

# Norco College

## 2021-2022 Catalog Addendum



This addendum to the 2021-2022 Norco College Catalog contains changes that offer new educational opportunities for students or informational corrections. These updates were approved after the 2021-2022 Catalog was published.

Although every effort has been made to ensure accuracy of the information, students and others who use the catalog and addendum should consult with a counselor, dean, department chair or program director for any additions, deletion or changes.

2001 Third Street  
Norco, California 92860-2600  
(951) 372-7000  
[www.norcocollege.edu](http://www.norcocollege.edu)

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# INFORMATIONAL CORRECTIONS

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## Assessment and Placement

(July 2021 Addendum)

New language was edited after the catalog production deadline. See correction below:

**Page 6:**

### Assessment and Placement

RCCD uses multiple measure assessment criteria to assist students in determining appropriate placement for entering courses in English, ESL, and mathematics courses. Assessment criteria may use past performance measures like overall high school GPA, individual course-taking performance, and course-taking patterns to determine appropriate placement in English, mathematics courses. First-time college students are automatically placed into English and mathematics based upon information they supply on the admissions application. English as a Second Language (ESL) uses the Guided Self-Placement Tool to assess which ESL or English class is best. New students and returning students who feel they would benefit from ESL language instruction will need to complete the placement tool found at <https://extendedlearning.rccd.edu/esl/Pages/selfPlacement.aspx>

Students with English placement recommendations that include a support class with the transfer level course may petition to take the course without support. Students seeking this option must complete an English Placement Challenge found at <https://www.norcollege.edu/schools/arts/Pages/english.aspx>. Petitions take from one to five working days to process.

### Guided Self Placement

(July 2021 Addendum)

The title for this section was listed incorrectly. The corrected information is below.

Page 6:

### Guided Self Placement

Per AB 705, students have the right to complete our locally developed process for self-placement in English, math, and English as a Second Language (ESL).

- For English guided self placement, students who do not place into ENG-1A directly may visit <https://www.norcollege.edu/schools/arts/Pages/english.aspx> to fill out the English 91 Challenge/Opt-Out Form.
- For math guided self placement, students must visit with a counselor to discuss appropriate placement. In certain circumstances, some students will be referred to the math department chair for further assistance in self-placement.
- For English as a Second Language (ESL) guided self placement, students who feel they would benefit from English language instruction may visit <https://extendedlearning.rccd.edu/esl/Pages/selfPlacement.aspx> to take the ESL GSP.

## **Course Corrections**

**ADJ-200**, Course title listed incorrectly. Should be Administration of Justice Work Experience. Also, removal of language (e.g. Performance tryout or audition) from course outline. See correction below.

(July 2021 Addendum)

### **ADJ-200**

**Administration of Justice Work Experience**     **1-4 Units**

CSU

Advisory: Students should have paid or voluntary employment.

**ART-6** Course listed as (Formerly ART-6) in catalog when this is a cross-listed course. The correction should be listed as (Same as AHS-6)

(July 2021 Addendum)

**ART-6H** Course listed as (Formerly ART-6H) in catalog when this is a cross-listed course. The correction should be listed as (Same as AHS-6H)

(July 2021 Addendum)

**ART-6 and ART-6H was omitted from the 2021/2022 catalog in error.**

(July 2021 Addendum)

### **ART-6**

**Art Appreciation**

**3 Units**

UC, CSU

Prerequisite: None

Advisory: ENG-1A

Description: An introductory course for the non-art major. The creative process and the diversity of style, technique and media, evident in various art forms throughout history and culture. Students may not receive credit for both ART-6 and ART-6H. 54 hours lecture. (Same as AHS-6) (Letter Grade, or Pass/No Pass option.)

### **ART-6H**

**Honors Art Appreciation**

**3 Units**

UC, CSU

Prerequisite: None

Advisory: ENG-1A

Limitation on enrollment: Enrollment in the Honors Program

Description: An introductory course designed for the non-art major. The creative process and the diversity of styles, technique and media evident in various art forms throughout history and culture. Honors course offers an enriched experience for accelerated students through limited class size; seminar format; focus on primary texts; and application of higher level critical thinking skills. Students may not receive credit for both ART-6 and ART-6H. 54 hours lecture. (Same as AHS-6H) (Letter Grade, or Pass/No Pass option.)

**AHS-6****Art Appreciation****3 Units**

UC, CSU

Listed as (Formerly ART-6) in catalog when this is a cross-listed course. The correction should be listed as (Same as ART-6)  
(July 2021 Addendum)

**AHS-6H****Art Appreciation****3 Units**

UC, CSU

Listed as (Formerly ART-6H) in catalog when this is a cross-listed course. The correction should be listed as (Same as ART-6H)  
(July 2021 Addendum)

**AHS-8****Art History of the Photographic Image****3 Units**

UC, CSU

Course description says "formerly ART-8" but should say "formerly ART-91".  
(July 2021 Addendum)

**AHS-11****Visual Description: Writing About Art****3 Units**

UC, CSU

Course description says "formerly ART-11" but should say "formerly ART-92".  
(July 2021 Addendum)

**ETS-14** was approved in the June 2021 Board of Trustees and missed the catalog production cut-off date.

(July 2021 Addendum)

**ETS-14****African American History I****3 Units**

UC, CSU

Prerequisite: None

Description: A survey of the experience of Americans of African descent in America from the 1600s to 1865. The course begins with the history of African civilizations on the coast of West Africa, moves through the rise of slavery in the Americas, the origins and developments of American ideas about race, and the formation of African American culture(s) and identities. It then culminates with emancipation at the end of the Civil War. Although the history of African Americans is one of struggle and almost constant adversity, it is also one of strength and perseverance. In spite of the challenges, African Americans lived, loved, formed enduring communities, and created a unique culture. Since their involuntary arrival on the shores of North America during the early seventeenth century, Africans and their descendants confronted adversity by means of individual and collective action in numerous ways. The course explores these dimensions of the African American experience, and in so doing, highlights the multifaceted ways African Americans have made their own history while simultaneously shaping and contributing to the history of the United States. (Same as HIS-14) 54 hours lecture.

**KIN-A64C**

The title for this course is incorrect in the catalog. The corrected information is below.  
(July 2021 Addendum)

**KIN-A64C****Soccer, Advanced****1 Unit**

UC, CSU

Prerequisite: KIN-A64B

Description: Offensive and defensive team strategies will be developed along with an increase in individual soccer skills. Emphasis is placed on team strategies, lifetime fitness and perfecting skill techniques. KIN-A64A, A64B, and A64C are courses related in content and are limited in enrollment according to Title 5, section 55040. For further information see section VIII regarding course repetition. 54 hours laboratory. (Letter grade only).

**MAN-77**

The title for this course is incorrect in the catalog. The corrected information is below.  
(July 2021 Addendum)

**MAN-77****Electrical Theory for Electricians****3 Units**

(Same as ELC/ ELE-77)

Prerequisite: None

Description: An introduction to electrical theory, Ohm's Law, magnetism, electromagnetism, voltage, resistance, current, inductance, capacitance, reactance, impedance, Watts, Volt-Amps, VARs, current control devices, sensors and actuators phase angle, power-factor, transformers, motors, power distribution systems, and proper usage of electrical test equipment (meters). Student will learn concepts of electrical power, energy, Kirchoff's Laws, along with basic math to solve fundamental electrical problems for both alternating current (A.C.) and direct current (D.C.) circuits. Student will learn basic electrical safety procedures, including the proper use and requirements for personal protective equipment (PPE). 36 hours lecture, 54 hours lab. (Letter Grade or Pass/No Pass option.)

**SJS-110****Introduction to Social Justice Studies**

(July 2021 Addendum)

Was approved in the June 2021 Board of Trustees and missed the catalog production cut-off date. Added (C-ID: SJS 110), plus UC and CSU designation to course description.

**SJS-110****3 Units**

Introduction to Social Justice Studies

(C-ID: SJS 110)

UC, CSU

Prerequisite: None

Advisory: ENG-1A

Description: An intersectional examination of marginalized identities, including dimensions of race, ethnicity, gender, sexuality, and class in narrative and theoretical texts. Focus is on contemporary socioeconomic, cultural, and political issues in the US in comparative and historical context. Written and oral analysis of critical theories and practices for resistance, transformation, and liberation. 54 hours lecture. (Letter grade or Pass/No Pass)

**UC Transferable Courses Effective Fall 2021.**

(July 2021 Addendum)

The following courses are newly designated as UC transferable effective Fall 2021:

AHS-4	Introduction to Visual Culture
AHS-8	Art History of the Photographic Image
AHS-11	Visual Description: Writing About Art
ALR-4	Critical Reading as Critical Thinking
ETS/ENG-18	Survey of Native American Literature
ETS/POL-21	Latinx Politics
ETS/POL-23	Race, Ethnicity, and Politics in America
ETS/ENG-24	Survey of Asian American Literature
ETS/ENG-25	Latinx Literature of the United States
KIN-A64B	Soccer, Intermediate
KIN-A64C	Soccer, Advanced
PHI-34	Philosophical Survey of Sex, Gender, and Sexuality
POL-20	Latin American Politics
POL-22	Politics of the Middle East
PSY-10	Personal and Social Adjustment
PSY-35H	Honors Abnormal Psychology
SJS-110	Introduction to Social Justice Studies

## Program Corrections

### Page 103: Architectural Graphics program. NAS983/NAS983B/ NAS983C/NCE983

The additional courses changed from 9 units to 6 units. NAS983C was listed twice and not NAS983B. Removal of language at the top of the program that no longer applies: “The following certificate may lead to employment competency, but does not lead to an Associate of Science Degree”. See correction below.  
(July 2021 Addendum)

### **Architectural Graphics**

The Architectural Graphics program prepares students with technical communication skills, and the knowledge and craft of two-dimensional drafting solutions for architecturally related industry applications. Students learn to present graphic solutions, provide design refinements, modifications, and delineations of working technical drawings using current Computer-Aided Drafting CAD methods and techniques with an understanding of industry standards. Program completers are able to secure drafting technician positions in areas related to architecture, environmental design, and to assist in the development of architectural construction documents for light frame structures, under the supervision of a professional.

### **Certificate Program**

#### **Program Learning Outcomes**

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

- Complete a set of residential working drawings, which may include first floor drawings, second floor drawings, foundation drawings, elevations, cross-sections, framing, electrical drawings, and structural detail.
- Demonstrate an ability to apply and integrate computer technology into the design process to achieve a desired result.

<u>Required Courses</u>	<u>21 Units</u>	<u>Units</u>
DFT/ENE-21	Drafting	3
DFT/ELE/ENE-27	Technical Communications	3
CON-62	Print Reading for Construction	3
ARE/DFT-24	Revit I-Architectural Drafting	3
ARE-25	Revit II-Advanced Architectural Drafting	3
DFT/ENE-30	Computer Aided Drafting	3
ARE-37	Architectural Design	3

Plus, an additional 6 units from the following elective courses:

ARE-35	History of Architecture-Beginnings through Gothic	3
ARE-36	History of Architecture: Renaissance to Modern	3
CON-60	Introduction to Construction	3
CON-74	Construction Estimating	3

**Total Program Units: 27 units**

**Page: 106 Management Concentration - A.S. Degree and Certificate:** Elective course MAG-46 was not removed in the catalog update. See correction below.  
(July 2021 Addendum)

**Management Concentration - A.S. Degree and Certificate  
NAS521/NAS521B/NAS521C/NCE521**

This program generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization with an emphasis on people as the most important asset of a business. This program will prepare individuals seeking management positions to be better candidates for promotion, and those already in management positions to improve their management skills and effectiveness. This includes instruction in management practice and theory, human resources management and behavior, interpersonal communications in a business setting, marketing management, and business decision making.

**Certificate Program**

**Program Learning Outcomes**

In addition to outcomes for the Businesses Administration certificate, on successful completion of the Management concentration, students should be able to:

- Apply sound management practices.
- Analyze and apply appropriate managerial practices in one or more areas of ethics, human resources, quality management, operations, motivation, etc.

**Business Administration Major Core Requirements 18 Units**

<u>Required for this concentration</u>		<u>Units</u>
MAG-44	Principles of Management	3
and		
<u>Select another 9 units from the following:</u>		
MAG/BUS-47	Applied Business and Management Ethics	3
MAG-53	Human Relations	3
MAG-56	Human Resources Management	3
MAG-60	Introduction to Hospitality Management	3
MAG-200	Management Work Experience	1-2-3-4
BUS-48	International Management	3

**Total Program Units: 18 Units**



**Page: 108 Business Information Worker - A.S. Degree and Certificate:** NAS522B and NAS522C program of study codes are missing from the NCE522/NAS522 Business Information Worker program in the catalog. The B and C codes are indicated on the chart on page 94 of the 21/22 catalog and also in degree audit. See correction below.  
(November 2021 Addendum)

## **BUSINESS INFORMATION WORKER (NR) NAS522/NAS522B/NAS522C/NCE522**

The Business Information Worker Certificate of Achievement is designed to prepare students for entry-level and administrative support in a variety of fields and businesses.

### **Certificate Program**

#### **Program Learning Outcomes**

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

- Demonstrate computer literacy with respect to computer hardware and software applications.
- Apply standard rules of business conduct and customer service.
- Develop specialized keyboarding skills at an employable level of accuracy and speed.
- Use word processing, spreadsheet, presentation graphics, and scheduling software to perform business and office tasks.
- Apply oral and written communication skills in various business and office environments.
- Design, modify, query, and manipulate lists (database and information in workbooks) using common formulas, data and what if scenario tools to organize and convey information.

<b>Required Courses (19 units)</b>	<b>Units</b>
CAT-1A Business Etiquette	1
CAT/CIS-3 Computer Applications for Business	3
CAT-31 Business Communication Fundamentals	3
CAT-51 Intermediate Typewriting/Document Formatting	3
CAT/CIS-90 Microsoft Outlook	3
CAT 93 Computers for Beginners	3
CAT/CIS-98A Introduction to Excel	1.5
CAT/CIS-98B Advanced Excel	1.5

**Total Program Units: 19 Units**

### **Associate in Science Degree**

The Associate in Science Degree in Business Information Worker will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog

**Page: 111 Drafting Technology - A.S. Degree and Certificate:** Elective course CON-62 was listing the wrong name in the catalog for this program. See correction below.  
(July 2021 Addendum)

### **Drafting Technology NAS539/NAS539B/NAS539C/NCE539**

This program prepares individuals to apply technical skills and advanced computer software and hardware to the creation of graphic representations and simulation in support of drafting and engineering design problems typical of industry. This includes instruction in engineering graphics, computer-aided drafting (CAD), two-dimensional and engineering graphics. Students completing this certificate will be qualified for an entry level drafting or design position

#### **Certificate Program**

##### **Program Learning Outcomes**

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

- An ability to apply and integrate computer technology in the design process, exhibiting skills necessary for entry level employment, as a designer in the drafting industry.
- Knowledge of engineering drawing skills and practice in the solution of industry related design projects.

##### **Program Learning Outcomes**

In addition to achieving the program learning outcomes for the drafting technology certificate program, students who complete the Associate of Science Degree in Drafting Technology will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

<u>Required Courses (14-15 units)</u>		<u>Units</u>
DFT/ENE-21	Drafting	3
DFT/ELE/ENE-27	Technical Communications	3
DFT/ENE-30	Computer Aided Drafting	3
DFT/ENE-51	Blueprint Reading	2
OR		
CON-62	Print Reading for Construction	3
ENE-41	Engineering Graphics	3

##### Plus, an additional 6-8 units from the following elective courses:

DFT/ENE-60	Math for Engineering Technology	3
OR		
MAT-36	Trigonometry	4
CON-60	Introduction to Construction	3
ARE-37	Architectural Design	3
DFT/ENE-42	SolidWorks I	3
MAN-56	CNC Machine Set-up and Operation	4

**Total Program Units: 20 -23 Units**

**Page: 115 Sound and Communication Systems Installer Apprenticeship - A.S. Degree and Certificate:** NAS644B and NAS644C program of study codes are missing from the NAS644/NCE644 Sound and Communication Systems Installer Apprenticeship program in the catalog. The B and C codes are indicated on the chart on page 97 of the 21/22 catalog and also in degree audit. See correction below.  
(November 2021 Addendum)

**Sound and Communication Systems Installer Apprenticeship NAS644/ NAS644B/ NAS644C NCE644**

The new 37 unit Sound & Communication Systems Installer Apprenticeship certificate and AS degree will create a three-year apprenticeship program with the International Brotherhood of Electrical Workers (IBEW). Norco College will become the Lead Education Agency for the program.

The goal of the Sound & Communication Systems Installer Apprenticeship Program at Norco College is to provide electrical apprentices with the up-to-date knowledge and technical skills to complete the California state requirements to begin a career as a licensed journeyman, a craftsperson recognized for his or her knowledge and ability in the selected trade. The program will allow students to work in the trade while taking courses. The students will be earning a wage while on the job. As they progress through the apprenticeship they will increase their skill set.

- Analysis a circuit of electrical device(s) with the appropriate meters or testing equipment so that troubleshooting of common system faults can be detected and repair.
- Demonstrate electrical wiring of circuits or devices to meet the standards and requirement of the NEC
- Residents within Riverside/San Bernardino/ Mono/Inyo counties will be able to jointly apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committees via the International Brotherhood of Electrical Workers. Applicants must submit proof of high school diploma or GED, be at least 18 years of age, and official unopened transcripts showing successful completion of one year of high school or College Algebra 1 or higher. The applicant will then complete a written aptitude test and oral interview to be placed on the eligibility list.

<b><u>Required Major Total: (37 units)</u></b>	<b><u>Units</u></b>
ELE-420 Intro to Sound/Communication	3.5
ELE-421 Electrical Theory and Practices DC	3.5
ELE-422 Electrical Theory and Practices AC	3.5
ELE-423 Semiconductor Electronics	3.5
ELE-424 Intro to Digital Electronics and Signaling Devices	3.5
ELE-425 Management/Alarms/Codes/Circuits	3.5
ELE-499 Work Experience in Electricians Apprenticeship	1-4

**Page: 117 Entrepreneurial Foundations- Certificate:** Program listed 12 units and it should be 15 units for this program. See correction below.  
(July 2021 Addendum)

### **Entrepreneurial Foundations- Certificate: NCE978**

This certificate is designed for those interested in starting their own business exposing students to the basics of entrepreneurship, including design thinking, customer assessment, problem solving, financing and leveraging resources. It will utilize the Business Model Canvas technique designed to have students apply entrepreneurial strategies in developing a business.

#### **Certificate Program**

##### **Program Learning Objectives:**

- Student will be able to develop a comprehensive business plan outlining the viability and sustainability of their idea using appropriate resources and techniques.
- Student will be able to apply standard accounting practices in a business and able to recognize and evaluate finance opportunities.
- Student will be able to create a Business Model Canvas showcasing its main components and be able to produce and deliver a compelling presentation.

<u>Required Courses (15 units)</u>		<u>Units</u>
ENP-50	Introduction to Entrepreneurship	3
ENP-51	Entrepreneurship Basics	3
ENP-53	Money, Finance, and Accounting for Entrepreneurs	3
ENP-54	Business Model Canvas and Presentations for Entrepreneurs	3
ENP-55	Entrepreneurial Simulations - Capstone	3

**Total Program Units: 15 Units**

**Page 116: 3D Mechanical Drafting certificate program.** Correction that old program code is listed as NCE863 in the 21/22 catalog in error when it should be NCE995 as the degree was revised from local to state approved certificate, additional courses and added a degree program codes. NAS995/NAS995B/NAS995C. See correction below.  
(July 2021 Addendum)

**3D Mechanical Drafting (N) A.S. Degree and Certificate**  
**NAS995/NAS995B/NAS995C/ NCE995**

This certificate includes courses intended to help students qualify for an entry level CAD operator/drafter or help someone, already in industry, to update their skills. Students can expect an entry level position as a CAD operator, mechanical drafter, engineering assistant and engineering technician.

**Certificate Program**

**Program Learning Outcomes**

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

- Demonstrate an understanding of 3D mechanical modeling so as to be able to capture design intent in a 3D model.
- Map out the most efficient path in 3D model creation.
- Reverse engineer existing parts and recreate them as 3D computer models.

Required Courses	20 Units	Units
DFT/ENE-21	Drafting	3
DFT/ENE/ENE-27	Technical Communications	3
DFT/ENE-51	Blueprint Reading	2
DFT/ENE-42	SolidWorks I	3
DFT/ENE-30	Computer Aided Drafting	3
DFT/ENE-42B	SolidWorks II	3
ENE-52	Geometric Dimensioning & Tolerancing	3

Plus, an additional 3-5 units from the following elective courses:

MAT-36	Trigonometry	4
MAN-56	CNC Machine Set-Up and Operation	4
MAN-35	Computer Aided Manufacturing-Mastercam	5
ENE-41	Engineering Graphics	3

**Total Program Units: 23-25 units**

**Associate of Science Degree**

The Associate of Science Degree in 3D Mechanical Drafting will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**Page 117: Entrepreneurial Essentials (N) NCE977** Correction to units total for Required Courses. Listed 15, when it should be 12. See correction below.  
(July 2021 Addendum)

### **Entrepreneurial Essentials (N) NCE977**

This certificate is designed for those interested in starting their own business exposing students to the basics of entrepreneurship, including design thinking, customer assessment, problem solving, financing and leveraging resources.

#### **Certificate Program**

##### **Program Learning Objectives:**

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

- Student will be able to develop a business plan outlining the viability and sustainability of their idea.
- Student will be able to create a value proposition and test market assumptions for a business idea and offer a feasible solution.
- Student will be able to apply standard accounting practices in a business and able to recognize and evaluate finance opportunities.

<b><u>Required Courses (12 units )</u></b>	<b><u>Units</u></b>
ENP-50 Introduction to Entrepreneurship	3
ENP-51 Entrepreneurship Basics	3
ENP-52 Starting A Business with Limited Resources	3
ENP-53 Money, Finance, and Accounting for Entrepreneurs	3

**Elective Courses: 0 Units**

**Total Program Units: 12 Units**

**Page 123: Facility Maintenance NCE771/NAS771.** MAN-55 is listed at 2 units in NCE/NAS771 for a total of 24-25 units but it is a 1-unit course, so the new total is 23-24 units. Also list NAS771B/NAS771C under the program codes. See correction below.  
(July 2021 Addendum)

### **Facility Maintenance NCE771/ NAS771B/ NAS771C/ NAS771**

The Associate in Science in Facility Maintenance program prepares students for jobs such as entry-level facility maintenance technician, field service technician, industrial maintenance technician, maintenance mechanic, or maintenance repair mechanic.

Students will gain skills in: safety standards, technical math, blueprint reading, troubleshooting, preventative maintenance, drive components, lubrication, bearings, wiring methods, hydraulics, pneumatics, basic electricity, technical communication and more. Students will learn and apply maintenance methods to repair and maintain commercial or industrial facilities, including the machinery in buildings, plants, and factory settings.

### **Certificate Program**

#### **Program Learning Outcomes**

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

- Demonstrate knowledge of maintenance techniques.
- Apply maintenance fundamentals to simulated and actual workplace applications.
- Recognize, identify, and describe the functions of hand and power tools.
- Troubleshoot and repair a given, complex configuration of maintenance equipment and create a thorough report, including necessary interactions with tools and safety standards.

<b>Required Courses (23-24 units)</b>		<b>Units</b>
ELE/MAN-55	Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ELE/MAN-69	Fundamentals of Tooling and Test Equipment	2
ELE/MAN-68	Fundamentals of Maintenance	3
DFT/ELE/ENE-27	Technical Communications	3
DFT/ENE-51	Blueprint Reading	2
ELE/MAN-77	Electrical Theory	3
MAN-60	Hydraulic and Pneumatics Systems	3
ELE/CON-66	National Electrical Code	3
ENE-60	Math for Engineering Technology	3
or		
MAT-36	Trigonometry	4
None of the courses in the area of emphasis require a prerequisite course.		

**\*Total Major Units: 23-24 Units**

**\*General Education Requirements: 35-36 Units**

**Total A.S. Degree Units: 60 Units**

**Page: 124 Manufacturing Technician II A.S. Degree and Certificate:** Missing an elective course ENE-60 that was listed correctly with the state, but missed in the catalog update. See correction below.

(July 2021 Addendum)

**Manufacturing Technician II – A.S. Degree and Certificate  
(NAS967/NAS967B/NAS967C/NCE967)**

This program develops the fully qualified journey level Manufacturing Technician who has the ability to manufacture high precision parts out of a wide variety of materials using all types of conventional machine tools.

**Certificate Program**

**Program Learning Outcomes**

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

- Apply industry standard safety practices and specific safety requirements for different machining operations
- Produce high precision parts out of a variety of conventional machine tools
- Demonstrate advanced manufacturing technical practices and procedures that are applicable to all sectors of manufacturing.
- Demonstrate knowledge of CNC specific technical work practices, such as blueprint reading, applied math concepts, tools, and measurement concepts.

<u>Required Courses</u>		<u>Units</u>
APP 450	Apprenticeship Work Experience	16

Elective Courses

Choose 14-15 units from the following: Units

DFT/ENE 30	Computer Aided Drafting (CAD)	3
ENE 62	Math for Automated Systems	3
or		
ENE 60	Math for Engineering Technology	3
DFT/ENE 42	SolidWorks I	3
DFT/ENE 51	Blueprint Reading	2
MAN 35	Computer Aided Manufacturing	5
MAN 36	General Machine Shop and Theory of Machining	4
ELE/MAN 55	Occupational Safety and Health Administration (OSHA)Standards for General Industry	1
MAN 56	CNC Machine Set-up and Operation	4
MAN 57	CNC Program Writing	3

**Total Program Units: 30-31**



**Page: 125 Music Industry Studies: Audio Production Associate of Science and Certificate:** Course excluded COM-9 (3 units) from the degree and certificate in the catalog in error. The corrected information is below.  
(November 2021 Addendum)

**MUSIC INDUSTRY STUDIES: AUDIO PRODUCTION (N) NAS684/ NAS684B/ NAS684C/ NCE684**

The Music Industry Studies certificate in Audio Production is designed to provide students with the knowledge and skills necessary for producing popular music, and engineering in the recording studio as well as for live sound. Courses allow students to become proficient on a DAW (Digital Audio Workstation); gain experience recording and producing music on digital and analog devices; and record and mix in a state-of-the-art multi-track digital recording studio. Classes are taught utilizing industry-standard software and equipment in state-of-the-art facilities. The program prepares students for a wide variety of careers as music producers or audio engineers in studio and/or live performance settings.

**Program Learning Outcomes**

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

- Demonstrate an understanding of musicianship and music theory.
- Employ music technology to create and refine musical product.
- Sensitively enhance multitrack recordings and live performances as a mixing engineer.
- Collaborate effectively with peers to create new musical works that exhibit quality and craftsmanship.
- Demonstrate a fundamental understanding of intellectual property law as it applies to music.

<b>Required Courses</b>		<b>Units Core (13 units)</b>
MIS-1A	Beginning Performance Techniques for Studio Recording	2
MIS-1B	Intermediate Performance Techniques for Studio Recording	2
MIS-1C	Advanced Performance Techniques for Studio Recording	2
MUS-3	Fundamentals of Music	4
MUS-93	The Business of Music	3

<b>Electives (23-25 units)</b>		<b>Units</b>
MIS-2	Songwriting	2
MIS-3	Digital Audio Production 1	4
MIS-4	Digital Audio Production 2	4
MIS-7	Introduction to Music Technology	3
MIS-12	Live Sound Reinforcement	3
MIS-13	Recording Studio Workshop I	3

<b>Elective Courses</b>	<b>Choose 4-6 units from the following</b>	<b>Units</b>
COM-9	Interpersonal Communication	3
MUS-4	Music Theory I	4
MUS-23	History of Rock and Roll	3
MUS-32A	Class Piano I	2
MUS-32B	Class Piano II	2
MUS-32C	Class Piano III	2
MUS-38	Beginning Applied Music I	2
MUS-39	Applied Music I	3
MIS-200	Music Industry Studies Work Experience	1-4

Total Units: 36-38 units

**Associate of Science Degree**

The Associate of Science Degree in Music Industry Studies: Audio Production will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**Page: 132 Successful Career Transitions- Non-Credit Certificate:** Program did not list total hours of 21 for certificate for this program. The corrected information is below.  
(July 2021 Addendum)

**Successful Career Transitions NCC8038**

The Successful Career Transitions certificate will provide students with the skills they need to successfully seek and obtain a new job. Students will learn to evaluate the job market and their own workplace skills, conduct a strategic job search, effectively network, write a persuasive cover letter and resume, and employ effective interview techniques.

**Program Learning Objectives:**

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

- Conduct market research and search for jobs in a chosen field using a variety of methods
- Tailor a resume and cover letter to meet the expectations of employers in their chosen field
- Interact professionally with employers, including during a job interview
- Understand professional communication expectations in the workplace

<u>Required Courses (21 hours)</u>		<u>Hours</u>
PDS– 818	The Successful Job Search	9
PDS– 809	Business Writing in a Technological World	12

Choose 1 course from the following:

<u>Elective Courses</u>		<u>Hours</u>
PDS– 809	Business Writing in a Technological World	12
PDS– 812	Workplace Communication Strategies	12

**Certificate and Programs Grid**

(July 2021 Addendum)

<b>CERTIFICATES and DEGREES</b>	Locally Approved Cert.	State Approved Cert.	Associate Degree	Moreno Valley	Norco
<b>Architecture</b>					
Architectural Graphics	*				NAS983*/B*/C* NCE983*

**Page 93. Architectural Graphics** is missing the dot under “Associate Degree” and this program offers both a locally approved certificate and associates degree.

## New Approved Programs:

### Business Administration 2.0 - A.S. Transfer Degree

**CSUGE: NAS1001 IGETC: NAS1002** These will replace the original Business Administration ADT program (NAS626 and NAS628) in the catalog next year. (November 2021 Addendum)

This degree is designed to facilitate the student's passage from Norco College to the California State University (CSU) System with an Associate in Science in Business Administration 2.0 for Transfer degree. This degree will satisfy the lower division requirements for the eventual conferral of the Bachelor's Degree in Business Administration at a CSU. With this degree the student will be prepared for transfer to the university upper division level. Additionally, the intent of an associate degree for transfer is to assist students in seamlessly transferring to a CSU.

### **Catalog Description**

This degree is designed to facilitate the student's passage from Norco College to the California State University (CSU) System with an Associate in Science in Business Administration 2.0 for Transfer degree. This degree will satisfy the lower division requirements for the eventual conferral of the Bachelor's Degree in Business Administration at a CSU. With this degree the student will be prepared for transfer to the university upper division level. Additionally, the intent of an associate degree for transfer is to assist students in seamlessly transferring to a CSU.

Program Learning Outcomes Upon successful completion of this program, students should be able to:

- Demonstrate use of technology and application software to analyze and solve business decisions.
- Demonstrate mathematical and accounting procedures used for business specific calculations and decisions.
- Demonstrate the application of economic and business theories to develop effective business processes.

### Required Courses: 26 Units

Course	Title	Units
ACC 1A	Principles of Accounting I	3
ACC 1B	Principles of Accounting II	3
ECO 7/7H*	Principles of Macroeconomics/Honors	3
ECO 8/8H*	Principles of Microeconomics/Honors	3
BUS 18A	Business Law I	3
MAT 12/12H*	Statistics/Honors	4

### Select one course below:

Course	Title	Units
MAT 5*	Calculus for Business and Life Science	4
MAT 1A*	Calculus I	4

### Select one course below:

Course	Title	Units
BUS 10/10H	Introduction to Business/Honors	3
BUS 24	Business Communication	3

PSY/SOC-48 is an approved course substitution for MAT-12/12H and may be used to satisfy the ADT statistics requirement. However, MAT-12/12H is the recommended statistics course for this program since it is more widely accepted for the Business Administration major across the CSU campuses.

### ASSOCIATE IN Science FOR TRANSFER DEGREE

The Associate in Science in Business Administration 2.0 for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better (or a "P" if taken as Pass/No Pass).

**Norco College Faculty:**

(July 2021 Addendum)

**DRAINVILLE, JAKE**

Assistant Professor, Anatomy and Physiology.

B.S in zoology from Cal Poly Pomona, M.S. in Biological Sciences from Cal Poly Pomona.

At Riverside Community College District since Spring 2020.

Name listed as Magan in the catalog in error and the correct spelling is Megan.

**LINDEMAN, MEGAN**

Assistant Professor, Art

B.F.A., Rhode Island School of Design, M.F.A, Claremont Graduate University. At Riverside Community College District since 2014.

(November 2021 Addendum)

**OWENS, LINDSAY M.**

Assistant Professor of Physics

B.S., M.S. Wright State University (Physics); Ph.D. University of Cincinnati. At Riverside Community College District since 2021.

**ASHBY, HAYLEY**

Professor, Library

B.A., University of California, Riverside; M.L.I.S., San Jose State University; Ed.D., Brandman University. At Riverside Community College District since 2001.

**RCCD AP Chart**

In the RCCD AP chart "ART 1 and 2" was changed to "Art History 1 and 2" to reflect the new discipline these courses are offered under.

## 2021-2022 RCCD Advanced Placement (AP) Examination Credit Chart

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Art History	3,4,5	<b>Art History 1 and 2</b>	3+3	Humanities	3 semester units toward Area C1 or C2	6	3 semester units toward Area 3A or 3B	5.3
Biology	3,4,5	<b>Biology 1</b>	4	Natural Sciences	4 semester units toward Area B2 and B3	6	4 semester units toward Area 5B and 5C	5.3
Calculus AB (or Calculus BC/AB Sub-Score)	3,4,5	<b>Math 1A</b>	4	Language and Rationality	3 semester units toward Area B4	3 (If a student passes more than one exam in Calculus only one exam may be applied.)	3 semester units toward Area 2A	2.7 (Maximum credit 5.3 semester units for both Math AB and Math BC exams.)
Calculus BC	3,4,5	<b>Math 1A and 1B</b>	4+4	Language and Rationality	3 semester units toward Area B4	6 (If a student passes more than one exam in Calculus only one exam may be applied.)	3 semester units toward Area 2A	5.3 (Maximum credit 5.3 semester units for both Math AB and Math BC exams.)
Chemistry <i>-Exam taken prior to Fall 2009</i>	3,4,5	<b>Chemistry 1A and 1B</b>	5+5	Natural Sciences	6 semester units toward Area B1 and B3	6	4 semester units toward Area 5A and 5C	5.3
Chemistry <i>-Exam taken Fall 2009 or later</i>	3,4,5	<b>Chemistry 1A and 1B</b>	5+5	Natural Sciences	4 semester units toward Area B1 and B3	6	4 semester units toward Area 5A and 5C	5.3
Chinese Language and Culture	3,4,5	<b>Chinese 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Comparative Government & Politics	3,4,5	<b>Political Science 2</b>	3	Social Behavioral Sciences	3 semester units toward Area D8	3	3 semester units toward Area 4	2.7

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Computer Science A	3,4,5	CIS/CSC Elective	3	N/A	N/A	3 (If a student passes more than one exam in Computer Science only one exam may be applied.)	N/A	1.3 (Maximum credit 2.7 semester units for both Computer Science A and AB exams.)
Computer Science AB	3,4,5	CIS/CSC Elective	3	N/A	N/A	6 (If a student passes more than one exam in Computer Science only one exam may be applied.)	N/A	2.7 (Maximum credit 2.7 semester units for both Computer Science A and AB exams.)
Computer Science Principles	3,4,5	Under Review	Under Review	Under Review	3 semester units toward Area B4	6 (If a student passes more than one exam in Computer Science only one exam may be applied.)	N/A	5.3
English Language and Composition	3,4,5	English 1A	4	Language and Rationality	3 semester units toward Area A2	6	3 semester units toward Area 1A	5.3 (Maximum credit 5.3 semester units for both English Language/Composition and English Literature/Composition exams.)
English Literature and Composition	3,4,5	English 1A and English Literature Elective (Elective units may be used towards AOE's in Communication, Media, and Languages and Humanities, Philosophy, and Arts. They may also be applied towards List C of the ADT in English.)	4+3	Language and Rationality and Humanities	6 semester units toward Area A2 and C2	6	3 semester units toward Area 1A or 3B	5.3 (Maximum credit 5.3 semester units for both English Language/Composition and English Literature/Composition exams.)

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Environmental Science <i>-Exam taken prior to Fall 2009</i>	3,4,5	<b>Biology 19 (Formerly BIO-36)</b>	3	Natural Sciences	4 semester units toward Area B1 and B3 <u>or</u> Area B2 and B3	4	3 semester units toward Area 5A and 5C	2.7
Environmental Science <i>-Exam taken Fall 2009 or later</i>	3,4,5	<b>Biology 19 (Formerly BIO-36)</b>	3	Natural Sciences	4 semester units toward Area B1 and B3	4	3 semester units toward Area 5A and 5C	2.7
European History	3,4,5	<b>History 5</b>	3	Social Behavioral Sciences or Humanities	3 semester units toward Area C2 or D6	6	3 semester units toward Area 3B or 4	5.3
French Language <i>-Exam taken prior to 2009</i>	3,4,5	<b>French 1 and 2</b>	5+5	Humanities	6 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
French Language <i>-Exam taken between Fall 2009 and Fall 2011. Exam offered until 2011.</i>	3,4,5	<b>French 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
French Language and Culture	3,4,5	<b>French 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
French Literature <i>-Exam offered until 2009</i>	3, 4,5	<b>French Elective</b>	3	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
German Language <i>-Exam taken prior to Fall 2009</i>	3,4,5	<b>German 1 and 2</b>	5+5	Humanities	6 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
German Language <i>-Exam taken between Fall 2009 and Fall 2011. Exam offered until 2011.</i>	3,4,5	<b>German 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
German Language and Culture	3,4,5	<b>German 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Human Geography	3,4,5	<b>Geography 2</b>	3	Social Behavioral Sciences	3 semester units toward Area D5	3	3 semester units toward Area 4	2.7
Italian Language and Culture	3,4,5	<b>Italian 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Japanese Language and Culture	3,4,5	<b>Japanese 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Latin Literature <i>-Exam offered until 2009</i>	3,4,5	<b>Latin 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	2.7
Latin Vergil <i>-Exam offered until 2012</i>	3,4,5	<b>Latin 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	3	3 semester units toward Area 3B and 6A	2.7
Latin	3,4,5	<b>Latin 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3



AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Macroeconomics	3,4,5	<b>Economics 7</b>	3	Social Behavioral Sciences	3 semester units toward Area D2	3	3 semester units toward Area 4	2.7
Microeconomics	3,4,5	<b>Economics 8</b>	3	Social Behavioral Sciences	3 semester units toward Area D2	3	3 semester units toward Area 4	2.7
Music Theory <i>-Exam taken prior to Fall 2009</i>	3 4,5	<b>Music Elective</b>  <b>Music 3</b>	3 4	Humanities	3 semester units toward Area C1	6	N/A	5.3
Music Theory <i>-Exam taken Fall 2009 or later</i>	3 4,5	<b>Music Elective</b>  <b>Music 3</b>	3 4	Humanities	N/A	6	N/A	5.3
Physics 1	3,4,5	<b>Physics 10 and 11</b> (If a student passes both Physics 1 and 2 AP exams they will earn credit for PHY-10/11 + 2 units of Physics Electives.)	4	Natural Sciences	4 semester units toward Area B1 and B3	4 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	4 semester units toward Area 5A and 5C	5.3 (Maximum credit 5.3 semester units for all Physics exams.)
Physics 2	3,4,5	<b>Physics 10 and 11</b> (If a student passes both Physics 1 and 2 AP exams they will earn credit for PHY-10/11 + 2 units of Physics Electives.)	4	Natural Sciences	4 semester units toward Area B1 and B3	4 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	4 semester units toward Area 5A and 5C	5.3 (Maximum credit 5.3 semester units for all Physics exams.)

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Physics B <i>-Exam taken prior to Fall 2009</i>	3,4,5	<b>Physics 2A and 2B</b>	4+4	Natural Sciences	6 semester units toward Area B1 and B3	6 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	4 semester units toward Area 5A and 5C	5.3 (Maximum credit 5.3 semester units for all Physics exams.)
Physics B <i>-Exam taken between Fall 2009 and 2014. Exam offered until 2014.</i>	3,4,5	<b>Physics 2A and 2B</b>	4+4	Natural Sciences	4 semester units toward Area B1 and B3	6 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	4 semester units toward Area 5A and 5C	5.3 (Maximum credit 5.3 semester units for all Physics exams.)
Physics C: Mechanics	3,4,5	<b>Physics 4A</b>	4	Natural Sciences	4 semester units toward Area B1 and B3	4 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	3 semester units toward Area 5A & 5C	2.7 (Maximum credit 5.3 semester units for all Physics exams.)
Physics C: Electricity and Magnetism	3,4,5	<b>Physics 4B</b>	4	Natural Sciences	4 semester units toward Area B1 and B3	4 (If a student passes more than one AP exam in Physics a maximum of 6 units may be applied.)	3 semester units toward Area 5A & 5C	2.7 (Maximum credit 5.3 semester units for all Physics exams.)
Psychology	3,4,5	<b>Psychology 1</b>	3	Social Behavioral Sciences	3 semester units toward Area D9	3	3 semester units toward Area 4	2.7
Seminar	3,4,5	No Equivalent Course	N/A	N/A	N/A	3	N/A	N/A

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Spanish Language <i>-Exam was offered until 2014</i>	3,4,5	<b>Spanish 1 and 2</b>	5+5	Humanities	6 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Spanish Language and Culture	3,4,5	<b>Spanish 1 and 2</b>	5+5	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Spanish Literature <i>-Exam was offered until 2013</i>	3,4,5	<b>Spanish Elective</b> (Elective units may be used towards AOE's in Communication, Media, and Languages and Humanities, Philosophy, and Arts. They may be also be applied to list A of the ADT in Spanish.)	3	Humanities	6 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Spanish Literature and Culture	3,4,5	<b>Spanish Elective</b> (Elective units may be used towards AOE's in Communication, Media, and Languages and Humanities, Philosophy, and Arts. They may be also be applied to list A of the ADT in Spanish.)	3	Humanities	3 semester units toward Area C2	6	3 semester units toward Area 3B and 6A	5.3
Statistics	3,4,5	<b>Math 12</b>	4	Language and Rationality	3 semester units toward Area B4	3	3 semester units toward Area 2A	2.7
Studio Art: 2D Design	3,4,5	<b>Art 22</b> (It is recommended that students meet with an Art faculty member to review portfolio.)	3	Humanities	N/A	3	N/A	5.3 (Maximum credit 5.3 semester units for Studio Art 2D, 3D, and Drawing exams.)
Studio Art: 3D Design	3,4,5	<b>Art 24</b> (It is recommended that students meet with an Art faculty member to review portfolio.)	3	Humanities	N/A	3	N/A	5.3 (Maximum credit 5.3 semester units for Studio Art 2D, 3D, and Drawing exams.)

AP Examination	AP Score	RCCD Associate Degree Subject Credit	RCCD Unit Credit	RCCD GE	CSU GE	CSU Semester Units Earned Toward Transfer	IGETC	UC Semester Units Earned Toward Transfer
Studio Art: Drawing	3,4,5	<b>Art 17</b> (It is recommended that students meet with an Art faculty member to review portfolio.)	3	Humanities	N/A	3	N/A	5.3 (Maximum credit 5.3 semester units for Studio Art 2D, 3D, and Drawing exams.)
U.S. Government & Politics	3,4,5	<b>Political Science 1</b>	3	American Institutions	3 semester units toward Area D8 and US-2	3	3 semester units toward Area 4 and US-2	2.7
U. S. History	3,4,5	<b>History 6 and 7</b>	3+3	American Institutions	3 semester units toward Area C2 or D6 and US-1	6	3 semester units toward Area 3B or 4 and US-1	5.3
World History: Modern	3,4,5	<b>History 2</b>	3	Social Behavioral Sciences or Humanities	3 semester units toward Area C2 or D6	3	3 semester units toward Area 3B or 4	5.3

-Actual AP transfer credit and number of units awarded for AP exams towards CSUGE/IGETC and towards admission is determined by the CSU and UC systems.

-The AP chart is based on the most current information available at the time of catalog publication.

-The UC system-wide Policy for AP credit (units towards admission) can be found at:

[AP credits | UC Admissions \(universityofcalifornia.edu\)](https://www.universityofcalifornia.edu/ap-credits-uc-admissions)

-The CSU system-wide policy for AP (units towards admission and towards CSU GE Breadth) can be found at:

<https://www2.calstate.edu/apply/transfer/pages/advanced-placement-ap.aspx>

-2020 IGETC Standards Version 2.1

[IGETC-STANDARDS-FINAL-Approved-June-3-2020.pdf \(icas-ca.org\)](https://www.icas-ca.org/IGETC-STANDARDS-FINAL-Approved-June-3-2020.pdf)

**-Important Note:** Each CSU and UC campus determines how an AP exam may count toward credit in a particular major and which scores they consider acceptable. This information may be found in either the university's college catalog or on their website. Students should see a counselor to review the applicability of AP credits towards the different academic requirements.

**Norco College**  
**California State University General Education Requirements 2021-2022**  
*The courses listed below will fulfill the lower division general education requirements for all CSU campuses.*

To obtain a Bachelor's degree from a CSU campus, a student must complete 48 units of general education. A community college can certify 39 of these units as having fulfilled the CSU lower division general education requirements. The remaining 9 units of upper-division general education coursework are to be taken at the CSU campus after transfer. A course can only be certified if it was approved for CSU GE when it was taken.

**Note: Riverside City College and Moreno Valley College are separate colleges and the courses that are approved for CSU GE may vary. Students who wish to take courses at another institution and apply them towards CSU GE should always first consult with a counselor to make sure the course will fulfill the intended requirement.**

**A. English Language Communication and Critical Thinking (min. 9 semester or 12 quarter units) – Select one course from each group: Grades of “C-” or better are required.**

**A-1: Oral Communication:**

COM-1 Public Speaking or  
 COM-1H Honors Public Speaking  
 COM-6 Dynamics of Small Group Communication  
 COM-9 Interpersonal Communication or  
 COM-9H Honors Interpersonal Communication

**A-3: Critical Thinking:**

ALR-4 Critical Reading as Critical Thinking  
 COM-2 Introduction to Persuasion  
 COM-3 Argumentation and Debate  
 ENG-1B Critical Thinking and Writing or

**A-2: Written Communication:**

ENG-1A English Composition or  
 ENG-1AH Honors English Composition

ENG-1BH Honors Critical Thinking and Writing  
 MAT-32 Introduction to Symbolic Logic (Same as PHI-32)  
 PHI-11 Critical Thinking  
 PHI-32 Introduction to Symbolic Logic (Same as MAT-32)

**B. Scientific Inquiry and Quantitative Reasoning (min. 9 semester or 12 quarter units) – Select one course from each group: Also, one of the science courses must have a lab---see underlined courses.**

**B-1: Physical Science:**

CHE-1A General Chemistry, I  
CHE-1B General Chemistry, II  
CHE-2A Introductory Chemistry, I  
CHE-2B Introductory Chemistry, II  
 CHE-3 Fundamentals of Chemistry  
 CHE-10 Chemistry for Everyone  
 CHE-12A Organic Chemistry, I

CHE-12B Organic Chemistry, II  
 GEG-1 Physical Geography or  
 GEG-1H Honors Physical Geography  
GEG-1L Physical Geography Laboratory  
 (has a Corequisite of GEG-1 or 1H)  
 GEG-5 Weather and Climate  
 PHS-1 Introduction to Physical Science

PHY-2A General Physics I  
PHY-2B General Physics II  
PHY-4A Mechanics  
PHY-4B Electricity and Magnetism  
PHY-4C Heat, Light and Waves  
 PHY-10 Introduction to General Physics  
PHY-11 Physics Lab (has a Corequisite of PHY-10)

**B-2: Life Science:**

ANT-1 Physical Anthropology or  
 ANT-1H Honors Physical Anthropology  
ANT-1L Physical Anthropology Laboratory  
 (has a Corequisite of ANT-1 or 1H)  
BIO-1 General Biology or  
BIO-1H Honors General Biology  
BIO-3 Field Botany  
BIO-4 Human Biology (Formerly BIO-17)

BIO-5 General Botany  
BIO-7 Marine Biology  
BIO-8 Principles of Ecology  
 BIO-10 Life Science Principles  
 BIO-18 Human Genetics (Formerly BIO-34)  
 BIO-19 Environmental Sci. (Formerly BIO-36)  
BIO-21 California Naturalist  
 BIO-45 Survey Anat. & Phys. (Formerly AMY-10)

BIO-50A Anatomy and Physiology I (Formerly AMY-2A)  
BIO-50B Anatomy and Physiology II (Formerly AMY-2B)  
BIO-55 Microbiology (Formerly MIC-1)  
BIO-60 Introduction to Molecular and Cellular Biology  
 (Formerly BIO-11)  
BIO-61 Introduction to Organismal and Population Biology  
 (Formerly BIO-12)  
 PSY-2 Biological Psychology

**B-3: Laboratory Activity:**

This requirement is satisfied by completion of any course in B-1 or B-2 with a laboratory. Lab courses are underlined.

**B-4: Mathematics/Quantitative Reasoning (Grade of “C-” or better is required; min. 3 semester or 4 quarter units):**

MAT-1A Calculus I  
 MAT-1B Calculus II  
 MAT-1C Calculus III  
 MAT-2 Differential Equations  
 MAT-3 Linear Algebra

MAT-5 Calculus for Business and Life Science  
 MAT-10 Pre-Calculus  
 MAT-11 College Algebra  
 MAT-12 Statistics or  
 MAT-12H Honors Statistics

MAT-25 Mathematics for the Liberal Arts Student  
 MAT-36 Trigonometry  
 PSY/SOC-48 Statistics for the Behavioral Sciences

**C. Arts and Humanities (min. 9 semester or 12 quarter units) – Select three courses, with at least one course from “Arts” and one course from “Humanities”:**

**C-1: Arts:**

AHS-1 History of Western Art: Prehistoric, Ancient and Medieval  
 AHS-2 History of Western Art: Renaissance through Contemporary or  
 AHS-2H Honors History of Western Art: Renaissance through Contemporary  
 AHS-4 Introduction to Visual Culture  
 AHS-5 Arts of Africa, Oceania, and Indigenous North America  
 AHS-6 Art Appreciation (Same as ART-6) or  
 AHS-6H Honors Art Appreciation (Same as ART-6H)  
 AHS-7 Women Artists in History

AHS-8 Art History of the Photographic Image  
 AHS-9 African Art History  
 AHS-10 Modern and Contemporary Art History  
 AHS-12 Asian Art History  
 AHS-13 Pre-Columbian Art History  
 AHS-14 Latin American Art: Colonial to Present  
 ARE-35 History of Architecture - Beginnings through Gothic  
 ARE-36 History of Architecture - Renaissance to Modern  
 ART-6 Art Appreciation (Same as AHS-6) or  
 ART-6H Honors Art Appreciation (Same as AHS-6H)

COM-7 Oral Interpretation of Literature  
 COM-11 Storytelling  
 DAN-6 Dance Appreciation  
 GAM-2 History of Video Games (Formerly GAM-21)  
 MUS-3 Fundamentals of Music  
 MUS-19 Music Appreciation or  
 MUS-19H Honors Music Appreciation  
 MUS-23 History of Rock and Roll  
 MUS-25 Jazz Appreciation  
 MUS-89 Music of Multicultural America or  
 MUS-89H Honors Music of Multicultural America  
 THE-3 Introduction to the Theater  
 THE-29 Musical Theater Appreciation

**C-2: Humanities:**

AHS-4 Introduction to Visual Culture  
 CHI-1 Mandarin Chinese 1  
 CHI-2 Mandarin Chinese 2  
 CHI-11 Culture and Civilization  
 COM-7 Oral Interpretation of Literature  
 ENG-1B Critical Thinking and Writing or  
 ENG-1BH Honors Critical Thinking and Writing  
 ENG-6 British Literature I: Anglo-Saxon through 18<sup>th</sup> century

ENG-41 World Literature II: 17<sup>th</sup> Cent. - Present  
 ENG-44 Poetry from 20<sup>th</sup> century to the Present  
 ENG-45 Modern Drama  
 ENG-48 Short Story and Novel from 20<sup>th</sup> Century  
 ESL-50 Advanced American College English  
 ETS-2 Intro. to Chicano/a Studies (Same as HIS-31)  
 ETS-14 African American History I (Same as HIS-14)  
 ETS-18 Native American Lit. (Same as ENG-18)

HUM-4H Honors Arts and Ideas: Ancient World through the Late Medieval Period  
 HUM-5 Arts and Ideas: Renaissance- Modern or  
 HUM-5H Honors Arts and Ideas: Renaissance- Modern  
 HUM-8 Intro. to Mythology (Same as ENG-8)  
 HUM-9 American Voices  
 HUM-10 World Religions or  
 HUM-10H Honors World Religions  
 HUM-11 Religion in America

**C-2: Humanities (Continued):**

ENG-7 British Literature II: Romanticism through Postmodernism  
 ENG-8 Intro. to Mythology (Same as HUM-8)  
 ENG-9 Introduction to Shakespeare  
 ENG-11 Creative Writing  
 ENG-14 American Literature I: Pre-Contact through the Civil War  
 ENG-15 American Literature II: 1860 to Present  
 ENG-16 Introduction to Linguistics  
 ENG-18 Native American Lit. (Same as ETS-18)  
 ENG-20 African American Lit. (Same as ETS-20)  
 ENG-23 Bible as Literature (Same as HUM-23)  
 ENG-24 Asian American Lit. (Same as ETS-24)  
 ENG-25 Latinx Lit. of the U.S. (Same as ETS-25)  
 ENG-30 Children's Literature  
 ENG-35 Images of Women in Literature  
 ENG-40 World Literature I: From Ancient Literatures to the 17<sup>th</sup> Century

ETS-20 African American Lit. (Same as ENG-20)  
 ETS-24 Asian American Lit. (Same as ENG-24)  
 ETS-25 Latinx Lit. of the U.S. (Same as ENG-25)  
 FRE-1 French I  
 FRE-2 French 2  
 FRE-8 Intermediate Conversation  
 HIS-1 World History to 1500  
 HIS-2 World History Since 1500  
 HIS-6 United States History to 1877 or  
 HIS-6H Honors United States History to 1877  
 HIS-7 United States History from 1865 or  
 HIS-7H Honors United States History from 1865  
 HIS-14 African American History I (Same as ETS-14)  
 HIS-25 History of Mexico  
 HIS-26 History of California  
 HIS-31 Intro. to Chicano/a Studies (Same as ETS-2)  
 HIS-34 History of Women in America  
 HUM-4 Arts and Ideas: Ancient World through the Late Medieval Period or

HUM-16 Arts and Ideas: American Culture  
 HUM-18 Death: An Interdisciplinary Perspective  
 HUM-23 The Bible as Literature (Same as ENG-23)  
 HUM-35 Philosophy of Religion (Same as PHI-35)  
 PHI-10 Introduction to Philosophy or  
 PHI-10H Honors Introduction to Philosophy  
 PHI-12 Intro. to Ethics: Contemporary Moral Issues  
 PHI-19 Native American Thought  
 PHI-22 Philosophy of Science  
 PHI-33 Intro. to Social and Political Philosophy  
 PHI-34 Philosophical Survey of Sex, Gender, and Sexuality  
 PHI-35 Philosophy of Religion (Same as HUM-35)  
 PHI-36 Asian Philosophy  
 SPA-1 Spanish 1  
 SPA-2 Spanish 2  
 SPA-3 Spanish 3  
 SPA-4 Spanish 4  
 SPA-8 Intermediate Conversation  
 SPA-11 Spanish Culture and Civilization  
 SPA-12 Latin American Culture and Civilization

**D. Social Sciences (min. 6 semester or 8 quarter units) – Select two courses:**

ADJ-1 Introduction to Administration of Justice  
 ADJ-3 Concepts of Criminal Law  
 ADJ-9 Law in American Society  
 ANT-2 Cultural Anthropology or  
 ANT-2H Honors Cultural Anthropology  
 ANT-3 Prehistoric Cultures  
 ANT-4 Native American Cultures (Same as ETS-27)  
 ANT-5 Cultures of Ancient Mexico  
 ANT-6 Introduction to Archaeology  
 ANT-7 Anthropology of Religion  
 ANT-8 Language and Culture  
 COM-9 Interpersonal Communication or  
 COM-9H Honors Interpersonal Communication  
 COM-12 Intercultural Communication  
 COM-13 Gender and Communication  
 COM-20 Introduction to Communication Theory  
 EAR-20 Child Growth and Development  
 EAR-42 Child, Family and Community  
 ECO-4 Introduction to Economics  
 ECO-7 Principles of Macroeconomics or  
 ECO-7H Honors Principles of Macroeconomics  
 ECO-8 Principles of Microeconomics or  
 ECO-8H Honors Principles of Microeconomics  
 ETS-2 Intro. to Chicano/a Studies (Same as HIS-31)  
 ETS-14 African American History I (Same as HIS-14)  
 ETS-21 Latinx Politics (Same as POL-21)

ETS-23 Race, Ethnicity, and Politics in America (Same as POL-23)  
 ETS-27 Native American Cultures (Same as ANT-4)  
 GEG-2 Human Geography  
 GEG-3 World Regional Geography  
 GEG-4 Geography of California  
 GEG-6 Geography of the U. S. and Canada  
 HIS-1 World History to 1500  
 HIS-2 World History since 1500  
 HIS-6 United States History to 1877 or  
 HIS-6H Honors United States History to 1877  
 HIS-7 United States History from 1865 or  
 HIS-7H Honors United States History from 1865  
 HIS-14 African American History I (Same as ETS-14)  
 HIS-25 History of Mexico  
 HIS-26 History of California  
 HIS-31 Intro. to Chicano/a Studies (Same as ETS-2)  
 HIS-34 History of Women in America  
 JOU-7 Mass Communications  
 POL-1 American Politics or  
 POL-1H Honors American Politics  
 POL-2 Comparative Politics  
 POL-4 Intro. to World Politics or  
 POL-4H Honors Intro. to World Politics  
 POL-5 The Law and Politics  
 POL-7A Current Political Issues

POL-11 Political Theory  
 POL-13 Intro. to American Foreign Policy  
 POL-20 Latin American Politics  
 POL-21 Latinx Politics (Same as ETS-21)  
 POL-22 Politics of the Middle East  
 POL-23 Race, Ethnicity, and Politics in America (Same as ETS-23)  
 PSY-1 General Psychology or  
 PSY-1H Honors General Psychology  
 PSY-8 Introduction to Social Psychology  
 PSY-9 Developmental Psychology  
 PSY-33 Theories of Personality  
 PSY-35 Abnormal Psychology or  
 PSY-35H Honors Abnormal Psychology  
 PSY-50 Research Methods in Psychology  
 SOC-1 Introduction to Sociology or  
 SOC-1H Honors Introduction to Sociology  
 SOC-2 American Social Problems  
 SOC-3 Social Inequality  
 SOC-10 Race and Ethnic Relations or  
 SOC-10H Honors Race and Ethnic Relations  
 SOC-12 Marriage and Family Relations  
 SOC-15 Introduction to Women's Studies  
 SOC-20 Introduction to Criminology  
 SOC-50 Introduction to Social Research Methods

**E. Lifelong Learning and Self-Development (min. 3 semester or 4 quarter units):**

ALR-3 Reading for Academic & Lifelong Literacy  
 BIO-16 Human Reproduction and Sexual Behavior (Formerly BIO-30)  
 BIO-35 Health Science (Same as HES-1)  
 EAR-20 Child Growth and Development  
 EAR-42 Child, Family and Community  
 Activity courses - *Only 1 unit of activity coursework may be applied towards area E. Students who took GUI-48 when it was approved in area E as 2 units may combine 1 unit from the approved activity courses listed below in order to fulfill the 3 units required in area E:*  
 KIN-A40 Karate, Beginning  
 KIN-A41 Karate, Intermediate  
 KIN-A43 T'ai-chi Ch'uan, Beginning  
 KIN-A44 T'ai-chi Ch'uan, Intermediate  
 KIN-A46 Hatha Yoga, Beginning  
 KIN-A47 Hatha Yoga, Intermediate  
 KIN-A62 Flag Football  
 KIN-A64A Soccer, Beginning  
 KIN-A64B Soccer, Intermediate  
 KIN-A64C Soccer, Advanced

GUI-47 Career Exploration and Life Planning  
 GUI-48 College Success Strategies  
 HES-1 Health Science (Same as BIO-35)  
 KIN-4 Nutrition  
 KIN-10 Introduction to Kinesiology  
 KIN-35 Foundation for Fitness and Wellness  
 KIN-A75A Walking for Fitness, Beginning  
 KIN-A75B Walking for Fitness, Intermediate  
 KIN-A77A Jogging for Fitness, Beginning  
 KIN-A77B Jogging for Fitness, Intermediate  
 KIN-A77C Jogging for Fitness, Advanced  
 KIN-A81A Physical Fitness, Beginning  
 KIN-A81B Physical Fitness, Intermediate  
 KIN-A81C Physical Fitness, Advanced  
 KIN-A83 Kickboxing Aerobics  
 KIN-A90A Weight Training, Beginning

KIN-36 Wellness: Lifestyle Choices  
 KIN-38 Stress Management  
 PSY-9 Developmental Psychology  
 PSY-10 Personal and Social Adjustment  
 PSY-33 Theories of Personality  
 SOC-12 Marriage and Family Relations  
 KIN-A90B Weight Training, Intermediate  
 KIN-A90C Weight Training, Advanced  
 KIN-V01 Cross Country, Varsity, Men  
 KIN-V10 Soccer, Varsity Men  
 KIN-V12 Cross Country, Varsity, Women  
 KIN-V25 Soccer, Varsity Women  
 KIN-V78 Long Distance Running  
 KIN-V94 In-Season Varsity Sport Conditioning  
 KIN-V95 Out of Season Varsity Sport Condition

**Military veterans who submit a DD214 will be awarded a full 3 units towards area E certification.**

**F. Ethnic Studies (min. 3 semester or 4 quarter units):**

ETS-14 African American History I (Same as HIS-14)  
 ETS-21 Latinx Politics (Same as POL-21)  
 ETS-23 Race, Ethnicity, and Politics in America (Same as POL-23)

HIS-14 African American History I (Same as ETS-14)  
 POL-21 Latinx Politics (Same as ETS-21)  
 POL-23 Race, Ethnicity, and Politics in America (Same as ETS-23)

### **CSU Graduation Requirement in United States History, Constitution and Government:**

Although this is not part of the general education requirements, it is a **CSU graduation requirement** that you can complete at a community college before you transfer. ETS-2, HIS-6/6H, 7/7H, 31, or 34 may also be used to partially fulfill area C or D. HUM-16 may also be used to partially fulfill area C. POL-1/1H may also be used to partially fulfill area D. ETS/POL-21 or 23 may also be used to fulfill area F or to partially fulfill area D. ETS/HIS-14 may also be used to fulfill area F or to partially fulfill area C or D.

#### **1. U.S. History**

ETS-2 Introduction to Chicano/a Studies (Same as HIS-31)  
ETS-14 African American History I (Same as HIS-14)  
HIS-6 United States History to 1877 or HIS-6H Honors United States History to 1877  
HIS-7 United States History from 1865 or HIS-7H Honors United States History from 1865  
HIS-14 African American History I (Same as ETS-14)  
HIS-31 Introduction to Chicano/a Studies (Same as ETS-2)  
HIS-34 History of Women in America  
HUM-16 Arts and Ideas: American Culture

#### **2. Constitution and Government**

ETS-21 Latinx Politics (Same as POL-21)  
POL-1 American Politics or POL-1H Honors American Politics  
POL-21 Latinx Politics (Same as ETS-21)

**Note:** Norco College's POL-1/1H or ETS/POL-21 fulfills the CSU graduation requirement in both U.S. government and California state and local government. Students who have completed ETS/POL-23, or who have received a score of 3 or higher on the AP U.S. Government and Politics exam, or who have taken a U.S. government class at an out-of-state institution may have fulfilled the U.S. government requirement but will still need to fulfill the California state and local government in order to graduate from the CSU.

#### **Notes:**

1. Courses cannot be double-counted to satisfy more than one GE area, even if a course is listed in more than one area.
2. Upper division transfer students will need to complete a minimum of 60 transferable units, their "Golden 4" courses, and at least 30 units of general education.
3. "Golden 4 courses" in areas A-1, A-2, A-3, and B-4 must be completed with grades of "C-" or better. However, RCCD requires a "C" grade or better to meet course prerequisites.
4. It is highly recommended to make an appointment with a counselor to ensure proper academic planning and to complete a student educational plan (SEP).
5. CSU GE area F is effective for students beginning at a CCC or a CSU campus in fall 2021 and beyond. Students with continuous enrollment prior to fall 2021 may choose to complete the pre-fall 21 CSU GE pattern without Area F and with 9 units from at least two different disciplines completed in Area D. For purposes of area F, continuous enrollment is defined as attendance in at least one semester per calendar year at a CSU or California Community College or a combination of the two. See a counselor for details.

**CSU GE for STEM** - Students pursuing certain Associate Degrees for Transfer may be eligible to complete CSU GE for STEM, deferring two lower-division GE courses until after transfer. CSU GE for STEM is applicable only to majors in which the Transfer Model Curriculum explicitly indicates the availability of the option. **At Norco College, currently only the ADT in Biology allows CSU GE for STEM.**

**"CSU GE Breadth for STEM" certification as part of an Associate Degree for Transfer in Biology would require that the student has completed:**

- a. All courses in Areas A, B, E and F of the traditional GE Breadth curriculum; and
- b. One course in Area C1 Arts and one course in Area C2 Humanities; and
- c. One course in Area D

***Please consult with a Norco College counselor to discuss which general education pattern is the best option for you based on your individual major, goals, and transfer institution.***

**Norco College**  
**Intersegmental General Education Transfer Curriculum (IGETC) 2021-2022**  
**For Transfer to CSU and UC**

Completion of the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University (CSU) or University of California (UC) system without the need to take additional lower-division general education courses. For certain majors at some of the UC campuses it may be more advantageous to complete a campus-specific general education pattern. IGETC certification is valid for community college transfer students only. Those who have already transferred to the CSU/UC systems may under some circumstances return to Norco College to complete IGETC requirements. A course can only be certified if it was approved for IGETC when it was taken.

**Note: Riverside City College and Moreno Valley College are separate colleges and the courses that are approved for IGETC may vary. Students who wish to take courses at another institution and apply them towards IGETC should always first consult with a counselor to make sure the course will fulfill the intended requirement.**

**Transfer students will receive IGETC certification after completing all of the subject areas below with a min. “C” grade or better (A grade of “C-“ is not acceptable.)**

**Area 1 - English Communication (min. 6-9 semester or 8-12 quarter units) -**

**CSU – 3 courses required; select one from each group:**

**UC – 2 courses required; select one from group 1A and one from group 1B:**

**1A - English Composition:**

ENG-1A English Composition or  
 ENG-1AH Honors English Composition

**1C - Oral Communication: (CSU requirement only)**

COM-1 Public Speaking or  
 COM-1H Honors Public Speaking  
 COM-6 Dynamics of Small Group Communication  
 COM-9 Interpersonal Communication or  
 COM-9H Honors Interpersonal Communication

**1B - Critical Thinking – English Composition:**

ENG-1B Critical Thinking and Writing or  
 ENG-1BH Honors Critical Thinking and Writing

**Area 2 – Mathematical Concepts and Quantitative Reasoning (min. 3 semester or 4 quarter units) – select one course:**

MAT-1A Calculus I\*\*  
 MAT-1B Calculus II  
 MAT-1C Calculus III  
 MAT-2 Differential Equations

MAT-3 Linear Algebra  
 MAT-5 Calculus for Business and Life Science\*\*  
 MAT-10 Precalculus\*\*  
 MAT-11 College Algebra\*\*

MAT-12 Statistics or\*\*  
 MAT-12H Honors Statistics\*\*  
 MAT-25 Mathematics for the Liberal Arts Student  
 PSY/SOC-48 Statistics for the Behavioral Sciences\*\*

**Area 3 – Arts and Humanities (min. 9 semester or 12 quarter units) –**

**Select three courses, with at least one course from the “Arts” and one course from the “Humanities”:**

**3A – Arts:**

AHS-1 History of Western Art: Pre-Historic, Ancient, and Medieval  
 AHS-2 History of Western Art: Renaissance through Contemporary or  
 AHS-2H Honors History of Western Art: Renaissance through Contemporary  
 AHS-5 Arts of Africa, Oceania, and Indigenous North America  
 AHS-6 Art Appreciation (Same as ART-6) or  
 AHS-6H Honors Art Appreciation (Same as ART-6H)  
 AHS-7 Women Artists in History

AHS-9 African Art History  
 AHS-10 Modern and Contemporary Art History  
 AHS-12 Asian Art History  
 AHS-13 Pre-Columbian Art History  
 AHS-14 Latin American Art: Colonial to the Present  
 ARE-35 History of Architecture - Beginning through Gothic  
 ARE-36 History of Architecture - Renaissance through Modern  
 ART-6 Art Appreciation (Same as AHS-6) or  
 ART-6H Honors Art Appreciation (Same as AHS-6H)

DAN-6 Dance Appreciation  
 GAM-2 History of Video Games (Formerly GAM-21)  
 MUS-3 Fundamentals of Music  
 MUS-19 Music Appreciation or  
 MUS-19H Honors Music Appreciation  
 MUS-23 History of Rock and Roll  
 MUS-25 Jazz Appreciation  
 MUS-89 Music of Multicultural America or  
 MUS-89H Honors Music of Multicultural America  
 THE-3 Introduction to the Theatre  
 THE-29 Musical Theater Appreciation

**3B – Humanities:**

CHI-11 Culture and Civilization  
 COM-12 Intercultural Communication\*  
 ENG-6 British Literature I: Anglo-Saxon through 18<sup>th</sup> Century  
 ENG-7 British Literature II: Romanticism through Postmodernism  
 ENG-8 Introduction to Mythology (Same as HUM-8)  
 ENG-9 Introduction to Shakespeare  
 ENG-14 American Literature I: Pre-Contact through Civil War  
 ENG-15 American Literature II: 1860 to the Present  
 ENG-16 Introduction to Linguistics  
 ENG-20 Survey of African American Literature (Same as ETS-20)  
 ENG-23 The Bible as Literature (Same as HUM-23)  
 ENG-30 Children’s Literature  
 ENG-35 Images of Women in Literature  
 ENG-40 World Literature I: From Ancient Literatures to the 17<sup>th</sup> Century  
 ENG-41 World Literature II: 17<sup>th</sup> Century Through the Present  
 ENG-44 Poetry from the 20<sup>th</sup> Century to the Present  
 ENG-45 Modern Drama  
 ENG-48 Short Story and Novel from the 20<sup>th</sup> Century to the Present  
 ETS-2 Introduction to Chicano/a Studies\* (Same as HIS-31)

ETS-14 African American History I\* (Same as HIS-14)  
 ETS-20 Survey of African American Literature (Same as ENG-20)  
 FRE-2 French 2  
 FRE-8 Intermediate Conversation  
 HIS-1 World History to 1500\*  
 HIS-2 World History Since 1500\*  
 HIS-6 United States History to 1877\* or  
 HIS-6H Honors United States History to 1877\*  
 HIS-7 United States History from 1865\* or  
 HIS-7H Honors United States History from 1865\*  
 HIS-14 African American History I\* (Same as ETS-14)  
 HIS-25 History of Mexico\*  
 HIS-26 History of California\*  
 HIS-31 Introduction to Chicano/a Studies\* (Same as ETS-2)  
 HIS-34 History of Women in America\*  
 HUM-4 Arts and Ideas: Ancient World through the Late Medieval Period or  
 HUM-4H Honors Arts and Ideas: Ancient World through the Late Medieval Period  
 HUM-5 Arts and Ideas: The Renaissance through the Modern Era or  
 HUM-5H Honors Arts and Ideas: The Renaissance through the Modern Era  
 HUM-8 Introduction to Mythology (Same as ENG-8)

HUM-9 American Voices  
 HUM-10 World Religions or  
 HUM-10H Honors World Religions  
 HUM-11 Religion in America  
 HUM-16 Arts and Ideas: American Culture  
 HUM-18 Death: An Interdisciplinary Perspective  
 HUM-23 The Bible as Literature (Same as ENG-23)  
 HUM-35 Philosophy of Religion (Same as PHI-35)  
 PHI-10 Introduction to Philosophy or  
 PHI-10H Honors Introduction to Philosophy  
 PHI-12 Intro. to Ethics: Contemporary Moral Issues  
 PHI-19 Native American Thought  
 PHI-22 Philosophy of Science  
 PHI-33 Introduction to Social and Political Philosophy  
 PHI-35 Philosophy of Religion (Same as HUM-35)  
 PHI-36 Asian Philosophy  
 SPA-2 Spanish 2  
 SPA-3 Spanish 3  
 SPA-4 Spanish 4  
 SPA-8 Intermediate Conversation  
 SPA-11 Spanish Culture and Civilization  
 SPA-12 Latin American Culture and Civilization



**Area 4 – Social and Behavioral Sciences (min. 9 semester or 12 quarter units) – Select three courses from at least two disciplines:**

ADJ-1 Introduction to the Administration of Justice	ETS-14 African American History I* (Same as HIS-14)	POL-2 Comparative Politics
ADJ-3 Concepts of Criminal Law	ETS-27 Native American Cultures (Same as ANT-4)	POL-4 Introduction to World Politics or
ADJ-9 Law in American Society	GEG-2 Human Geography	POL-4H Honors Introduction to World Politics
ANT-1 Physical Anthropology* or	GEG-3 World Regional Geography	POL-5 The Law and Politics
ANT-1H Honors Physical Anthropology*	GEG-4 Geography of California	POL-11 Political Theory
ANT-2 Cultural Anthropology or	GEG-6 Geography of the U.S. and Canada	POL-13 Introduction to American Foreign Policy
ANT-2H Honors Cultural Anthropology	HIS-1 World History to 1500*	PSY-1 General Psychology or
ANT-3 Prehistoric Culture	HIS-2 World History since 1500*	PSY-1H Honors General Psychology
ANT-4 Native American Cultures (Same as ETS-27)	HIS-6 United States History to 1877* or	PSY-2 Biological Psychology*
ANT-5 Cultures of Ancient Mexico	HIS-6H Honors United States History to 1877*	PSY-8 Introduction to Social Psychology
ANT-6 Introduction to Archaeology	HIS-7 United States History from 1865* or	PSY-9 Developmental Psychology
ANT-7 Anthropology of Religion	HIS-7H Honors United States History from 1865*	PSY-33 Theories of Personality
ANT-8 Language and Culture	HIS-14 African American History I* (Same as ETS-14)	PSY-35 Abnormal Psychology
COM-12 Intercultural Communication*	HIS-25 History of Mexico*	PSY-50 Research Methods in Psychology
COM-13 Gender and Communication	HIS-26 History of California*	SOC-1 Introduction to Sociology or
COM-20 Introduction to Communication Theory	HIS-31 Introduction to Chicano/a Studies* (Same as ETS-2)	SOC-1H Honors Introduction to Sociology
EAR-20 Child Growth and Development	HIS-34 History of Women in America*	SOC-2 American Social Problems
ECO-4 Introduction to Economics**	JOU-7 Mass Communications	SOC-3 Social Inequality
ECO-7 Principles of Macroeconomics or	POL-1 American Politics or	SOC-10 Race and Ethnic Relations or
ECO-7H Honors Principles of Macroeconomics	POL-1H Honors American Politics	SOC-10H Honors Race and Ethnic Relations
ECO-8 Principles of Microeconomics or		SOC-12 Marriage and Family Relations
ECO-8H Honors Principles of Microeconomics		SOC-15 Introduction to Women's Studies
ETS-2 Introduction to Chicano/a Studies* (Same as HIS-31)		SOC-20 Introduction to Criminology
		SOC-50 Introduction to Social Research Methods

**Area 5 – Physical and Biological Sciences (min. 7 semester or 9 quarter units) – Select at least one Physical and one Biological Science course. One of the two courses must include a lab – see underlined courses:**

**5A – Physical Science:**

CHE-1A General Chemistry, I  
CHE-1B General Chemistry, II  
CHE-2A Introductory Chemistry, I\*\*  
CHE-2B Introductory Chemistry, II  
CHE-3 Fundamentals of Chemistry\*\*  
CHE-10 Chemistry for Everyone\*\*  
CHE-12A Organic Chemistry, I

CHE-12B Organic Chemistry, II  
GEG-1 Physical Geography  
GEG-1H Honors Physical Geography  
GEG-1L Physical Geography Laboratory  
(has a Corequisite of GEG-1 or 1H)  
GEG-5 Weather and Climate  
PHS-1 Introduction to Physical Science

PHY-2A General Physics I\*\*  
PHY-2B General Physics II\*\*  
PHY-4A Mechanics\*\*  
PHY-4B Electricity and Magnetism\*\*  
PHY-4C Heat, Light and Waves\*\*  
PHY-10 Introduction to General Physics\*\*  
PHY-11 Physics Lab (has a Corequisite of PHY-10)

**5B - Biological Science:**

ANT-1 Physical Anthropology\* or  
ANT-1H Honors Physical Anthropology\*  
ANT-1L Physical Anthropology Laboratory  
(has a Corequisite of ANT-1 or 1H)  
BIO-1 General Biology or  
BIO-1H Honors General Biology  
BIO-3 Field Botany  
BIO-4 Human Biology (Formerly BIO-17)  
BIO-5 General Botany

BIO-7 Marine Biology  
BIO-8 Principles of Ecology\*\*  
BIO-10 Life Science Principles\*\*  
BIO-18 Human Genetics (Formerly BIO-34)  
BIO-19 Environmental Sci.\*\* (Formerly BIO-36)  
BIO-21 California Naturalist  
BIO-45 Survey of Human Anatomy and Physiology  
(Formerly AMY-10)

BIO-50A Anatomy and Physiology I (Formerly AMY-2A)  
BIO-50B Anatomy and Physiology II (Formerly AMY-2B)  
BIO-55 Microbiology (Formerly MIC-1)  
BIO-60 Introduction to Molecular and Cellular Biology  
(Formerly BIO-11)  
BIO-61 Introduction to Organismal and Population Biology  
(Formerly BIO-12)  
PSY-2 Biological Psychology\*

**5C – Science Laboratory:** This requirement is satisfied by completion of any course in 5A or 5B with a laboratory. Lab courses are underlined.

**Area 6 – Languages Other Than English (Select one course – UC requirement only):**

**6A:**

CHI-1 Mandarin Chinese 1  
CHI-2 Mandarin Chinese 2

FRE-1 French 1  
FRE-2 French 2  
SPA-1 Spanish 1

SPA-2 Spanish 2  
SPA-3 Spanish 3  
SPA-4 Spanish 4

**Or 6B:** Proficiency equivalent to two years of high school in the same language. (Students from non-English speaking countries should see a counselor for language proficiency equivalencies.)

**CSU Graduation Requirement Only in United States History, Constitution and Government:**

Although this is not part of the general education requirements, it is a CSU graduation requirement that you can complete at a community college before you transfer. ETS-2, HIS-6/6H, 7/7H, 31, or 34 may also be used to partially fulfill area 3B or 4. HUM-16 may also be used to partially fulfill area 3B. POL-1/1H may also be used to partially fulfill area 4. ETS/HIS-14 may also be used to partially fulfill area 3B or 4.

**1. U.S. History**

ETS-2 Introduction to Chicano/a Studies (Same as HIS-31)  
ETS-14 African American History I (Same as HIS-14)  
HIS-6 United States History to 1877 or HIS-6H Honors United States History to 1877  
HIS-7 United States History from 1865 or HIS-7H Honors United States History from 1865  
HIS-14 African American History I (Same as ETS-14)  
HIS-31 Introduction to Chicano/a Studies (Same as ETS-2)  
HIS-34 History of Women in America  
HUM-16 Arts and Ideas: American Culture

**2. Constitution and Government**

ETS-21 Latinx Politics (Same as POL-21)  
POL-1 American Politics or POL-1H Honors American Politics  
POL-21 Latinx Politics (Same as ETS-21)

**Note:** Norco College's POL-1/1H or ETS/POL-21 fulfills the CSU graduation requirement in both U.S. government and California state and local government. Students who have completed ETS/POL-23, or who have received a score of 3 or higher on the AP U.S. Government and Politics exam, or who have taken a U.S. government class at an out-of-state institution may have fulfilled the U.S. government requirement but will still need to fulfill the California state and local government in order to graduate from the CSU.

**New CSU GE Ethnic Studies requirement** - Beginning in Fall 21 the CSU has implemented an Ethnic Studies requirement, which is now CSU GE area F. Currently at Norco College ETS/HIS-14, ETS/POL-21, and ETS/POL-23 are approved to satisfy this requirement. See the 21-22 CSU GE pattern and consult with a counselor for complete details.

**IGETC Advisement: Former UC, CSU and students with coursework from other four-year institutions**, including outside the U.S., should consult with a counselor to determine whether they should complete IGETC or the lower-division general education requirements at the campus they plan to attend. For the UC: Students who initially enroll at a UC campus, then leave and attend a California Community College, and subsequently return to the same UC campus, are considered “re-admits” by the UC. Such students cannot use IGETC. However, students who enroll at a UC campus, then leave and attend a California Community College, and subsequently return to a different UC campus may use the IGETC pattern. It is recommended that students meet with a counselor to discuss possible further IGETC limitations.

**Notes:**

1. \* Courses **cannot** be double-counted to satisfy more than one area, even if a course is listed in more than one area. The only exceptions to this are several courses in Area 6A – Language Other Than English, which can also be counted towards area 3B.
2. \*\* UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with a counselor for information on course limitations.
3. A grade of “P” in approved coursework taken as Pass/No Pass through RCCD is acceptable for IGETC certification. It is important to keep in mind that some CSU and UC campuses may have limitations on the number of “Credit/No Credit” (“Pass/No Pass”) courses that may be used to meet degree requirements. The UC system allows a maximum of 14 semester units graded “Pass/No Pass” (Credit/No Credit) basis of the 60 transferable semester units required for admission. There is no system-wide policy for CSU campuses. Therefore, each campus has established its own policy on limitations of courses transferred with grades of “Credit/Pass”.
4. Some of the UC campuses do not accept or recommend IGETC for certain majors, (*i.e.* Engineering, Sciences). Students should consult with a counselor to determine the most appropriate general education pattern for their major and intended transfer institution. For updated information about IGETC limitations visit: <https://admission.universityofcalifornia.edu/admission-requirements/transfer-requirements/general-education-igetc/igetc/campus-guidance.html>
5. It is highly recommended to make an appointment with a counselor to complete a student educational plan (SEP).

**Note - IGETC and IGETC for STEM requirements are subject to change based on the new CSU Ethnic Studies requirement. Updated requirements will be posted as soon as they are available.**

**IGETC for STEM** - Students pursuing certain Associate Degrees for Transfer may be eligible to complete IGETC for STEM, deferring two to three lower-division GE courses until after transfer. IGETC for STEM is applicable only to majors in which the Transfer Model Curriculum explicitly indicates the availability of the option. **At Norco College, currently only ADT’s in Biology, Chemistry, and Environmental Science allow IGETC for STEM.**

**"IGETC for STEM" certification as part of an Associate Degree for Transfer in Biology, Chemistry, or Environmental Science would require:**

**Complete the following courses *before* transfer:**

- All courses in Areas 1, 2, and 5 of the traditional IGETC; and
- One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.

**Complete the following courses *after* transfer:**

- One remaining lower-division general education course in Area 3;\*
- One remaining lower-division general education course in Area 4;\* and
- One course in Area 6 for UC-bound students who have not satisfied it through proficiency.\*

\*These deferred lower division courses must be replaced with calculus and/or science courses required by the major before transfer.

***Please consult with a Norco College counselor to discuss which general education pattern is the best option for you based on your individual major, goals, and transfer institution.***