certification Level 2, Certified Wireless Network Administrator (CWNA) and/or CCNA (Cisco Certified Network Associate).

Program Outcomes

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

A. Enterprise Networking

- Describe and demonstrate the ability to install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and system software.

- Install, test, certify, secure, and troubleshoot copper, optical fiber, and wireless telecommunications infrastructures by constructing a system in accordance with industry standards.
- Configure, test, and troubleshoot network topologies consisting of routers, switches, wireless routers, VoIP equipment and PCs using: the Cisco IOS CLI; IP addressing; interior gateway protocols; HDLC, PPP and Frame-Relay WAN.

B. Enterprise System Administration
- Describe and demonstrate the ability to install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and system software.
- Install, test, certify, secure, and troubleshoot copper, optical fiber, and wireless telecommunications infrastructures by constructing a system in accordance with industry standards.
- Configure, test, and troubleshoot a Linux and a Windows server, including directory services, networking, print services, server security, remote access, DNS, DHCP, web server, file server, mail server, FTP server, file systems, partitions, logical volumes, server/network performance, and data backup and recovery.

Associate in Science Degree Requirements:

Core Curriculum:

Course	Title	Units
CIS 120	Computer Maintenance and A+ Certification	3
CIS 121	Network Cabling Systems	3
CIS 125	Network+ Certification	3
CIS 161	Fundamentals of Telecommunications	3
CS 119	Program Design and Development	3
CS 119L	Program Design and Development Lab	1
		16

Areas of Emphasis:

A. Enterprise Networking

CIS 190	Windows Operating System	3
or		
CIS 191	Linux Operating System	3
CIS 201	Cisco Networking Academy I	3
CIS 202	Cisco Networking Academy II	3
CIS 203	Cisco Networking Academy III	3
CIS 204	Cisco Networking Academy IV	3
CIS 209	Cisco Networking Academy IX	3
or		
CIS 263	Fundamentals of Network Security	3
CIS 261	Convergent/Unified Technologies and Degree Capstone	3
CIS 262	Wireless Networking	3
		24

Total Required Including Core Classes 40
Plus General Education Requirement

B. Enterprise System Administration

CIS 140	Databases	3
or		
CIS 162	Technical Diagramming Using Microsoft Visio	2
CIS 190	Windows Operating System	3
CIS 191	Linux Operating System	3
CIS 261	Convergent/Unified Technologies and Degree Capstone	3

CIS 263	Fundamentals of Network Security	3
CIS 290	Windows Server–Active Directory	2
CIS 291	Linux System Administration	3
CIS 293	Windows Server–Network Infrastructure	2
CIS 294	Windows Server–Applications Infrastructure	2
		23-24

Total Required Including Core Classes 39-40
Plus General Education Requirement

Certificate of Achievement
Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Networking, Security and System Administration in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate Degree for Transfer℠

ENGLISH FOR TRANSFER (AA–T)

The study of English gives lifelong pleasure 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, film and video work, politics, business and medicine.

The following is required for the AA-T in English for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

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

- Demonstrate the ability to express themselves effectively in largely error-free writing in multiple modes and genres.
- Demonstrate the ability to analyze a variety of texts including fiction and non-fiction.
- Utilize the writing process to approach, complete and refine writing projects.
- Demonstrate familiarity with major British, American, and world authors and literary movements.
- Locate, evaluate, and effectively integrate outside research into their writing to support their explicit theses while avoiding plagiarism and adhering to scholarly standards for citation of information.

Associate in Arts Degree Requirements:

Core Curriculum:

Course	Title	Units
ENGL 122	Introduction to Literature	3
ENGL 124	Advanced Composition: Critical Reasoning and Writing	3
		6

List A: Select two of the following:

Course	Title	Units
ENGL 221	British Literature I	3
ENGL 222	British Literature II	3
ENGL 231	American Literature I	3
ENGL 232	American Literature II	3
ENGL 270	World Literature I	3
ENGL 271	World Literature II	3
		6

List B: Select one of the following:

Course	Title	Units
ENGL 126	Creative Writing	3
ENGL 202	Introduction to Film as Literature	3
ENGL 217	Fantasy and Science Fiction	3
Any course from List A not selected above		3
		3

List C: Select one of the following:

Course	Title	Units
ARAM 120	Aramaic I	5
ARAM 121	Aramaic II	5
ARAM 220	Aramaic III	5
ARBC 120	Arabic I	5
ARBC 121	Arabic II	5
ARBC 220	Arabic III	5
ARBC 221	Arabic IV	5
ASL 120	American Sign Language I	4
ASL 121	American Sign Language II	4
ASL 220	American Sign Language III	4
ASL 221	American Sign Language IV	4
BUS 128	Business Communication	3
ENGL 201	Introduction to Images of Women in Literature	3
ENGL 207	Romantic Fiction	3
ENGL 214	Masterpieces of Drama	3
ENGL 275	Literary Period	3
ENGL 276	Major Author	3
ENGL 277	Literary Theme	3
FREN 120	French I	5
FREN 121	French II	5
FREN 220	French III	5
FREN 221	French IV	5
HUM 110	Principles of the Humanities	3
ITAL 120	Italian I	5
ITAL 121	Italian II	5
ITAL 220	Italian III	5
SPAN 120	Spanish I	5
SPAN 121	Spanish II	5
SPAN 220	Spanish III	5
SPAN 221	Spanish IV	5
THTR 110	Introduction to Theatre	3
Any course from Lists A or B not selected above		3
		3-5

	Units
Total Units for Major (6 units may be double counted with GE)	18-20
Total Units for CSU GE Breadth or IGETC-CSU	37-39
Total Transferable Elective Units	10-17
Total Units for Degree	60

HISTORY FOR TRANSFER (AA–T)

This degree program is useful for students preparing for careers in teaching, the law, government service, and research. Completion of the degree represents fulfillment of the department mission to instill an understanding of and reverence for the past so students better appreciate their own place in the global society. Through a wide range of course offerings, the department establishes a detailed knowledge of the variety of human experiences across time. The department emphasizes reading, writing, oral presentation, primary source analysis, and research techniques to build critical thinking and life-long learning skills that benefit students in their collegiate, professional, and personal lives.

The following is required for the AA-T in History for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Outcomes

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

- Recognize theories of historical interpretation.
- Describe historical and philosophical underpinnings of government systems and ideologies.
- Demonstrate how literature and the arts help us understand the past.
- Define historical periods and transitions.
- Distinguish between primary and secondary sources.

Associate in Arts Degree Requirements

Core Curriculum:

Course	Title	Units
HIST 108	Early American History	3
HIST 109	Modern American History	3
		6

List A: Select six units:

Course	Title	Units
HIST 100	Early World History	3
or		
HIST 105	Early Western Civilization	3
HIST 101	Modern World History	3
or		
HIST 106	Modern Western Civilization	3
		6

List B: Select one course from each group:
Group 1: Select one of the following diversity courses:
ARBC 145
HIST 118, 119, 130, 131, 132, 133, 180, 181, or HIST 100
or 101 if not selected above
MUS 116
RELG 120, 130
SPAN 141, 145
Or a world language course that fulfills
CSU GE Area C2   3-5

Group 2: Select one course related to history:
ANTH 120
ART 100, 140, 141, 143, 144, 145
ENGL 122, 201, 202, 207, 214, 221, 222, 231, 232
HIST 122, 123, 124, or any history course not selected
above
HUM 110, 120, 140, 155
MUS 110, 111, 114, 115, 117
PHIL 160, 170
POSC 120, 121, 124, 130, 140
RELG 210, 215
THTR 110   3
                                                                      6-8

Total Units for Major (18 units may be double-counted with GE)	18-20
Total Units for CSU GE Breadth or IGETC CSU	37-39
Total Transferable Elective Units	3-5
Total Units for Degree	60

MATHEMATICS FOR TRANSFER (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for the AS-T in Mathematics for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.

5. Certified completion of the California State University General Education Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

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

- Apply mathematical reasoning and problem solving strategies to analyze, interpret, and model applications from degree and transfer-level courses and programs in math, science, engineering, business, and technology.
- Select and apply appropriate definitions, postulates, and theorems to prove mathematical statements.

Associate in Science Degree Requirements:

Core Curriculum:

Course	Title	Units
MATH 180	Analytic Geometry and Calculus I	5
MATH 280	Analytic Geometry and Calculus II	4
MATH 281	Multivariable Calculus	4
		13

List A: Select one of the following:

MATH 284	Linear Algebra	3
MATH 285	Differential Equations	3
		3

List B: Select one of the following:

CS 181	Intro to C++ Programing	4
MATH 160	Elementary Statistics	4
MATH 245	Discrete Mathematics	3
PHYC 190	Mechanics and Heat	5
Any course from List A not selected above		3
		3-5

Total Units for Major (3-6 units may be double-counted with GE)	19-21
Total Units for CSU GE Breadth or IGETC-CSU	31-33
Total Transferable Elective Units	3-5
Total Units for Degree	60

POLITICAL SCIENCE FOR TRANSFER (AA-T)

The AA-T in Political Science for Transfer is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a Bachelor of Arts degree in Political Science. Students who earn the AA-T in Political Science will know about various forms of governments and governmental institutions, political parties, current public affairs, interest groups and international politics. They will understand the role of the citizen and the democratic process, and have knowledge of the history and evolution of various forms of government. Future careers include those in government service, public administration, international organizations or corporations, law, or teaching.

The following is required for the AA-T in Political Science for Transfer degree:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Outcomes

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

*   Discuss major theories and concepts of political science.
*   Analyze political issues and formulate solutions.
*   Participate knowledgeably as a U.S. citizen in civic-oriented environments.
*   Demonstrate an understanding of U.S. and world politics.
*   Comprehend enduring political thoughts and ideas throughout history.

Associate in Arts Degree Requirements:

Core Curriculum:

Course	Title	Units
POSC 121	Introduction to U.S. Government and Politics	3

List A: Select three of the following:

POSC 120	Introduction to Politics and Political Analysis	3
POSC 124	Introduction to Comparative Government and Politics	3
POSC 130	Introduction to International Relations	3
MATH 160	Elementary Statistics	4
or		
PSY 215	Statistics for the Behavioral Sciences	3
		9-10

List B: Select two of the following:

HIST 108	Early American History*	3
HIST 109	Modern American History*	3
Any course from List A not selected above		3-4
		6-7
	Total Units for Major (9-12 units may be double-counted with GE)	18-19
	Total Units for CSU GE Breadth or IGETC-CSU	37-39
	Total Transferable Elective Units	2-5
	Total Units for Degree	60

*One course, HIST 108 or 109, meets CSU American Ideals requirement, along with Core of POSC 121.

STUDIO ARTS FOR TRANSFER (AA–T)

The AA-T in Studio Arts is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a B.A. degree in an area such as Fine Arts or Studio Arts. Students who earn this degree will have the techniques necessary to create a variety of two- and three-dimensional art projects while demonstrating an increased aesthetic awareness. They will have the ability to use visual media to generate ideas, solve visual problems, enhance perception, think and respond critically to visual information in their lives, identify and describe the historical and cultural contexts of artwork, and assess the role of the visual arts in culture as a vehicle of human expression.

The following is required for the AA-T in Studio Arts for Transfer degree:

1. Minimum of 60 or 90 quarter CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major as detailed below.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Outcomes

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

*   Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art, objects in nature, events, and the environment.
*   Apply artistic processes and skills using a variety of media to communicate meaning and intent in original works of art.
*   Analyze the role and development of the visual arts in past and present cultures throughout the world, noting human diversity as it relates to the visual arts and the artists.
*   Analyze and derive meaning from works of art, including their own, according to the elements of art, the principles of design, and aesthetic qualities.
*   Apply what they have learned in the visual arts across subject areas by developing competencies and creative skills in problem solving, communication, management of time, and identifying resources that contribute to lifelong learning, career skills, and careers in and related to the visual arts.

Associate in Arts Degree Requirements:

Core Curriculum:

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

List A: Select one of the following:

Course	Title	Units
ART 140	History of Western Art I: Prehistoric to 1250 A.D.	3
ART 143	Modern Art	3
ART 144	Architecture of the 20th Century	3
ART 145	Contemporary Art History: 1945-Present	3
		3

List B: Select three of the following:

Course	Title	Units
ART 121	Painting I	3
ART 125	Drawing II	3
ART 135	Watercolor I	3
ART 148	Introduction to Crafts	3
ART 230	Figure Drawing I	3
GD 110	Graphic Design Principles	3
		9
	Total Units for Major (6 units may be double counted with GE)	24
	Total Units for CSU GE Breadth or IGETC-CSU	37-39
	Total Transferable Elective Units	3-5
	Total Units for Degree	60