



NORCO COLLEGE SCHOOL OF Arts & Humanities

Music Industries Studies Class: Live Sound Reinforcement

NORCO
COLLEGE



Catalog Addendum 2019-2020

PROGRAM MODIFICATIONS TO EXISTING DEGREES AND CERTIFICATES

ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER DEGREE(N) NAA616/NAA618 (August 2019 Addendum)

PSY/SOC-48, PSY-50, and SOC-50 were added as elective options to List A. ANT-1L and ANT-16 were added as elective options to List B. The complete list of required courses is below. For additional details and a complete program description, please see the Norco Course Catalog.

Required Courses (18-21 units)		<u>Units</u>
ANT-1*/1H*	Physical Anthropology/Honors	3
ANT-2*/2H*	Cultural Anthropology/Honors	3
ANT-6*	Introduction to Archaeology	3
List A	Select from the list below	6-8
List B	Select from the list below	3-4

List A Select two courses from the following (6-8 units)

ANT-3*	Prehistoric Cultures	3
GEG-1*/1H*	Physical Geography/Honors	3
GEG-2*	Human Geography	3
MAT-12*/12H*	Statistics/Honors	4
OR		
PSY/SOC-48*	Statistics for the Behavioral Sciences	3
PSY-50*	Research Methods in Psychology	4
OR		
SOC-50*	Introduction to Social Research Methods	3

List B Select one to two courses from the following for a minimum of 3 units (3-4 units)

Any course from List A not already used

ANT-1L*	Physical Anthropology Laboratory	1
ANT-4*	Native American Cultures	3
ANT-5*	Cultures of Ancient Mexico	3
ANT-7*	Anthropology of Religion	3
ANT-8*	Language and Culture	3
ANT-10	Forensic Anthropology	3
ANT-16	Field Methods in Archaeology	3

Total Major Units **18-21**

Associate in Arts for Transfer Degree

The Associate in Arts in Anthropology 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 with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER DEGREE(N) NAA754/NAA755 (August 2019 Addendum)

PSY/SOC-48 were added as elective options under List A. ADJ-9, PSY-50, SOC-3, and SOC-50 were added as elective options under List B. The complete list of required courses is below. For additional details and a complete program description, please see the Norco Course Catalog.

Required Courses (18-20 units)		<u>Units</u>
POL 1*/1H*	American Politics/Honors	3
LIST A	Choose from the list below	9-10

LIST B Choose from the list below 6-7

LIST A Choose three courses from the following (9-10 units)

POL 2*	Comparative Politics	3
POL 4*/4H*	Introduction to World Politics/Honors	3
POL 11*	Political Theory	3
MAT 12*/12H*	Statistics/Honors	4
OR		
PSY/SOC-48*	Statistics for the Behavioral Sciences	3

LIST B Choose two courses from the following (6-7 units)

Any course from List A not already used

ADJ-9*	Law in American Society	3
ECO 7*/7H*	Principles of Macroeconomics/Honors	3
HIS 7*/7H*	Political and Social History of the US/Honors	3
POL 5*	The Law and Politics	3
POL 13*	Introduction to American Foreign Policy	3
PSY-50*	Research Methods in Psychology	4
SOC-3*	Social Inequality	3
SOC-50*	Introduction to Social Research Methods	3

*Courses may also be used to fulfill general education requirements for the CSU GE or IGETC pattern, please confer with a counselor.

Associate in Arts for Transfer Degree

The Associate in Arts in Political Science 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.

ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER DEGREE (N)

NAA695/NAA696

(August 2019 Addendum)

PSY/SOC-48 were added as elective options under List A. The complete list of required courses is below. For additional details and a complete program description, please see the Norco Course Catalog.

Required Courses (18-19 units)

	<u>Units</u>	
SOC-1*/1H*	Introduction to Sociology/Honors	3
List A	Select from the list below	6-7
List B	Select from the list below	6
List C	Select from the list below	3

List A Select two courses from the following (6-7 units)

MAT-12*/12H*	Statistics/Honors	4
OR		
PSY/SOC-48*	Statistics for the Behavioral Sciences	3
SOC-2*	American Social Problems	3
SOC-50*	Introduction to Social Research Methods	3

List B Select two courses from the following (6 units)

Any course from List A not already used

SOC-10*	Race and Ethnic Relations	3
SOC-12*	Marriage and Family Relations	3
SOC-20*	Introduction to Criminology	3

List C Select one course from the following (3 units)

Any course from List A or B not already used

SOC-3*	Social Inequality	3
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SOC-15*	Introduction to Women's Studies	3
ANT-2*/2H*	Cultural Anthropology/Honors	3
PSY-1*/1H*	General Psychology/Honors	3
PSY-8*	Introduction to Social Psychology	3

*Courses may also be used to fulfill general education requirements for the CSU GE or IGETC pattern, please confer with a counselor.

Total Major Units **18-19**

Associate in Arts for Transfer Degree

The Associate in Arts in Sociology 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 with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

**CRIME SCENE INVESTIGATION LOCAL CERTIFICATE (NR)
NCE619
(September 2019 Addendum)**

ADJ-12 was added as an elective option alongside ANT-10. The complete list of required courses is below. For additional details and a complete program description, please see the Norco Course Catalog.

Required Courses (15 units)		Units
ADJ-2	Principles and Procedures of the Justice System	3
ADJ-3	Concepts of Criminal Law	3
ADJ-13	Criminal Investigation	3
ADJ-14	Advanced Criminal Investigation	3
Choose one of the following (3 units):		
ADJ-12	Introduction to Criminalistics	3
ANT-10	Forensic Anthropology	3
Total Units		15

NEW PROGRAMS

**CONSTRUCTION MANAGEMENT
NAS906/NAS906B/NAS906C/NCE906
(September 2019 Addendum)**

This program generally prepares individuals to understand the people and principle phases involved in the management of construction projects. This program will introduce the skills required to effectively manage and supervise a construction team. This includes understanding the basics for estimating, scheduling, and controlling costs of a construction project. Completion of this program prepares students for gainful employment as a construction manager, foreman, construction area manager, construction superintendent, or construction project manager.

Program Learning Outcomes:

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

1. Understand the people involved and the principle phases in the design of the construction process.
2. Apply the skills required to effectively manage and supervise a construction management team.
3. Understand the basics for estimating, scheduling, and controlling costs of construction projects.

<u>Required Core Courses (18 units)</u>		<u>Units</u>
CON-62	Blueprint Reading	3
CON-73	Project Planning for Site Construction	3
CON-74	Construction Estimating	3
CON-80	Construction Scheduling	3
ENE-27	Technical Communications	3
MAG-51	Elements of Supervision	3

<u>Electives (6-7 units)</u>		<u>Units</u>
CON-63A	Uniform Building Codes and Operations	3
CON-64	Office Procedure and Field Inspection	3
CON-66	National Electrical Code	3
ELE-77	Electrical Theory	3
ELE-408	Transformer Theory, Leadership, Management, and Test Equipment	3.5
ELE-409	Electrician Specialty Systems	3.5
ELE-424	Intro to Digital Electronics & Signaling Devices	3.5
ELE-425	Management/Alarms/Codes/Circuits	3.5

Required Major Total **24-25 Units**

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

**ACCOUNTING BASICS FOR SMALL BUSINESS NON-CREDIT CERTIFICATE OF COMPLETION
NCC8009
(September 2019 Addendum)**

The Accounting Basics for Small Business Certificate provides students with an understanding of basic accounting, including QuickBooks procedures. The skills and knowledge covered in this program will enable students to get a job in the field or advance in their current career. This certificate also serves as a gateway into other noncredit and credit programs.

Program Learning Outcomes:

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

1. Understand the basic components of the primary financial statements - balance sheet, income statement, and cash flow statement.
2. Understand the interaction between different statements and individual accounting entries.
3. Apply these basic accounting concepts to a small business.
4. Use the knowledge from this class as a foundation for working with an accounting software package.

<u>Required Courses (48 hours)</u>		<u>Hours</u>
ACC-801	Setting Up QuickBooks for Small Business	16
ACC-802	Monthly Procedures Using QuickBooks	16
ACC-803	Year End Procedures with QuickBooks	16

Total Hours **48 Hours**

NEW CREDIT COURSES AND CREDIT COURSE MODIFICATIONS

ACC-200 - Accounting Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

ADJ-200 - Administration of Justice Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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ARE-200 - Architecture Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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ART-200 - Art Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

BUS-200 - Business Administration Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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CIS-200 - Computer Information Systems Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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CON-200 - Construction Technology Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

DFT-200 - Drafting Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

EAR-200 - Early Childhood Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

ENE-200 - Engineering Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

GAM-200 – Simulation and Game Development Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

JOU-200 - Journalism Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student

in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

KIN-200 - Kinesiology Work Experience

1-2-3-4

CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.

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LOT-5 - Fundamentals of Light

3

CSU

Prerequisite: None

Advisory: ENE-60 or ENE-62

Introduces the fundamental properties of light, including its interaction with and generation from materials. Optical hardware is used in lecture demonstrations and laboratory experiments to show how light can be controlled. Essential components of optical systems are studied, including lenses, mirrors, prisms, windows, sources, detectors, optoelectronics, polarizers, fibers, and gratings. Students will gain hands-on experience with industrial hardware and tools as they construct basic optical component test setups and systems in the laboratory. 36 hours lecture and 54 hours laboratory. (August 2019 Addendum)

LOT-15 - Fundamentals of Photonics

3

CSU

Prerequisite: LOT-5

Covers the most important tools that are used when working with light, from lasers and other light sources to cameras and sensors. Photonic devices are used in lecture demonstrations and laboratory experiments to show how light can be generated, manipulated, and captured. Hardware is broken down to its constituent components; lasers are reduced to gain media, pump sources, and mirror cavities; cameras are dissected down to their bare chemistry. Students will gain hands-on experience with industrial hardware and tools in the laboratory. 36 hours lecture and 54 hours laboratory. (August 2019 Addendum)

LOT-25 - Quality Assurance for Precision Optics

4

CSU

Prerequisite: None

Addresses the basics of specification, manufacturing, and assessment of precision optics. It presents an introduction to quality assurance (QA) practices required to identify, inspect, and measure optical components. Materials and tools found in an industrial optics fabrication and inspection shop are used in lecture and demonstrations and laboratory experiments. Students will gain hands-on experience with these industrial materials and QA tools in the laboratory. 54 hours lecture and 54 hours laboratory. (August 2019 Addendum)

LOT-35 - Optical Metrology and Interferometry**3**

CSU

Prerequisite: None

A hands-on laboratory course that will detail the measurement techniques required to ensure that a fabricated assembly or system meets its procurement specifications. Covers the design and application of optical metrology instrumentation such as interferometers and modulation transfer function measurement systems. Emphasis on test applications that are required in quality assurance for optical engineering and manufacturing. Students will gain hands-on experience in the laboratory with industrial hardware and tools.

(August 2019 Addendum)

MAG-200 - Management Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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(August 2019 Addendum)

MAN-200 - Manufacturing Technology Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester.

(August 2019 Addendum)

MIS-200 - Music Industry Studies Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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(August 2019 Addendum)

MKT-200 - Marketing Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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MUS-200 - Music Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

RLE-200 - Real Estate Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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SCA-200 - Supply Chain Automation Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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SCT-200 - Supply Chain Technology Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

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THE-200 - Theatre Arts Work Experience**1-2-3-4**

CSU

*Prerequisite: None**Limitation on Enrollment (e.g. Performance tryout or audition): Students should have paid or voluntary employment.*

Work Experience is designed to coordinate the student's on-the-job training with workplace skills designed to assist the student in developing successful professional skills. Each student will establish measurable learning objectives appropriate for their job and discipline. Students may earn up to four (4) units each semester, for a maximum of 16 units of work experience total. 60 hours of volunteer work or 75 hours of paid work during the semester are required for each unit. No more than 20 hours per week, out of the 60 or 75 requirement, may be applied toward the work requirement. The course consists of an 18 hours of orientation/professional skills development and 60 hours of volunteer work experience per unit with a maximum of 240 for four units per semester OR 75 hours of paid work experience per unit, with a maximum of 300 for four units per semester. (August 2019 Addendum)

NEW NON-CREDIT COURSES

ACC-801 - Setting up Quickbooks for Small Business**0***Prerequisite: None*

Learn the basics of small business bookkeeping using QuickBooks, financial reporting, and how to analyze and record financial transactions. Discusses accounts receivable, accounts payable, payroll procedures, sales taxes and common banking activities. 16 hours lecture. (Pass/No Pass only) (August 2019 Addendum)

ACC-802 - Monthly Procedures using QuickBooks**0***Prerequisite: None*

Develop and apply monthly procedures used in accounting for small business. Continue to build small business accounting knowledge, gain practical experience working with day to day transactions. Reconcile balance sheet accounts and examine/audit income statement accounts on a monthly basis. Prepare adjusting journal entries. Prepare financial statements. 16 hours lecture. (Pass/No Pass only) (August 2019 Addendum)

ACC-803 - Year End Procedures with Quickbooks**0***Prerequisite: None*

Develop and apply year end procedures used in accounting for small business using QuickBooks. Prepare closing journal entries for year end. Prepare reports for tax accountants. Purge files and prepare for the new year. 16 hours lecture. (Pass/No Pass only)

(August 2019 Addendum)

ELE-810 - Survey of Electronics**0***Prerequisite: None*

Basic electronic theory featuring electron-flow, Ohm's, Watt's, and Kirchoff's Laws, analog DC and AC devices, circuits, parameters and equations, diodes, transistors, thyristors, digital logic, integrated circuits, power supplies, amplifiers, oscillators, with laboratory test and measurement equipment. 63 hours lecture and 27 hours laboratory. (Pass/No Pass or Letter Grade)

(August 2019 Addendum)

ELE-855 - Occupational Safety and Health Administration (OSHA) Standards for General Industry**0***Prerequisite: None*

Covers OSHA policies, procedures, and standards, as well as safety for general industry and health principles. Topics include scope and application of the OSHA general industry standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion, the student will receive either an OSHA 10 hour general industry or construction industry training completion card. 18 hours lecture. (Pass/No Pass or Not graded)

(August 2019 Addendum)

ELE-874 - Industrial Wiring and Controls**0***Prerequisite: None*

Industrial controls and electrical wiring of modern facilities, manufacturing, or warehousing. Included will be production equipment, conveyor systems, hydraulic and pneumatic controls, power distribution, blueprint reading, electrical control wiring, PLC (programmable logic controller) control wiring, VFD (variable frequency drives) wiring and programming. 54 hours lecture and 54 hours laboratory. (Pass/No Pass or Letter Grade)

(August 2019 Addendum)

ENE-862 - Math for Automated Systems**0***Prerequisite: None*

Course concepts from arithmetic, algebra, geometry and scientific notation, extended and applied to problems in automation technology from electrical and mechanical engineering, including metal work, welding, and building energy systems. 54 hours lecture. (Pass/No Pass or Letter Grade)

(August 2019 Addendum)

MAN-856 - CNC Machine Set-Up and Operation**0***Prerequisite: None*

Fundamental skills related to the setup and operation of CNC (Computer Numerically Control) machine tools. Students will set up and operate CNC machine tools exposing them to CNC controllers and some CNC manual programming. Students will gain hands-on experience with CNC machine tools. 54 hours lecture and 54 hours laboratory. (Pass/ No Pass or Letter Grade)

(August 2019 Addendum)

MAN-857 - CNC Program Writing

0

Prerequisite: None

Introduction to manual CNC program writing. This course includes the Cartesian coordinate system, absolute/incremental programming, circular interpolation, cutter radius compensation, canned cycles, and other programming techniques related to CNC machine tools. Students will gain hands-on experience with CNC machine tools. 36 hours lecture and 54 hours laboratory. (Pass/No Pass or Letter Grade)
(August 2019 Addendum)

INFORMATIONAL CORRECTIONS

Course Corrections

ART-5

(August 2019 Addendum)

The incorrect title and description for ART-5 are listed in the 2019-2020 catalog. The correct title and description are below.

ART-5

History of Non-Western Art

3 Units

UC, CSU

Prerequisite: None

Advisory: ENG-1A and college level reading recommended

Description: An introductory survey of the arts of non-European cultures. History, form, functions, and aesthetics will be discussed in an overview of the arts of the Americas (Pre-Columbian and North American Indian), Oceania, Islamic, Sub-Saharan Africa, Southeast Asia, China, and Japan. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

BIO-55

(September 2019 Addendum)

The prerequisites for this courses were missing the option of CHE-3. The complete course description with corrected prerequisites is below.

BIO-55

Microbiology (formerly MIC-1)

4 Units

UC, CSU

Prerequisite: CHE-2A or CHE-2B or CHE-3, and BIO-1 or BIO-1H or BIO-50A or BIO-60 or BIO-60H

Description: General characteristics of microorganisms with emphasis on morphology, growth, control, metabolism and reproduction; their role in disease, body defenses, and application to the biomedical field. 54 hours lecture and 54 hours laboratory.

EAR-35

(September 2019 Addendum)

EAR-35 was erroneously included in the catalog and is no longer offered at Norco College.

ELE-91

(November 2019 Addendum)

The prerequisite for this course was missing the requirement of ELE-77. The complete course description with corrected prerequisites is below.

ELE-91

Fundamentals of Solar Energy

3 Units

(Same as ELC-91)

CSU

Prerequisite: ELC/ELE-77

Description: An introduction for students interested in a career in the solar industry. The fundamental principles and functions of photovoltaic industry will be introduced along with the planning, installation and maintenance of all necessary components for a photovoltaic system. The transmission and distribution of electric power will be reviewed and basic concepts of electricity, circuit identification, functions and operations of components will be surveyed. Basic Electrical Safety will also be covered. 36 hours lecture; 54 hours lab. (Letter Grade, or Pass/No Pass option.)

ENG-35

(August 2019 Addendum)

The title for this course was incorrect in the catalog and should be listed as “Women in Literature.”

HIS-7

(August 2019 Addendum)

The incorrect description was listed for this course. The correct information is listed below.

HIS-7

United States History from 1865

3 Units

(C-ID HIST 140)

UC, CSU

Prerequisite: None

Advisory: REA-83 or ENG-50 or ENG-80 or qualification for ENG 1A.

Political, social and economic development of the United States from 1865 to the present; the evolution of American thought and institution; principles of national, state, and local government. Students may not receive credit for both HIS-7 and HIS-7H. 54 hours lecture.

HIS-7H

(August 2019 Addendum)

The incorrect description was listed for this course. The correct information is listed below.

HIS-7H

United States History from 1865

3 Units

(C-ID HIST 140)

UC, CSU

Prerequisite: None

Limitation on Enrollment (e.g. Performance tryout or audition): Enrollment in the Honors Program.

Advisory: REA-83 or ENG-50 or ENG-80 or qualification for ENG 1A.

Political, social and economic development of the United States from 1865 to the present; the evolution of American thought and institution; principles of national, state, and local government. This 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 HIS-7 and HIS-7H 54 hours lecture.

MAT-25

(October 2019 Addendum)

The incorrect description and prerequisites were listed for MAT-25. The correct information is below.

MAT-25

Mathematics for the Liberal Arts Student 3 Units

UC, CSU

Prerequisite: MAT-35 or MAT-42 or qualifying placement level.

A college level survey course of selected topics from the history and development of mathematics, patterns and inductive reasoning, set theory and deductive reasoning, geometry, probability, statistics, and problem solving. You may cover 2 of the following topics: dimensional analysis, geometry, mathematics of different bases, or development of numerical systems from ancient cultures. It is designed for students majoring in liberal arts, education, or communication. Calculators or computers may be used for selected topics. 54 hours of lecture.

REA-83

(August 2019 Addendum)

The incorrect description and prerequisites were listed for REA-83. The correct information is below.

REA-83

3 units

College Reading and Thinking

Prerequisite: None

Description: Instruction in reading academic materials. 54 hours lecture (Letter Grade or Pass/No Pass option.)

Program Corrections

Associate in Arts in Music for Transfer Degree (NAA704/NAA705)

(August 2019 Addendum)

MUS-85 was incorrectly listed as an ensemble option in the Associate of Arts in Music for Transfer Degree. The program's required courses are below. For additional details and a complete program description, please refer to Norco Course Catalog.

<u>Required Courses (24 Units)</u>		<u>Units</u>
MUS-3	Fundamentals of Music	4
MUS-4	Music Theory I	4
MUS-5	Music Theory II	4
MUS-6	Music Theory III	4
Applied Music: 1 unit per semester for a total of 4 units from the following:		4
MUS-87	Applied Music Training	1 unit
Ensemble: 1 unit per semester for a total of 4 units from among the following:		4
MUS-31	College Choir,	1 unit
MUS-70	Guitar Lab Ensemble,	1 unit
MUS-P70	Guitar Lab Ensemble II,	1 unit
MUS-71	College Chorus,	1 unit

Associate in Science in Game Design (NAS685/NAS685B/NAS685C/NCE685)

(September 2019 Addendum)

The units for this program were incorrectly listed as 33 and should be listed as 30. For additional details and a complete program description, please refer to the Norco Course Catalog.

Associate in Science in Supply Chain Automation (NAS924/NAS924B/NAS924C/NCE924)

(October 2019 Addendum)

The code for this program was erroneously listed as NAS408, NAS408B, NAS408C, and NCE408. The correct program codes are listed above. For additional details and a complete program description, please refer to the course catalog.

Informational Corrections

Assessment and Placement

(September 2019 Addendum)

The catalog incorrectly states in the Course Prerequisites and Corequisites section (page 14) that the Accuplacer test is used as a form of assessment and placement. As of October 1st, 2018 the Accuplacer test was discontinued by the college for assessment and placement purposes. For more information on Norco College's policy on Assessment and Placement, please see the Matriculation section on page 6 of the catalog.

Credit Courses

(August 2019 Addendum)

The Credit Courses paragraph on page 123 of the catalog contained a duplicated sentence. The paragraph should read as follows:

Credit courses can be degree or non-degree applicable. Unlike noncredit courses, they do carry units based on the number of hours of lecture, lab, or both that are required in the official course outline for the course. These courses are in a wide variety of areas; each requires critical thinking, reading and writing, and assignments that are completed

outside of class that require the student to study and work independently. Credit courses are approved by the district and college Curriculum Committees and the Board of Trustees.

Military and Veteran Student and Family Member Educational Access

(October 2019 Addendum)

Military and veteran students and family members who provide a certificate of eligibility or valid VAF 28-1905 and who intend to utilize educational benefits provided by the Servicemen’s Readjustment Act of 1944 (G.I. Bill) or Vocational Rehabilitation and Employment (VR&E) benefits, and who meet prerequisite and enrollment requirements, may enroll in RCCD courses and programs according to established matriculation and registration criteria. In cases where payment to RCCD is delayed from the Veterans’ Administration students will maintain access to college and district facilities, and will not be assessed late fees or penalties, nor be dropped from courses, or required to borrow additional funds to pay course or college fees.

FEE SCHEDULE

Any fee may change without notice subject to changes issued by the State of California Legislature and/or changes in RCCD Board policies. In the event of a fee increase, please refer to the Admissions and Records website for updates on payment deadlines.

		Winter 2020	Spring 2020	Summer 2020	Fall 2020
Enrollment Fee		\$46 per unit	\$46 per unit	\$46 per unit	\$46 per unit
Nonresident Surcharge <i>(plus enrollment fee)</i>		\$265 per unit	\$265 per unit	\$290 per unit	\$290 per unit
Out of Country Surcharge <i>(plus enrollment fee and non-resident surcharge)</i> <i>Non-refundable</i>		\$12 per unit	\$12 per unit	\$17 per unit	\$17 per unit
<u>Health Services Fee*</u> <i>Non-refundable if student drops all classes after the refund deadline.</i>		\$17	\$20	\$17	\$20
Student Services Fee <i>Can be waived if Student Services Fee Waiver is submitted to Student Activities office before last day to add course.</i>		\$10	\$30	\$10	\$30
Parking Permit** <i>Parking in student lots only. Non-refundable if student drops all classes after the refund deadline. If eligible for a refund student must return the permit to Parking Services immediately.</i>	Auto:	\$0	\$50 or \$30 (CCPG)	\$25	\$50 or \$30 (CCPG)
	Motorcycle:	\$0	\$15	\$15	\$15

Transportation Fee* <i>Allows the use of the College ID Card as an RTA bus pass. See College ID Card for more information.</i>	n/a	\$5.50 (over 6 units) or \$5 (6 units & under)	\$5.50 (over 6 units) or \$5 (6 units & under)	\$5.50 (over 6 units) or \$5 (6 units & under)
Audit Fee	\$15 per unit	\$15 per unit	\$15 per unit	\$15 per unit
KIN-30*** First Aid & CPR Fees	\$25	\$25	\$25	\$25
KIN-42*** Life Guard & Water Safety Instructor Certification	\$82.45	\$82.45	\$82.45	\$82.45
Transcripts	Refer to Transcript Requests for pricing.			
Unofficial Transcript <i>Unofficial transcripts can be accessed free of charge through MyPortal.</i>	\$1	\$1	\$1	\$1
Non-Sufficient Funds/Stop Payment Fee	\$20	\$20	\$20	\$20